Appendix A: Health and Safety Checklists

123638

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Catie Mino	Date: 6/25/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Mino		6/25/12			
M Carpio	M Carpio	6/25/12			
Joan Price		6/25/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

set up for drilling activities
begin coring through slab at each location

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological
☐ Other (specify):

drill rig safety
thunderstorms
mercury

Place a copy in the project file.

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Mereco	Project No:	
Project/Site Location:	Colonie, NY		
Employee Completing Form (*print and sign*):	[illegible]	Date:	6/26/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

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Print	Sign	Date	Print	Sign	Date
Cate Mino	[illegible]	6/26/12			
JoAnn Price		6/26/12			
M Carne		6/26/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

geoprobe boring

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

drill rig safety
slips trips falls
mercury hazards
thunderstorms

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*):	**Date:** 6/27/12

Employee Acknowledgement:

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Print	Sign	Date	Print	Sign	Date
Catie Mino	[illegible]	6/27/12			
Joan Price	[illegible]	6/27/12			
[illegible] Carnie	[illegible]	6/27/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

mercury
drill rig safety
slips trips falls
thunderstorms

Place a copy in the project file.

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Brown AND Caldwell

DAILY TAILGATE MEETING FOR

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Catie Miller	Date: 6/28/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Miller		6/28/12			
Julian Price	J. Price	6/28/12			
M Carrie	M Carrie	6/28/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

HEAT
Mercury
Drilling Safety
Slips trips falls

Place a copy in the project file.

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Mereco	**Project No:**	
Project/Site Location:	Colonie, NY		
Employee Completing Form (*print and sign*):	Catie Mino	**Date:**	6/29/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Mino		6/29/12			
JoAAN Price		6/29/12			
[illegible]	[illegible]	6/29/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

Geoprobe borings

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Heat
Mercury
Slips trips falls
drill rig Safety

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form *(print and sign)*: Catie Mino	**Date:** 7/9/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Mino		7/9/12			
[illegible]	[illegible]	7/9/12			
Matt Carnie	Matt Carnie	7/9/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

Geoprobe water sampling.

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

heat
drill rig safety
mercury
slips, trips, falls

Place a copy in the project file.

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Merteo	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form *(print and sign)*: Catie Mino CM	**Date:** 7/10/12

Employee Acknowledgement:

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Print	Sign	Date	Print	Sign	Date
Catie Mino	CM	7/10/12			
[illegible]	[illegible]	7/10/12			
M Carnie	M Carnie	7/10/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

geoprobe GW sampling.

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury | Mercury vapors
heat
slips trips falls
drilling safety | PPE

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form *(print and sign)*: Katie Mino	**Date:** 7/11/12

Employee Acknowledgement:

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Print	Sign	Date	Print	Sign	Date
Katie Mino		7/11/12			
Jolaan Price		7/11/12			
M Carnie		7/11/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

geoprobe GW Samples

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

heat
drilling safety
slips trips falls
Mercury

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Mereco	**Project No:**	
Project/Site Location:	Colonie, NY		
Employee Completing Form (*print and sign*):	Catie Mino CM	**Date:**	7/12/12

Employee Acknowledgement:

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Print	Sign	Date	Print	Sign	Date
Catie Mino	CM	7/12/12			
Solange Price	SPrice	7/12/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

geoprobe GW samples

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Heat
Mercury
Driving safety
Slips trips falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Katie Mino	**Date:** 7/13/12

Employee Acknowledgement:

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Print	Sign	Date	Print	Sign	Date
Katie Mino		7/13/12			
M. Carnie	M. Carnie	7/13/12			
Joshua Price	J. Price	7/13/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

geoprobe GW samples

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

heat
mercury
drill rig safety
slips trips falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Mereco	**Project No:**	
Project/Site Location:	Colonie, NY		
Employee Completing Form *(print and sign)*:	Cutie Mino	**Date:**	7/16/12

Employee Acknowledgement:

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Print	Sign	Date	Print	Sign	Date
Cutie Mino	CM	7/16/12			
D. Carne	D. Carne	7/16/12			
J. Leah Price	J. Price	7/16/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

geoprobe GW samples

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

heat
mercury
driving safety
slips trips falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Mereco	**Project No:**	
Project/Site Location:	Colonie, NY		
Employee Completing Form (*print and sign*):	Catie Mino	**Date:**	7/17/12

Employee Acknowledgement:

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Print	Sign	Date	Print	Sign	Date
Catie Mino	CM	7/17/12			
M Carnie	M Carnie	7/17/12			
Jolaan Price	J Price	7/17/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

groundwater
geoprobe samples

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

heat
mercury
drilling safety
slips trips falls
PPE

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	**Project No:**
Project/Site Location: Colonie NY	
Employee Completing Form *(print and sign)*: Catie Mino	**Date:** 7/18/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Mino	[illegible]	7/18/12			
Carrie	[illegible]	7/18/12			
Brian Price	[illegible]	7/18/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

geoprobe GW samples.

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

heat
mercury
drill rig safety
slips trip falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Cattie Mino	Date: 7/25/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Cattie Mino	CM	7/25/12			
[illegible]	[illegible]	7/25/12			
Justin Bailey	[illegible]	7/25/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

Saw cutting locations

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
equipment safety
heat.

Place a copy in the project file.

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Mereco	Project No:	
Project/Site Location:	Colonie, NY		
Employee Completing Form (*print and sign*):	Catie Mino	Date:	7/26/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Mino		7/26/12			
[illegible]		7/26/12			
Justin Bailey		7/26/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW drilling

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

weather
mercury
slips trips falls

Place a copy in the project file.

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Catie Mino	Date: 7/27/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Mino		7/27/12			
Joan Price	J. Price	7/27/12			
Justin Bailey	Justin Bailey	7/27/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW drilling

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
weather
drill rig safety
slips trips falls

Place a copy in the project file.

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Merello	Project No:	
Project/Site Location:	Colonie NY		
Employee Completing Form (*print and sign*):	Catie Mino	Date:	7/30/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Mino		7/30/12			
M Marshall		7/30/12			
Matthew Carnie		7/30/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW installing

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
drilling safety
weather
slips trips falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Mereco	**Project No:**	
Project/Site Location:	Colonie NY		
Employee Completing Form (*print and sign*):	Catie Mino CM	**Date:**	7/31/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Mino	CM	7/31/12			
M Mahall		7/31/12			
Matt Carrie	M Carrie	7/31/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW install

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
Drill rig safety
weather
slips trips falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	**Project No:**
Project/Site Location: Colonie NY	
Employee Completing Form *(print and sign)*: Carie Mino CM	**Date:** 8/1/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Carie Mino	CM	8/1/12			
M Matalas		8/1/12			
Matt Carrie	M Carrie	8/1/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW Install

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
Driving safety
weather
slips trips falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	**Project No:**
Project/Site Location: Colonie NY	
Employee Completing Form *(print and sign)*: Catie Mino	**Date:** 8/2/12

Employee Acknowledgement:

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Print	Sign	Date	Print	Sign	Date
Catie Mino		8/2/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW install

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
Drilling safety
weather
slips trips falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Mereco	**Project No:**	
Project/Site Location:	Colonie, NY		
Employee Completing Form (*print and sign*):	Catie Mino CM	**Date:**	8/3/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Mino	CM	8/3/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW install

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
Drilling safety
weather
slips trips falls.

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie NY	
Employee Completing Form (*print and sign*): Catie Mino	Date: 8/6/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Catie Mino		8/6/12			
J Dee		8/6/12			
JM Carnie		8/6/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW install

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
Drilling Safety
Weather
Slips trips falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie NY	
Employee Completing Form (*print and sign*): Catie Mino CM	Date: 8/7/12

Employee Acknowledgement:

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Print	Sign	Date	Print	Sign	Date
Catie Mino	CM	8/7/12			
Jolene Price		8/7/12			
M Carnie	M Carnie	8/7/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW install
be nice

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☑ Physical ☑ Natural Phenomena ☑ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
weather
slips trips falls
equipment safety

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Mereco	**Project No:**	
Project/Site Location:	Colonie NY		
Employee Completing Form *(print and sign)*:	Catie Mino CM	**Date:**	8/8/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

Subcontractors are responsible for developing, maintaining, and implementing their own health and safety programs, policies, procedures and equipment as necessary to protect their workers, and others, from their activities. Subcontractors shall operate equipment in accordance with their standard operating procedures as well as manufacturer's specifications. Any project monitoring activities conducted by BC at the Site shall not in any way relieve subcontractors of their critical obligation to monitor their operations and employees for the determination of exposure to hazards that may be present at the Site and to provide required guidance and protection. If requested, subcontractors will provide BC with a copy of their own H&S Plan for this project or other health and safety program documents for review.

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Print	Sign	Date	Print	Sign	Date
Catie Mino	CM	8/8/12			
Jolene Price		8/8/12			
M Carrie	M Carrie	8/8/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW Install

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☐ Natural Phenomena ☐ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Memory
Driving Safety
weather
Slips trips falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Merco	Project No:
Project/Site Location: Colonie NY	
Employee Completing Form (*print and sign*): Cartie Mino	Date: 8/9/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Cartie Mino		8/9/12			
[illegible]		8/9/12			
[illegible] Carnie		8/9/12			
Brent [illegible]		8/9/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW Install

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
Drilling Safety
Weather
Slips trips falls

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site:	Mereco	**Project No:**	
Project/Site Location:	Colonie NY		
Employee Completing Form *(print and sign)*:	Catie Mino CM	**Date:**	8/10/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

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Print	Sign	Date	Print	Sign	Date
Catie Mino	CM	8/10/12			
Brit Taylor	[illegible]	8/10/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☒ Physical ☒ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Mercury
Drill rig safety
slips trips falls
weather / storms

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Merco	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Brian Taylor	**Date:** 8/13/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Brian Taylor		8/13/12			
Matt Caine		8/13/12			
John W		8/13/12			
		8/13/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW- Install

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☐ Physical ☐ Natural Phenomena ☒ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Slip Trip Fall

Potential Contamination

Heat stress

Working Around Heavy Machine

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Merco	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Brian Taylor	**Date:** 8/14/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Brian Taylor		8/14/12			
Matt Cargie		8/14/12			
[illegible]		8/14/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW- Install

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☑ Physical ☐ Natural Phenomena ☐ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Slips Trips and Falls
Hot Work
Potential Contamination
Working Around Heavy Machinery

Place a copy in the project file.

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mercury Refining	**Project No:**
Project/Site Location: Colonie NY	
Employee Completing Form (*print and sign*): Brian Taylor [signature]	**Date:** 8/15/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Brian Taylor	[signature]	8/15/12			
LAYNE PECH	[signature]	8/15/12			
Matt Carrie	[signature]	8/15/12			
[signature]		8/15/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW Install
MW Development

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☑ Physical ☑ Natural Phenomena ☑ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Slips Trips and falls
Heat stress
Potential Contamination
Working Around Heavy Machinery

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Merco	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Brian Taylor	**Date:** 8/16/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Brian Taylor		8/16/12			
LAYNE PECH	Layne Pech	8/16/12			
Matt Cassie		8/16/12			
[illegible]		8/16/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW Install
MW Development

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☑ Physical ☑ Natural Phenomena ☑ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Slips Trips and Falls
Working Around Heavy Machinery
Potential Contamination
Heat stress

Place a copy in the project file.

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mercury Refining	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Brian Taylor [signature]	**Date:** 8/12/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Brian Taylor	[signature]	8/12/12			
LAYNE PECH	[signature]	8/12/12			
Matt Garnie	[signature]	8/12/12			
[signature]		8/12/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW Install and Development

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☑ Physical ☑ Natural Phenomena ☐ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Heat stress

Working Around Heavy Machinery

Slips Trips and Falls

Potential Contamination

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mercury Refining	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Brian Taylor	**Date:** 8/20/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Brian Taylor		8/20/12			
[illegible]		8/20/12			
Matt Carnie	M Carnie	8/20/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

MW Install
MW Development

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☑ Physical ☑ Natural Phenomena ☑ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Heat stress
Slips Trips and Falls
Working Around Heavy Machinery
Potential Contamination

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mercury Refining	**Project No:**
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Brian Taylor	**Date:** 8/21/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Brian Taylor	[illegible]	8/21/12			
[illegible]	[illegible]	8/21/12			
Matt Carnie	[illegible]	8/21/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

new Development
Pad construction
clean up

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☐ Physical ☑ Natural Phenomena ☑ Chemical ☐ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Slips Trips and Falls
Heat stress
Pinch Points

Place a copy in the project file.

HS—15 REV. 01/2011

Brown AND Caldwell

DAILY TAILGATE MEETING FORM

Name of Project/Site: Mereco	**Project No:** 142324
Project/Site Location: Colonie, NY	
Employee Completing Form (*print and sign*): Brian Taylor	**Date:** 9/10 - 9/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

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Print	Sign	Date	Print	Sign	Date
Brian Taylor		9/10/12			
Adam Gutta		9/10/12			
Brian Taylor		9/11/12			
Adam Gutta		9/11/12			

Plan of the Day

(Describe the activities that are planned to be performed today)

Water levels
GW Sampling
Pump out Trench

Potential Hazards and Topics Discussed

(Describe the potential hazards and controls that may be associated with planned activities)

☑ Physical ☑ Natural Phenomena ☑ Chemical ☑ Electrical ☐ Biological ☐ Radiological

☐ Other (specify):

Pump Connection
Slip Trip Falls
Exposure from splashing Chem
Driving Around Site

Place a copy in the project file.

Brown AND Caldwell

Site Safety Checklist

Page ____ of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie NY	
Employee Completing Checklist: (Print and Sign): Catie Mino CM	Date: 6/25/12

Yes	No	N/A	
☑	☐	☐	Written Health and Safety (H&S) Plan is on site?
☐	☐	☑	Addenda to the H&S Plan are documented on site?
☑	☐	☐	H&S Plan information matches conditions/activities at the site?
☑	☐	☐	H&S Plan read/signed by all site personnel, including visitors?
☑	☐	☐	Daily tailgate H&S meetings have been held/documented?
☑	☐	☐	Site personnel have required training and medical?
☑	☐	☐	Air monitoring is performed/documented per the H&S Plan?
☑	☐	☐	Air monitoring equipment has been calibrated daily?
☑	☐	☐	Site zones are set up and observed where appropriate?
☑	☐	☐	Access to the work area limited to authorized personnel?
☑	☐	☐	Decontamination procedures followed/match the H&S Plan?
☑	☐	☐	Decontamination stations (incl. hand/face wash) are set up and used?
☑	☐	☐	PPE used matches H&S Plan requirements?
☑	☐	☐	Hearing protection used where appropriate?

Yes	No	N/A	
☑	☐	☐	Respirators are available, properly cleaned, and stored?
☑	☐	☐	Overhead utilities do not present a hazard to equipt./personnel?
☐	☐	☑	Traffic control measures have been implemented?
☐	☐	☑	Trenches and excavations are safe for entry?
☐	☐	☑	Soil Spoils are at least 2 feet from the edge of the excavation?
☑	☐	☐	Emergency/FA equipt. is on site as described in the H&S Plan?
☑	☐	☐	Drinking water is readily available?
☑	☐	☐	Phone is readily available for emergency use?
☑	☐	☐	Utility locator has cleared subject locations?
☑	☐	☐	Proper drum and material handling techniques are used?
☑	☐	☐	Waste containers/drums are labeled appropriately?
☐	☐	☑	Ext. cords are grounded/protected from water/vehicle traffic?
☑	☐	☐	Tools and equipment are in good working order?
☐	☐	☑	GFCIs used for portable electrical tools and equipment?

Notes

(All "no" answers must be addressed and corrected immediately. Note additional health and safety observations here):

Brown AND Caldwell

Site Safety Checklist

Page ____ of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mercco	Project No: 142324
Project/Site Location: Colonie NY	
Employee Completing Checklist: (Print and Sign): Brit Taylor	Date: 9/10/12

Yes	No	N/A	
☑	☑	☐	Written Health and Safety (H&S) Plan is on site?
☑	☑	☐	Addenda to the H&S Plan are documented on site?
☑	☑	☐	H&S Plan information matches conditions/activities at the site?
☑	☑	☐	H&S Plan read/signed by all site personnel, including visitors?
☑	☑	☐	Daily tailgate H&S meetings have been held/documented?
☑	☐	☐	Site personnel have required training and medical?
☐	☐	☑	Air monitoring is performed/documented per the H&S Plan?
☐	☐	☑	Air monitoring equipment has been calibrated daily?
☐	☑	☑	Site zones are set up and observed where appropriate?
☑	☑	☐	Access to the work area limited to authorized personnel?
☑	☑	☐	Decontamination procedures followed/match the H&S Plan?
☑	☐	☐	Decontamination stations (incl. hand/face wash) are set up and used?
☑	☑	☐	PPE used matches H&S Plan requirements?
☑	☐	☐	Hearing protection used where appropriate?

Yes	No	N/A	
☑	☑	☐	Respirators are available, properly cleaned, and stored?
☑	☐	☐	Overhead utilities do not present a hazard to equipt./personnel?
☐	☐	☑	Traffic control measures have been implemented?
☐	☐	☑	Trenches and excavations are safe for entry?
☐	☑	☑	Soil Spoils are at least 2 feet from the edge of the excavation?
☑	☑	☐	Emergency/FA equipt. is on site as described in the H&S Plan?
☑	☑	☐	Drinking water is readily available?
☑	☐	☐	Phone is readily available for emergency use?
☐	☐	☑	Utility locator has cleared subject locations?
☑	☑	☐	Proper drum and material handling techniques are used?
☑	☑	☐	Waste containers/drums are labeled appropriately?
☑	☑	☐	Ext. cords are grounded/protected from water/vehicle traffic?
☑	☐	☐	Tools and equipment are in good working order?
☑	☐	☐	GFCIs used for portable electrical tools and equipment?

Notes

(All "no" answers must be addressed and corrected immediately. Note additional health and safety observations here):

Brown AND Caldwell

H&S Plan Acknowledgement Form

Page ____ of ____

Instructions: Complete this form immediately prior to project start or as new personnel join the project.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Briefing: (Print and Sign): Catie Mino	Date: 6/25/12

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Health and Safety (H&S) Plan and understand the potential hazards/controls for the work to be performed.

Important Notice to Subcontractor(s):

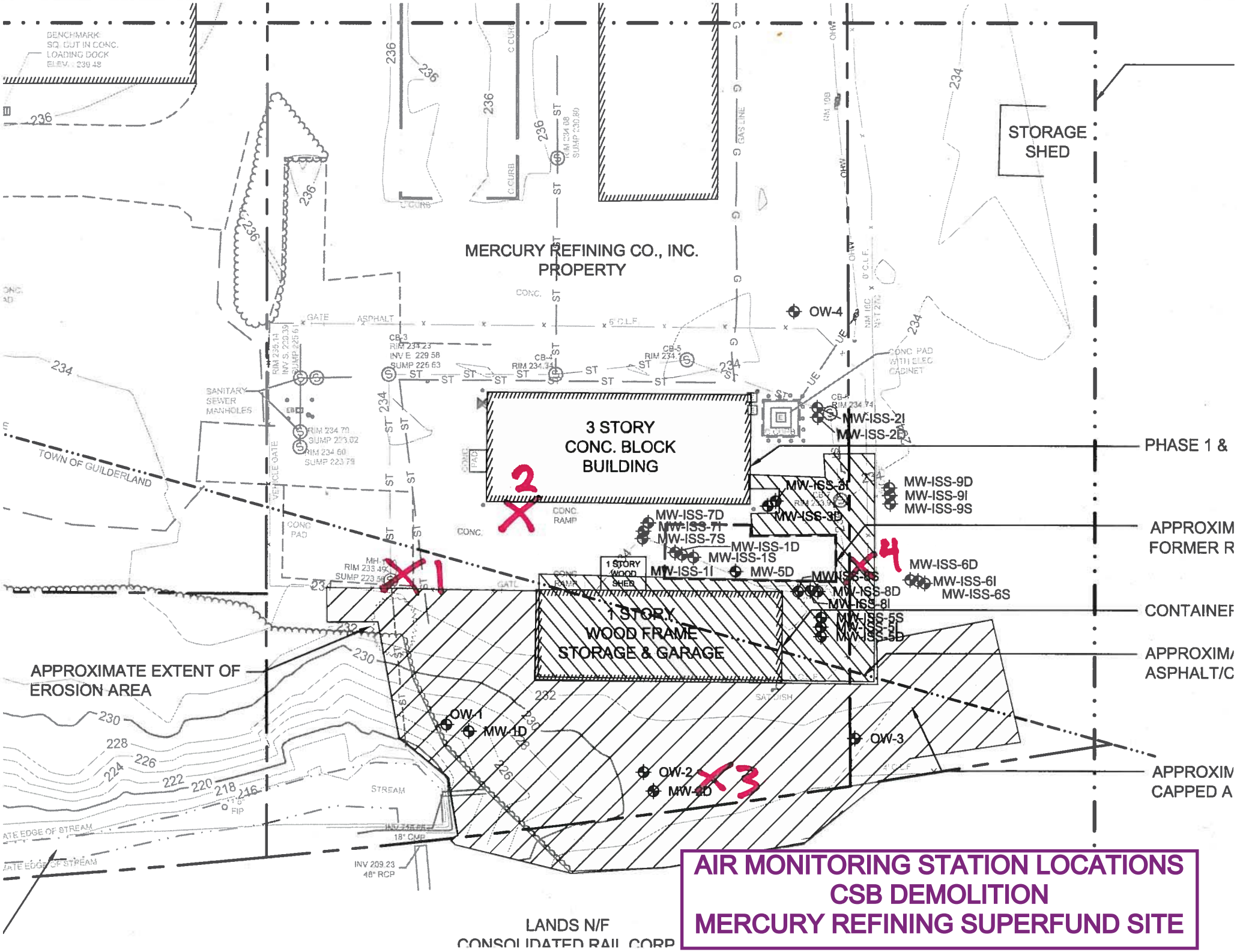
Subcontractors are responsible for developing, maintaining, and implementing their own health and safety programs, policies, procedures and equipment as necessary to protect their workers, and others, from their activities. Subcontractors shall operate equipment in accordance with their standard operating procedures as well as manufacturer's specifications. Any project monitoring activities conducted by BC at the Site shall not in any way relieve subcontractors of their critical obligation to monitor their operations and employees for the determination of exposure to hazards that may be present at the Site and to provide required guidance and protection. If requested, subcontractors will provide BC with a copy of their own H&S Plan for this project or other health and safety program documents for review.

BC's Health and Safety Plan has been prepared specifically for this project and is intended to address health and safety issues solely with respect to the activities of BC's own employees at the site. A copy of BC's H&S Plan may be provided to subcontractors in an effort to help them identify expected conditions at the site and general site hazards. The subcontractor shall remain responsible for identifying and evaluating hazards at the site as they pertain to their activities and for taking appropriate precautions. For example, BC's H&S Plan does not address specific hazards associated with tasks and equipment that are particular to the subcontractor's scope of work and site activities. (e.g., operation of a drill rig, excavator, crane or other equipment). Subcontractors are not to rely on BC's H&S Plan to identify all hazards that may be present at the Site. Subcontractor personnel are expected to comply fully with subcontractor's Health and Safety Plan and to observe the minimum safety guidelines applicable to their activities which may be identified in the BC H&S Plan. Failure to do so may result in the removal of the subcontractor or any of the subcontractor's workers from the job site.

Print	Sign	Date	Print	Sign	Date
Catie Mino		6/25/12			
Joban Price		6/25/12			
Matt Carnie		6/25/12			
Brian Taylor		8/9/12			
Adam Gutta		9/11/12			

Appendix B: Air Monitoring

APPENDIX B-1
AIR MONITORING DURING CSB DEMOLITION



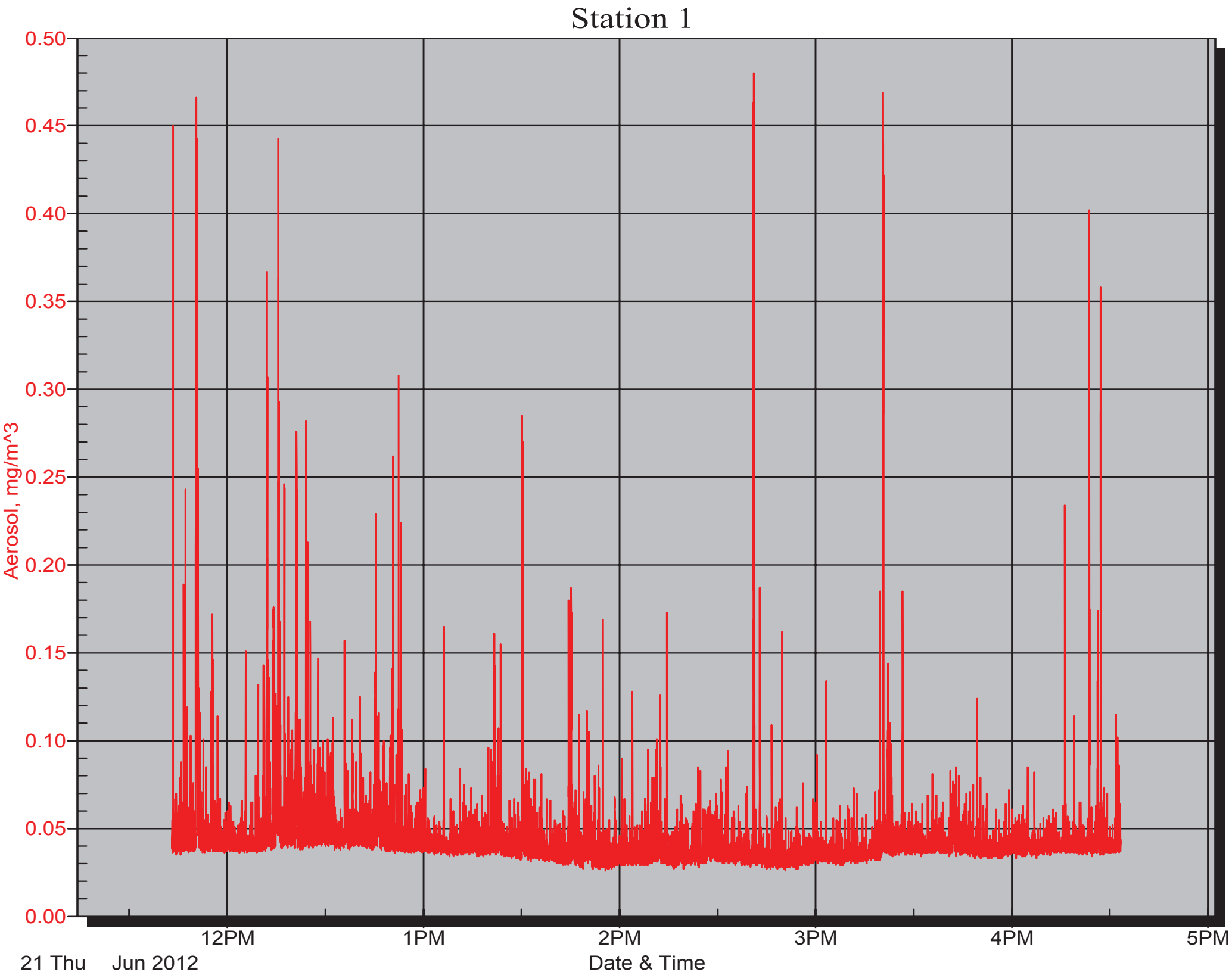
AIR MONITORING STATION LOCATIONS
CSB DEMOLITION
MERCURY REFINING SUPERFUND SITE

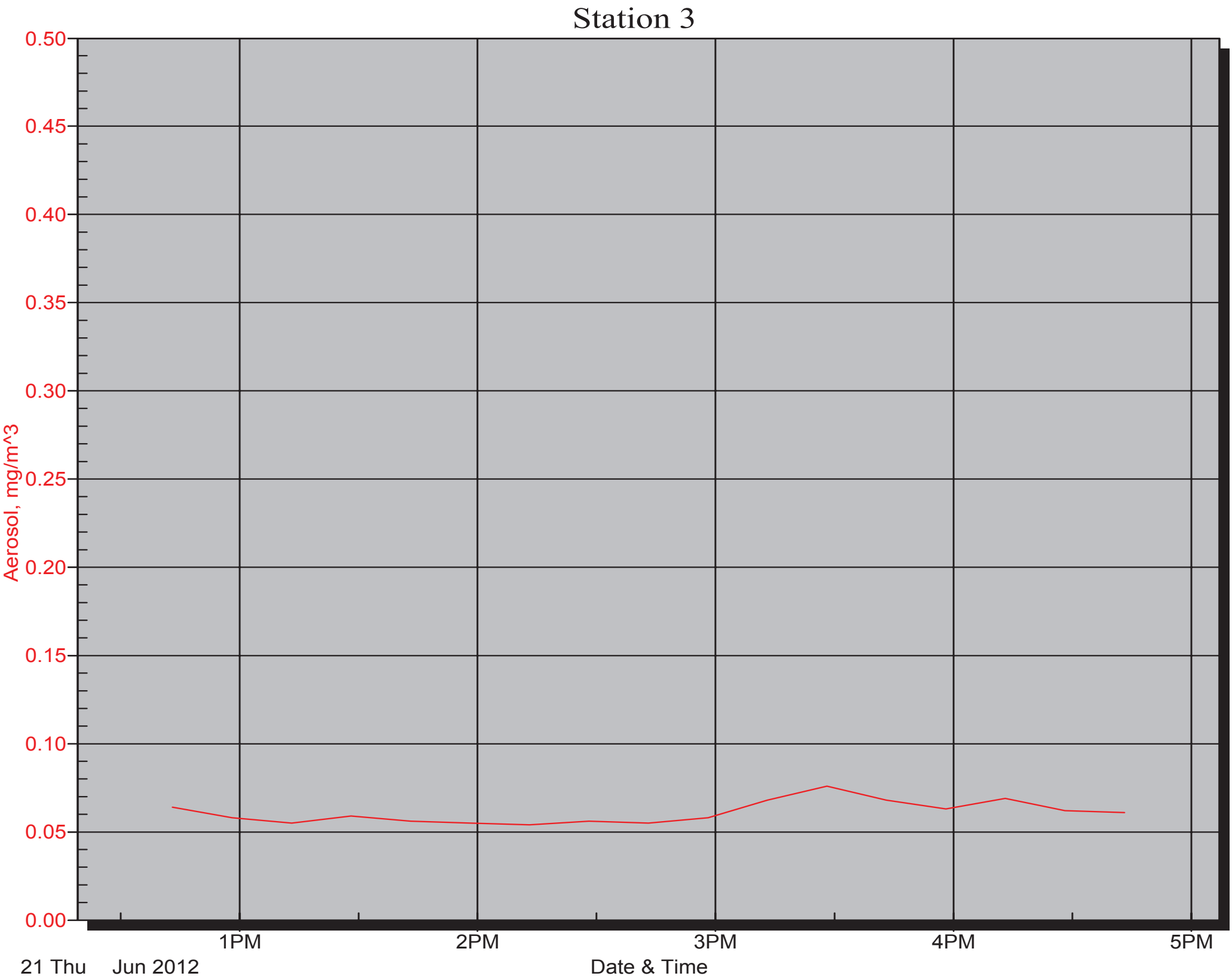
Daily Perimeter Air Monitoring Report
Thursday June 21, 2012
Mercury Refining Superfund Site
Colonie, NY

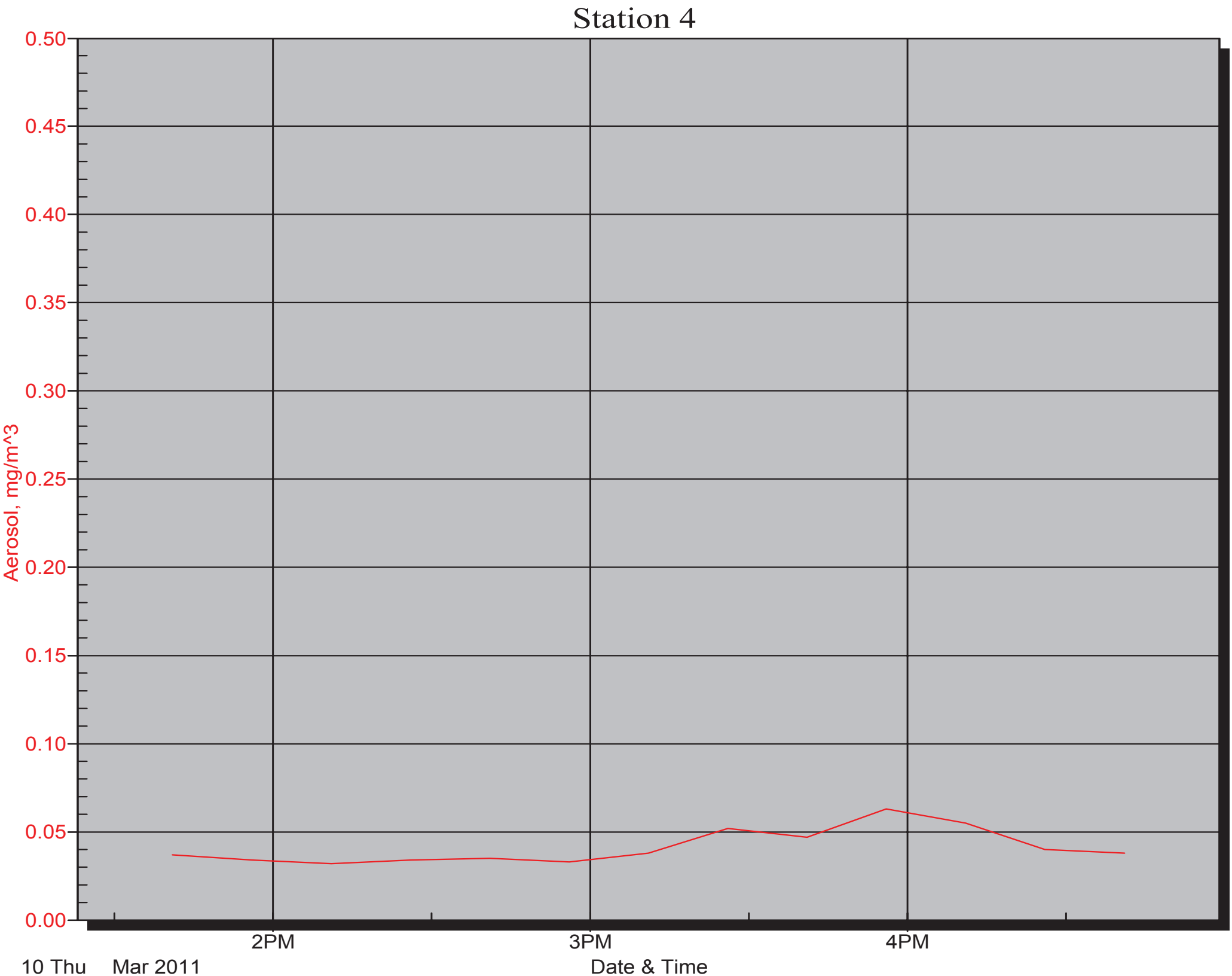
Weather				
Typical Wind Direction	NW			
	Station 1 (West)	Station 2 (North)	Station 3 (South)	Station 4 (East)
Particulate (PM10) Concentrations				
Daily Average (ug/m^3)	45	N/A	61	41
Maximum 15-min TWA Value (ug/m^3)	10999*	N/A	76	63

Alarms				
Time	15:30	15:45	15:55	
Downwind 15-min TWA concentration (ug/m^3)	76, 52	68, 47	63, 63	
Notes	Contractor demolishing sheetrock walls of interior office space	Delivery truck traveling over gravel near site entrance	Contractor tearing down southeast wall of container storage bldg.	
Response Actions				
	Stop work to spray water on debris	None	Stop work to spray water on debris	

* - Station 1 recorded instantaneous readings every second


Station 1
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Aerosol, mg/m^3
12PM
1PM
2PM
3PM
4PM
5PM
21 Thu Jun 2012
Date & Time

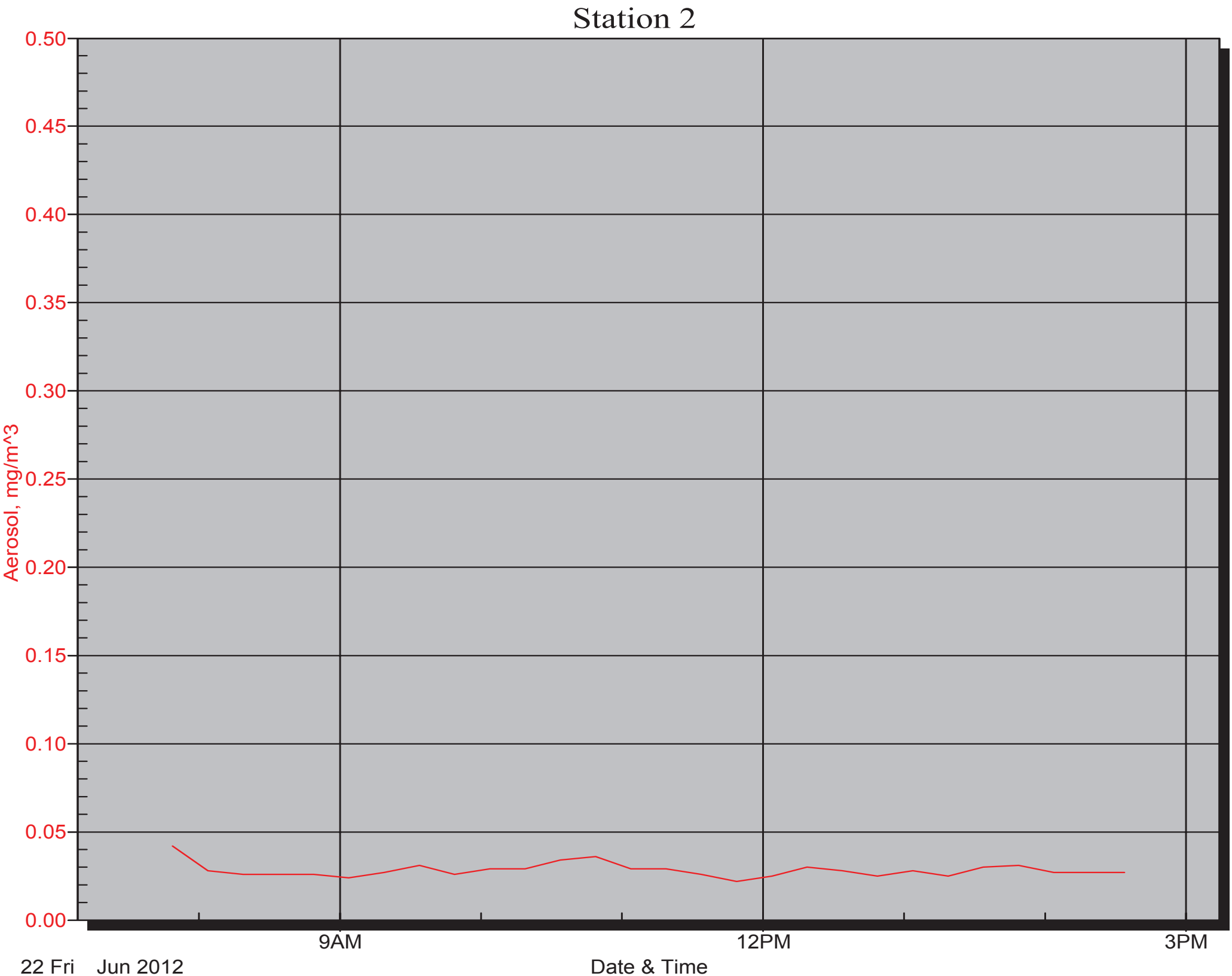

Station 3
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Aerosol, mg/m^3
1PM
2PM
3PM
4PM
5PM
21 Thu Jun 2012
Date & Time


Station 4
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Aerosol, mg/m^3
2PM
3PM
4PM
10 Thu Mar 2011
Date & Time

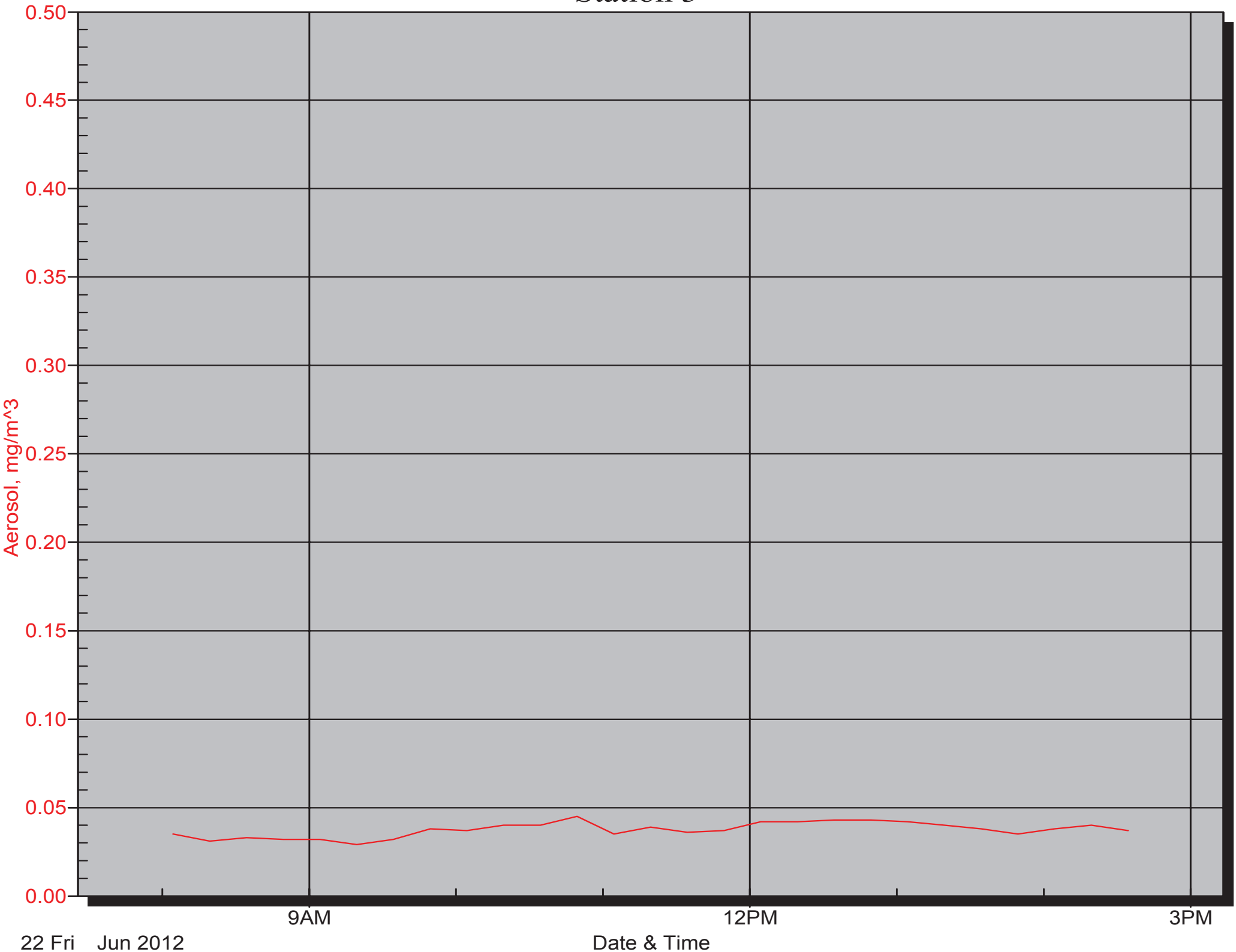
Daily Perimeter Air Monitoring Report
Friday June 22, 2012
Mercury Refining Superfund Site
Colonie, NY

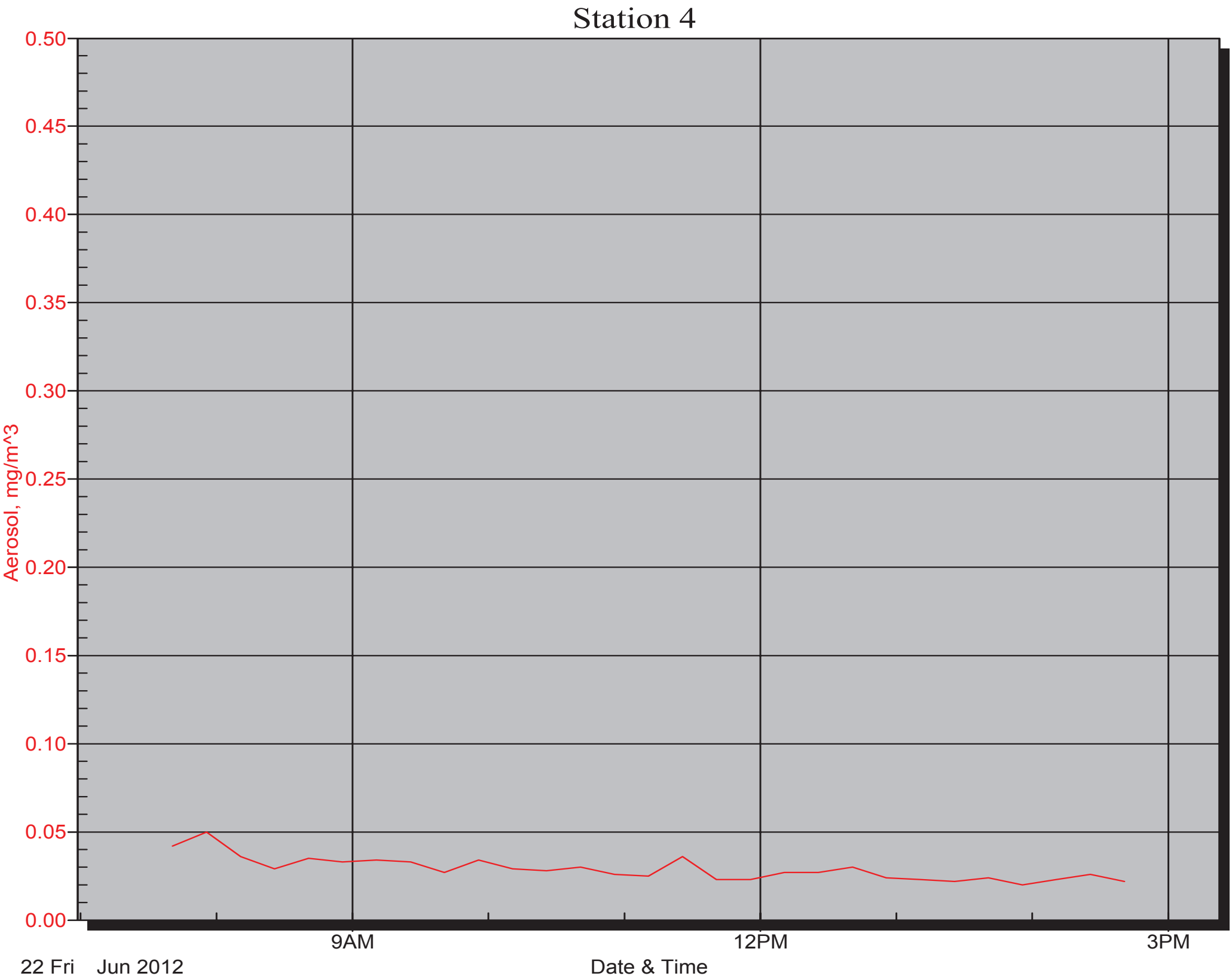
Weather				
Typical Wind Direction	NW			
	Station 1 (West)	Station 2 (North)	Station 3 (South)	Station 4 (East)
Particulate (PM10) Concentrations				
Daily Average (ug/m^3)	N/A	28	37	29
Maximum 15-min TWA Value (ug/m^3)	N/A	42	45	50

Alarms				
Time	11:15			
Downwind 15-min TWA concentration (ug/m^3)	39, 36			
Notes	Contractor loading sheetrock debris into truck			
Response Actions				
	Stop work to spray water on debris			


Station 2
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Aerosol, mg/m^3
9AM
12PM
3PM
22 Fri Jun 2012
Date & Time

Station 3


0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Aerosol, mg/m^3
9AM
12PM
3PM
22 Fri Jun 2012
Date & Time


Station 4
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Aerosol, mg/m^3
9AM
12PM
3PM
22 Fri Jun 2012
Date & Time

APPENDIX B-2
AIR MONITORING DURING INTRUSIVE SRDI ACTIVITIES

Brown AND Caldwell

Air Monitoring Form

Page 1 of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site:	Mereco	Project No:	
Project/Site Location:	Colonie, NY		
Employee Performing Air Monitoring: (Print and Sign):	Catie Mino CM	Date:	6/25/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
13:00	ISS-DP-13	0.000						
13:30		0.000						
14:00		0.000						
14:30		0.000						
15:00		0.000						
15:30		0.000						
16:00		0.000						
16:30		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site:	Mere Co	Project No:	
Project/Site Location:	Colonie, NY		
Employee Performing Air Monitoring: (Print and Sign):	Katie Mino	Date:	6/26/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:30	ISS - DP - 13	0.000						
8:00	↓	0.000						
8:30		0.000						
9:00		0.000						
9:30		0.000						
10:00		0.000						
10:30		0.000						
11:00		0.000						
13:00	ISS - DP - 10	0.000						
14:00	↓	0.000						
15:00		0.000						
16:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino CM	Date: 6/27/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☑ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~PID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:30	155-DP-11	0.000						
8:30	↓	0.000						
9:30		0.000						
10:30		0.000						
11:30		0.000						
12:30	155-DP-14	0.000						
13:30	↓	0.000						
14:30		0.000						
15:30		0.000						
16:30		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Meveco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino	Date: 6/28/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:30	ISS-DP-12	0.000						
8:30	↓	0.000						
9:30	↓	0.000						
10:30	↓	0.000						
11:30	↓	0.000						
12:30	↓	0.000						
13:30	↓	0.000						
14:30	↓	0.000						
15:30	ISS-DP-15	0.000						
16:30	↓	0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino CM	Date: 6/29/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	ISS-DP-15	0.000						
8:00	↓	0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino CM	Date: 7/9/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
12:00	1SS - DP - 13	0.000						
13:00	↓	0.000						
14:00		0.000						
15:00		0.000						
16:00		0.000						
16:30		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino	Date: 7/10/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID~~ (PPM) MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	155-DP-13	0.000						
8:00	155-DP-13	0.000						
9:00	↓	0.000						
10:00	↓	0.000						
11:00	↓	0.000						
12:00	↓	0.000						
13:00	155-DP-10	0.000						
14:00	↓	0.000						
15:00	↓	0.000						
16:00	↓	0.000						
17:00	↓	0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Merco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino	Date: 7/11/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~PID~~ (PPM) MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	ISS-DP-10	0.000						
8:00	↓	0.000						
9:00		0.000						
10:00		0.000						
11:00	ISS-DP-11	0.000						
12:00		0.000						
13:00		0.000						
14:00		0.000						
15:00		0.000						
16:00	↓	0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino CM	Date: 7/12/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☑ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☑ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID~~ (~~PPM~~) MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	ISS-DP-11	0.000						
8:00	ISS-DP-11	0.000						
9:00	ISS-DP-14	0.000						
10:00	↓	0.000						
11:00		0.000						
12:00		0.000						
13:00		0.000						
14:00		0.000						
15:00		0.000						
16:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino	Date: 7/13/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☑ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID~~ (~~PPM~~) MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	ISS-DP-14	0.000						
8:00	↓	0.000						
9:00	↓	0.000						
10:00	↓	0.000						
11:00	ISS-DP-15	0.000						
12:00	↓	0.000						
13:00	↓	0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Katie Mino, CU	Date: 7/16/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~PID/FID~~ (PPM) MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
10:00	ISS-DP-15	0.000						
11:00		0.000						
12:00		0.000						
13:00		0.000						
14:00		0.000						
15:00		0.000						
16:00		0.000						
16:30		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino CM	Date: 7/17/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~R/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	LSS - DP-15	0.000						
8:00	↓	0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						
12:00		0.000						
13:00	LSS - DP-12	0.000						
14:00	↓	0.000						
15:00		0.000						
16:00		0.000						
16:30		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino	Date: 7/18/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/PID~~ ~~(PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	ISS-DP-12	0.000						
8:00	↓	0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino	Date: 7/25/2

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PRM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
13:00	Saw cutting	0.000						
14:00	↓	0.000						
15:00		0.000						
16:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Katie Mino	Date: 7/26/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	Saw cutting	0.000						
8:00	↓	0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						
12:00		0.000						
13:00		0.000						
14:00	MW-155-L1	0.000						
15:00	↓	0.000						
16:00		0.000						
16:30		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino CM	Date: 7/27/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~PID~~ (PPM) MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	MW-1SS-11	0.000						
8:00	↓	0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						
12:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mimo CM	Date: 7/30/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☑ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☑ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID~~ ~~(PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
11:00	MW-155-11	0.000						
12:00	↓	0.000						
13:00		0.000						
14:00		0.000						
15:00		0.000						
16:00		0.000						
16:30		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino	Date: 7/31/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	ISS-MW-11	0.000						
8:00		0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						
12:00		0.000						
13:00		0.000						
14:00		0.000						
15:00		0.000						
16:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site:	Mereco	Project No:	
Project/Site Location:	Colonie, NY		
Employee Performing Air Monitoring: (Print and Sign):	Catie Mimo	Date:	8/1/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☑ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☑ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	MW-155-11	0.000						
8:00		0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						
12:00		0.000						
13:00		0.000						
14:00	MW-155-10	0.000						
15:00		0.000						
16:00		0.000						
17:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino	Date: 8/2/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☐ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☐ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	MW-1SS-10	0.000						
8:00		0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						
12:00		0.000						
13:00		0.000						
14:00		0.000						
15:00		0.000						
16:00		0.000						
1630		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Katie Mino	Date: 8/3/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	MW-155-10	0.000						
8:00	↓	0.000						
9:00		0.000						
10:00		0.006						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino	Date: 8/6/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~PIFID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
9:30	MW-155-10A	0.000						
10:00		0.000						
11:00		0.000						
12:00		0.000						
13:00		0.000						
14:00		0.000						
15:00		0.000						
16:00		0.000						
17:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mereco	Project No:
Project/Site Location: Colonie NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino	Date: 8/7/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-x

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☑ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☑ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	MW-1SS-10D	0.000						
8:00	↓	0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						
13:00	all site	0.000						
14:00		0.000						
15:00		0.000						
16:00		0.000						
17:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site:	Mereco	Project No:	
Project/Site Location:	Colonie NY		
Employee Performing Air Monitoring: (Print and Sign):	Catie Miho CM	Date:	8/8/12

Instrument(s)

Manufacturer/Model: JLCone MVA Manufacturer/Model: 431-X

Manufacturer/Model: Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	MW-155-12D	0.000						
8:00		0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						
12:00		0.000						
13:00		0.000						
14:00		0.000						
15:00		0.000						
16:00		0.000						
16:30		0.000						

Brown AND Caldwell

Air Monitoring Form

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mercco	Project No:
Project/Site Location: Colonie NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino CM	Date: 8/9/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	185 - MW-12D	0.000						
8:00		0.000						
9:00		0.000						
10:00		0.000						
11:00		0.000						
12:00		0.000						
13:00		0.000						
14:00		0.000						
15:00		0.000						
16:00		0.000						
17:00		0.000						

Brown AND Caldwell

Air Monitoring Form

Page ____ of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mercco	Project No:
Project/Site Location: Colonie NY	
Employee Performing Air Monitoring: (Print and Sign): Catie Mino CM	Date: 8/10/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/EID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
7:00	MW-155-12							

Brown AND Caldwell

Air Monitoring Form

Page ____ of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Marco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Brian Taylor	Date: 8/13/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 631-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
0930	MW-15J-62I	0.000						
1030	↓	0.000						
1230	↓	0.001						
1430	↓	0.001						
1530	MW-15J-62S	0.002						
1630	↓	0.000						

Brown AND Caldwell

Air Monitoring Form

Page ____ of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mercco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): Brent Taylor	Date: 8/14/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☐ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☐ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
0730	MW-15S-12S	0.000						
0830	↓	0.000						
1030	MW-15S-13D	.000						
1130		.000						
1330		.000						
1430		.000						
1530	↓	.000						

Brown AND Caldwell

Air Monitoring Form

Page ____ of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mercco	Project No:
Project/Site Location: Colonie NY	
Employee Performing Air Monitoring: (Print and Sign): Brit Taylor	Date: 8/13/12

Instrument(s)

Manufacturer/Model: Jerome MVA	Manufacturer/Model: 431-X
Manufacturer/Model:	Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
0830	MW-15J-13D	.000						
0930		.000						
1030		.000						
1230		.000						
1330		.000						
1430		.000						
1530		.000						

Brown AND Caldwell

Air Monitoring Form

Page ____ of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Merco	Project No:
Project/Site Location: Colorado	
Employee Performing Air Monitoring: (Print and Sign): [illegible] Brian Taylor	Date: 8/16/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
0945	MW-150-13I	0.000						
1030	↓	.000						
1130		0.000						
1330		0.000						
1445		0.000						
1530		0.000						

Brown AND Caldwell

Air Monitoring Form

Page ____ of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Mecco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): [signature] Brian Taylor	Date: 8/17/12

Instrument(s)

Manufacturer/Model: Jerome MVA Manufacturer/Model: 431-X

Manufacturer/Model: Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
0730	MW-1SS-131	0.000						
0830	↓	0.000						
		~~0~~						

Brown AND Caldwell

Air Monitoring Form

Page ____ of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Merco	Project No:
Project/Site Location: Colorado, NT	
Employee Performing Air Monitoring: (Print and Sign): Brit Taylor	Date: 8/20/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
1030	MW-150-135	0.000						
1230	↓	0.000						
1330		.000						
1430		.000						
1530		.000						
		.000						

Brown AND Caldwell

Air Monitoring Form

Page ____ of ____

Instructions: Complete this form immediately prior to project start.
File in project folder when complete.

Name of Project/Site: Merco	Project No:
Project/Site Location: Colonie, NY	
Employee Performing Air Monitoring: (Print and Sign): B Taylor	Date: 8/21/12

Instrument(s)

Manufacturer/Model: Jerome MVA

Manufacturer/Model: 431-X

Manufacturer/Model:

Manufacturer/Model:

Does the instrument(s) have a current calibration per the manufacturer's instructions? ☒ Yes ☐ No

Was the instrument(s) field checked (i.e bump tested or field calibrated) per the manufacturer's instructions? ☒ Yes ☐ No

Remarks:

Monitoring Data

TIME	LOCATION AND ACTIVITY	~~P/FID (PPM)~~ MVA	COLORIMETRIC TUBES (PPM)	RAM (mg/m³)	MULTI-GAS DETECTION %LEL	H2S	O2	OTHER
0800	Development	000						
0900	↓	000						
1000		000						
1000		000						
1200		000						
		0						

Appendix C: Data Usability Summary Reports

BROWN AND CALDWELL
Environmental Engineers & Consultants

QUALITATIVE
DATA USABILITY SUMMARY REPORT
Colonie, New York, Mercury Refining Site
June and July 2012 Waters and Solids

SDG Nos.: 480-21773-1, 480-21850-1, 480-21920-1, 480-22320-1, 480-22465-1, 480-22567-1 and 480-22646-1

Laboratory: TestAmerica Buffalo, Amherst, New York

Site: Mercury Refining Site, Colonie, New York

Date: August 6, 2012

Samples

Data from the following samples were reviewed:

Laboratory ID	Client ID	Matrix
480-21773-1	MR-SB-1SS-DP-13-1.5-2	Solid
480-21773-2	MR-SB-1SS-DP-13-12-12.5	Solid
480-21773-3	MR-SB-1SS-DP-13-23.5-24	Solid
480-21774-1	MR-SB-1SS-DP-13-1.5-2	Solid
480-21775-1	MR-C-1SS-DP-13-0-0.5	Solid
480-21847-1	MR-SB-1SS-DP-13-35.5-36	Solid
480-21847-2	MR-SB-1SS-DP-13-47-47.5	Solid
480-21847-3	MR-SB-1SS-DP-13-54.5-55	Solid
480-21847-4	MR-DUP-062612	Solid
480-21847-5	MR-SB-1SS-DP-13-64.5-65	Solid
480-21847-6	MR-SB-1SS-DP-10-1.5-2	Solid
480-21847-7	MR-SB-1SS-DP-10-12-12.5	Solid
480-21847-8	MR-SB-1SS-DP-10-24-24.5	Solid
480-21847-9	MR-SB-1SS-DP-10-32-32.5	Solid
480-21847-10	MR-SB-1SS-DP-10-44-44.5	Solid

480-21847-11	MR-SB-1SS-DP-10-56-56.5	Solid
480-21847-12	MR-SB-1SS-DP-10-66-66.5	Solid
480-21847-13	MR-FB-062612	Water
480-21850-1	MR-SB-1SS-DP-10-1.5-2	Solid
480-21915-1	MR-1SS-DP-11-2-2.5	Solid
480-21915-2	MR-1SS-DP-11-12-12.5	Solid
480-21915-3	MR-1SS-DP-11-20-20.5	Solid
480-21915-4	MR-1SS-DP-11-28-28.5	Solid
480-21915-5	MR-1SS-DP-11-36-36.5	Solid
480-21915-6	MR-1SS-DP-11-44-44.5	Solid
480-21915-7	MR-1SS-DP-11-56-56.5	Solid
480-21915-8	MR-1SS-DP-11-64-64.5	Solid
480-21915-9	MR-1SS-DP-14-1.5-2	Solid
480-21915-10	MR-1SS-DP-14-8-8.5	Solid
480-21915-11	MR-1SS-DP-14-16-16.5	Solid
480-21915-12	MR-1SS-DP-14-24-24.5	Solid
480-21915-13	MR-1SS-DP-14-32-32.5	Solid
480-21915-14	MR-1SS-DP-14-40.40.5	Solid
480-21915-15	MR-1SS-DP-14-48-48.5	Solid
480-21915-16	MR-1SS-DP-14-56-56.5	Solid
480-21915-17	MR-1SS-DP-14-64-64.5	Solid
480-21917-1	MR-SB-1SS-DP-11-2-2.5	Solid
480-21917-2	MR-SB-1SS-DP-14-8-8.5	Solid
480-21920-1	MR-C-1SS-DP-11-0-0.5	Solid
480-21994-1	MR-SB-1SS-DP-12-2-2.5	Solid
480-21994-2	MR-SB-1SS-DP-12-5-5.5	Solid
480-21994-3	MR-SB-1SS-DP-12-9-9.5	Solid
480-21994-4	MR-SB-1SS-DP-12-20-20.5	Solid
480-21994-5	MR-SB-1SS-DP-12-32-32.5	Solid
480-21994-6	MR-DUP-062812	Solid
480-21994-7	MR-SB-1SS-DP-12-44-44.5	Solid
480-21994-8	MR-SB-1SS-DP-12-52-52.5	Solid
480-21994-9	MR-SB-1SS-DP-12-62-5-63	Solid
480-21994-10	MR-FB-062812	Water
480-21994-11	MR-SB-1SS-DP-15-2-2.5	Solid
480-21994-12	MR-SB-1SS-DP-15-4.5-5	Solid
480-22000-1	MR-SB-1SS-DP-12-5-5.5	Solid
480-22000-2	MR-SB-1SS-DP-15-4.5-5	Solid
480-22003-1	MR-C-1SS-DP-15-0-0.5	Solid
480-22066-1	MR-SB-1SS-DP-15-8.5-9	Solid
480-22066-2	MR-SB-1SS-DP-15-20-20.5	Solid
480-22066-3	MR-SB-1SS-DP-15-28-28.5	Solid
480-22066-4	MR-SB-1SS-DP-15-36-36.5	Solid
480-22066-5	MR-DUP-062912	Solid
480-22066-6	MR-FB-062912	Water

480-22066-7	MR-SB-1SS-DP-15-44-44.5	Solid
480-22066-8	MR-SB-1SS-DP-15-60-60.5	Solid
480-22066-9	MR-SB-1SS-DP-15-71.5-72	Solid
480-22320-1	MR-GW-1SS-DP-13-18-22-T	Water
480-22320-2	MR-GW-1SS-DP-13-18-22-D	Water
480-22320-3	MR-GW-1SS-DP-13-28-32-T	Water
480-22320-4	MR-GW-1SS-DP-13-28-32-D	Water
480-22360-1	MR-GW-1SS-DP-13-38-42-T	Water
480-22360-2	MR-GW-1SS-DP-13-38-42-D	Water
480-22360-3	MR-GW-1SS-DP-13-48-52-T	Water
480-22360-4	MR-GW-1SS-DP-13-48-52-D	Water
480-22360-5	MR-GW-DUP071012-T	Water
480-22360-6	MR-GW-DUP071012-D	Water
480-22360-7	MR-GW-1SS-DP-13-58-62-T	Water
480-22360-8	MR-GW-1SS-DP-13-58-62-D	Water
480-22360-9	MR-GW-1SS-DP-10-22-26-T	Water
480-22360-10	MR-GW-1SS-DP-10-22-26-D	Water
480-22360-11	MR-GW-1SS-DP-10-32-36-T	Water
480-22360-12	MR-GW-1SS-DP-10-32-36-D	Water
480-22360-13	MR-GW-1SS-DP-10-12-16-T	Water
480-22360-14	MR-GW-1SS-DP-10-12-16-D	Water
480-22360-15	MR-GW-1SS-DP-10-42-46-T	Water
480-22360-16	MR-GW-1SS-DP-10-42-46-D	Water
480-22465-1	MR-GW-1SS-DP-10-52-56-T	Water
480-22465-2	MR-GW-1SS-DP-10-52-56-D	Water
480-22465-3	MR-GW-1SS-DP-10-62-66-T	Water
480-22465-4	MR-GW-1SS-DP-10-62-66-D	Water
480-22465-5	MR-GW-1SS-DP-11-20-24-T	Water
480-22465-6	MR-GW-1SS-DP-11-20-24-D	Water
480-22465-7	MR-GW-1SS-DP-11-30-34-T	Water
480-22465-8	MR-GW-1SS-DP-11-30-34-D	Water
480-22465-9	MR-GW-1SS-DP-11-40-44-T	Water
480-22465-10	MR-GW-1SS-DP-11-40-44-D	Water
480-22465-11	MR-GW-1SS-DP-11-10-14-T	Water
480-22465-12	MR-GW-1SS-DP-11-10-14-D	Water
480-22465-13	MR-FB-071112-T	Water
480-22465-14	MR-FB-071112-D	Water
480-22465-15	MR-GW-1SS-DP-11-50-54-T	Water
480-22465-16	MR-GW-1SS-DP-11-50-54-D	Water
480-22567-1	MR-GW-1SS-DP-11-60-64-T	Water
480-22567-2	MR-GW-1SS-DP-11-60-64-D	Water
480-22567-3	MR-GW-1SS-DP-14-18-22-T	Water
480-22567-4	MR-GW-1SS-DP-14-18-22-D	Water
480-22567-5	MR-GW-1SS-DP-14-28-32-T	Water
480-22567-6	MR-GW-1SS-DP-14-28-32-D	Water

480-22567-7	MR-GW-DUP071212-T	Water
480-22567-8	MR-GW-DUP071212-D	Water
480-22567-9	MR-GW-1SS-DP-14-38-42-T	Water
480-22567-10	MR-GW-1SS-DP-14-38-42-D	Water
480-22600-1	MR-GW-1SS-DP-14-48-52-T	Water
480-22600-2	MR-GW-1SS-DP-14-48-52-D	Water
480-22600-3	MR-FB-071312-T	Water
480-22600-4	MR-FB-071312-D	Water
480-22600-5	MR-GW-1SS-DP-14-58-62-T	Water
480-22600-6	MR-GW-1SS-DP-14-58-62-D	Water
480-22646-1	MR-GW-1SS-DP-15-22-26-T	Water
480-22646-2	MR-GW-1SS-DP-15-22-26-D	Water
480-22646-3	MR-GW-1SS-DP-15-12-16-T	Water
480-22646-4	MR-GW-1SS-DP-15-12-16-D	Water
480-22646-5	MR-GW-1SS-DP-15-32-36-T	Water
480-22646-6	MR-GW-1SS-DP-15-32-36-D	Water
480-22646-7	MR-GW-1SS-DP-15-42-46-T	Water
480-22646-8	MR-GW-1SS-DP-15-42-46-D	Water
480-22692-1	MR-GW-1SS-DP-15-52-56-T	Water
480-22692-2	MR-GW-1SS-DP-15-52-56-D	Water
480-22692-3	MR-GW-1SS-DP-15-62-66-T	Water
480-22692-4	MR-GW-1SS-DP-15-62-66-D	Water
480-22692-5	MR-GW-1SS-DP-12-21-25-T	Water
480-22692-6	MR-GW-1SS-DP-12-21-25-D	Water
480-22692-7	MR-GW-1SS-DP-12-11-15-T	Water
480-22692-8	MR-GW-1SS-DP-12-11-15-D	Water
480-22692-9	MR-GW-1SS-DP-12-31-35-T	Water
480-22692-10	MR-GW-1SS-DP-12-31-35-D	Water
480-22692-11	MR-GW-1SS-DP-12-41-45-T	Water
480-22692-12	MR-GW-1SS-DP-12-41-45-D	Water
480-22783-1	MR-GW-1SS-DP-12-51-55-T	Water
480-22783-2	MR-GW-1SS-DP-12-51-55-D	Water

A Qualitative Data Usability Review was performed on all analytical data from the SDGs listed above. The samples were collected at the Mercury Refining Site, in Colonie, New York. The following table outlines the analytical methods used to analyze the samples;

Analysis	**Method**
Total Mercury in TCLP Leachate	SW 846 7470A
Mercury in Solids	SW 846 7471A
Mercury in Water	SW846 7470A

All solid samples (57 normal field samples and 3 field duplicates) were analyzed for mercury by Method SW7471A. A total of 10 solid samples with levels of mercury above limits were leached using TCLP methodology and analyzed by Method SW7470A. All water samples (33 normal field samples and 2 field duplicates) were analyzed for total and dissolved mercury by Method SW7470A.

This review was performed in accordance with NYSDEC Guidance for the Development of Data Usability Summary Reports (revised September 1997).

Data Package Completeness

- The data package was received complete as defined under the requirements for the NYSDEC ASP Category B and USEPA CLP deliverables.

Chains of Custody

The Chains-of Custody (COCs) were reviewed for completeness and accuracy. There were no discrepancies noted and all requested analyses were performed.

Inorganics

The following were reviewed for the analyses in this report:

- Case narrative
- Inorganic analysis data sheets (Form 1's)
- Holding time and sample preservation
- Blank contamination
- Initial and continuing calibration summaries
- Matrix Spike/Matrix Spike duplicate (MS/MSD) recoveries
- Lab Control Sample/Lab Control Sample duplicate (LCS/LCSD) recoveries
- Laboratory duplicate precision
- ICP serial dilution results
- Field duplicate precision

The items listed above were technically and contractually in compliance with the method and Work Plan requirements, with the exceptions discussed in the following text.

Total Mercury in TCLP Leachate by Method SW7470A

All criteria were in compliance. No data qualification was warranted.

Mercury in solids by Method SW7471A

High matrix spike recoveries resulted in one mercury result being qualified as estimated (J/UJ).

Mercury in water by Method SW7470A

Field duplicate imprecision resulted in 2 total mercury results being qualified as estimated (J).

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. All results are considered usable for the stated purposes. Minor data quality issues with respect to field duplicate imprecision, and spike recoveries were identified; only some required qualification of the data. A

complete list of the qualified results in table format and the table legend are provided as attachments A and B.

Signed: _____ Dated: 8/7/2012

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Attachment A

Legend for Summary of Estimated Data
Remedial Design Investigation
Mercury Refining Superfund Site
Colonie, New York

SampleTypeID	SampleTypeDesc
FD	Field Duplicate
N	Normal Environmental Sample

UnitsID	UnitsDesc
MG/KG	Milligrams per kilogram
MG/L	Milligrams per liter
UG/KG	Micrograms per kilogram
UG/L	Micrograms per liter

QCFlag	QualifierDescription
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

ReasonCode	CodeDesc
1	Holding time violation
2	Method blank contamination
4	MS/MSD recovery
4H	MS/MSD recovery, high bias
4L	MS/MSD recovery, low bias
5	MS/MSD precision outside limits
7	Field blank contamination
8	Field duplicate precision outside limits
SL	ICV, CCV or column performance check problem, low bias
T	Trace level compound, poor quantitation

Attachment B

Summary of Estimated Data - 3
Remedial Design Investigation
Mercury Refining Superfund Site
Colonie, New York

Groundwater Results:

Location ID	Sample Type	Sample Date	Analytical Method	Analyte Name	Primary Result	Units	QCFlag	Reason Code
ISS-14	FD	07/12/12	SW7470A	MERCURY	**0.27**	UG/L	J	8
ISS-14	N	07/12/12	SW7470A	MERCURY	< 0.2	UG/L	UJ	8

Soil and Sediment Results:

Location ID	Sample Type	Sample Date	Analytical Method	Analyte Name	Primary Result	Units	QCFlag	Reason Code
ISS-12	N	06/28/12	SW7471A	MERCURY	**0.96**	MG/KG	J	4H

See Attachment A for table legend.

BROWN AND CALDWELL
Environmental Engineers & Consultants

QUALITATIVE
DATA USABILITY SUMMARY REPORT
Colonie, New York, Mercury Refining Site
September 2012 Waters

SDG Nos.: 480-25068-1

Laboratory: TestAmerica Buffalo, Amherst, New York

Site: Mercury Refining Site, Colonie, New York

Date: September 18, 2012

Samples

Data from the following samples were reviewed:

Laboratory ID	Client ID	Matrix
480-25068-1	MR-GW-MW-1SS-13S-F	Water
480-25068-2	MR-GW-MW-1SS-12S-F	Water
480-25068-3	MR-GW-MW-1SS-11I-F	Water
480-25068-4	MR-GW-MW-1SS-10I-F	Water
480-25068-5	FB-091112	Water
480-25068-6	DUP-091012-F	Water
480-25068-7	DUP-091012-U	Water
480-25068-8	MR-GW-MW-1SS-11D-U	Water
480-25068-9	MR-GW-MW-1SS-11D-F	Water
480-25068-10	MR-GW-MW-1SS-10D-U	Water
480-25068-11	MR-GW-MW-1SS-10D-F	Water
480-25068-12	FB-091212	Water
480-25068-13	MR-GW-MW-1SS-13I-U	Water
480-25068-14	MR-GW-MW-1SS-12I-U	Water
480-25068-15	MR-GW-MW-1SS-13D-U	Water
480-25068-16	MR-GW-MW-1SS-13I-F	Water

480-25068-17	MR-GW-MW-1SS-12I-F	Water
480-25068-18	MR-GW-MW-1SS-13D-F	Water
480-25068-19	MR-GW-MW-1SS-12D-U	Water
480-25068-20	MR-GW-MW-1SS-13S-U	Water
480-25068-21	MR-GW-MW-1SS-12S-U	Water
480-25068-22	MR-GW-MW-1SS-11I-U	Water
480-25068-23	MR-GW-MW-1SS-10I-U	Water
480-25068-24	MR-GW-MW-1SS-12D-F	Water
480-25068-25	MR-GW-MW-1SS-11S-U	Water
480-25068-26	MR-GW-MW-1SS-11S-F	Water
480-25068-27	MR-GW-MW-1SS-10S-U	Water
480-25068-28	MR-GW-MW-1SS-10S-F	Water

A Qualitative Data Usability Review was performed on all analytical data from the SDGs listed above. The samples were collected at the Mercury Refining Site, in Colonie, New York. The following table outlines the analytical methods used to analyze the samples;

Analysis	**Method**
Mercury in Water	SW846 7470A

All water samples (12 normal field samples, 1 field duplicate and 2 field blanks) were analyzed for total and dissolved mercury by Method SW7470A.

This review was performed in accordance with NYSDEC Guidance for the Development of Data Usability Summary Reports (revised September 1997).

Data Package Completeness

- The data package was received complete as defined under the requirements for the NYSDEC ASP Category B and USEPA CLP deliverables.

Chains of Custody

The Chains-of Custody (COCs) were reviewed for completeness and accuracy. There were no discrepancies noted and all requested analyses were performed.

Inorganics

The following were reviewed for the analyses in this report:

- Case narrative
- Inorganic analysis data sheets (Form 1's)
- Holding time and sample preservation
- Blank contamination
- Initial and continuing calibration summaries
- Matrix Spike/Matrix Spike duplicate (MS/MSD) recoveries
- Lab Control Sample/Lab Control Sample duplicate (LCS/LCSD) recoveries
- Laboratory duplicate precision
- Field duplicate precision

The items listed above were technically and contractually in compliance with the method and Work Plan requirements, with the exceptions discussed in the following text.

Mercury in water by Method SW7470A

All criteria were in compliance. No data qualification was warranted.

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. All results are considered usable for the stated purposes. No data quality issues were identified.

Signed: _____ Dated: 9/18/2012

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Appendix D: Waste Disposal Documentation

APPENDIX D-1
INVESTIGATION DERIVED WASTE
INVENTORY, PROFILES, MANIFESTS

MERCURY REFINING SUPERFUND SITE
IDW INVENTORY
6/25/2012 - 10/13/2012

						Range of Mercury Concentrations in Relevant Samples					
Container	Contents	Solid/Liquid	Location	Date	Relevant DP Boring(s) or Samples	Soil (mg/kg)	Groundwater unfiltered (ug/L)	CSB Sump Water (ug/L)	Concrete (mg/kg)	TCLP (mg/L)	Classified as Hazardous Waste (HW)
55 gal drum	Geoprobe liners	Solid	ISS-DP-10,11,12,13,14,15	6/25-6/29	DP-10,11,12,13,14,15	ND-134	--	--	--	ND-0.0002	HW
55 gal drum	Geoprobe liners	Solid	ISS-DP-10,11,12,13,14,15	6/25-6/29	DP-10,11,12,13,14,15	ND-134	--	--	--	ND-0.0002	HW
55 gal drum	Soil Cuttings	Solid	ISS-DP-10,11,12,13,14,15	6/25-6/29	DP-10,11,12,13,14,15	ND-134	--	--	--	ND-0.0002	--
55 gal drum	Purge Water	Liquid	ISS-DP-10-11-13-14-15	7/9-7/16	DP-10-11-13-14-15	--	ND-993	--	--	--	HW
55 gal drum	Purge Water	Liquid	ISS-DP-15,12	7/17-7/18	DP-12, 15	--	ND-67.2	--	--	--	--
55 gal drum	Concrete	Solid	CSB pad	7/25	DP-13, 11, 15	--	--	--	0.16-5.3	0.00038 - 0.028	HW
55 gal drum	Concrete	Solid	CSB pad	7/26	DP-13, 11, 15	--	--	--	0.16-5.3	0.00038 - 0.028	HW
55 gal drum	Concrete	Solid	CSB pad	7/26	DP-13, 11, 15	--	--	--	0.16-5.3	0.00038 - 0.028	HW
55 gal drum	Concrete	Solid	CSB pad	7/26	DP-13, 11, 15	--	--	--	0.16-5.3	0.00038 - 0.028	HW
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-11D	7/26-7/27	DP-13, 14	ND-8.1	ND-142	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-11D	7/31	DP-13, 14	ND-8.1	ND-142	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-11I	7/31	DP-13, 14	ND-8.1	ND-142	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-11I	7/31	DP-13, 14	ND-8.1	ND-142	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-11I	7/31	DP-13, 14	ND-8.1	ND-142	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-11S	8/1	DP-13, 14	ND-8.1	ND-142	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-11S	8/1	DP-13, 14	ND-8.1	ND-142	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-11S	8/1	DP-13, 14	ND-8.1	ND-142	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10S	8/1	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10S	8/1	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10I	8/2	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10I	8/2	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings	Solid	MW-ISS-10I/10D	8/1-8/2	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10I/10D	8/2-8/3	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10D	8/6	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10D	8/6	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10D	8/6	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10D	8/6	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10D	8/6	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-10D/12D	8/6-8/9	DP-15	ND-3.2	ND-8.1	--	--	ND	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-12D	8/9	MW-ISS-12D	NA	ND	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-12D	8/9	MW-ISS-12D	NA	ND	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-12D/12S	8/9-8/14	MW-ISS-12D	NA	ND-0.3	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-12D	8/9	MW-ISS-12D	NA	ND	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-12D	8/9	MW-ISS-12D	NA	ND	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-12I	8/13	MW-ISS-12D	NA	ND	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-12I	8/13	MW-ISS-12D	NA	ND	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-12I/12S	8/13-8/14	MW-ISS-12D	NA	ND-0.3	--	--	NA	--

MERCURY REFINING SUPERFUND SITE
IDW INVENTORY
6/25/2012 - 10/13/2012

						Range of Mercury Concentrations in Relevant Samples					
Container	**Contents**	**Solid/Liquid**	**Location**	**Date**	**Relevant DP Boring(s) or Samples**	**Soil (mg/kg)**	**Groundwater unfiltered (ug/L)**	**CSB Sump Water (ug/L)**	**Concrete (mg/kg)**	**TCLP (mg/L)**	**Classified as Hazardous Waste (HW)**
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-12I/12S	8/13-8/14	MW-ISS-12D	NA	ND-0.3	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-13D	8/15	MW-ISS-13D	NA	0.33	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-13D	8/15	MW-ISS-13D	NA	0.33	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-13D	8/15	MW-ISS-13D	NA	0.33	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-13I	8/17	MW-ISS-13D	NA	ND	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-13I	8/17	MW-ISS-13D	NA	ND	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-13I	8/17	MW-ISS-13D	NA	ND	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-13S	8/20	MW-ISS-13D	NA	ND	--	--	NA	--
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-13S	8/20	MW-ISS-13D	NA	ND	--	--	NA	--
55 gal drum	Dried Grout	Solid	MW-ISS-13S	8/20	MW-ISS-13D	NA	ND	--	--	NA	HW
55 gal drum	Development Water	Liquid	MW-ISS-13D	8/20	MW-ISS-13D	NA	0.33	--	--	NA	--
55 gal drum	Development Water	Liquid	MW-ISS-13D	8/21	MW-ISS-13D	NA	0.33	--	--	NA	--
55 gal drum	Development Water	Liquid	MW-ISS-13S	8/21	MW-ISS-13D	NA	ND	--	--	NA	--
55 gal drum	Decon Pad	Solid	All	8/21	All	ND-134	ND-993	--	0.16-5.3	0.00038 - 0.028	HW
55 gal drum	Drill Cuttings/Mud Tub	Solid/Liquid	MW-ISS-13I	8/17	MW-ISS-13D	NA	ND	--	--	NA	--
55 gal drum	Purge Water	Liquid	All SRDI Monitoring Wells	9/10-9/12	GW Analytical	--	ND-1.9	--	--	--	--
55 gal drum	PPE	Solid	Entire SRDI	9/10-9/12	All SRDI Analytical	ND-134	ND-993	--	0.16-5.3	0.00038 - 0.028	HW
55 gal drum	Concrete from CSB Pad	Solid	Cut-Outs in Berm	10/12	DP-13, 11, 15	--	--	--	0.16-5.3	0.00038 - 0.028	HW
1,550 gal poly tank	CSB Sump and Well Development Water	Liquid	CSB sump water and development water from all new MWs except 13S & 13D	6/25-10/13	MR-SUMP WATER, All DP GW results	--	ND-993 [1]	21.3	--	--	--
10,000 gal frac tank	CSB Sump and Well Development Water	Liquid	CSB sump water and development water from all new MWs except 13S & 13D	6/25-10/13	MR-SUMP WATER, All DP GW results	--	ND-993 [1]	21.3	--	--	--

Notes

1 Average of all 33 non-filtered GW results is 38 ug/L, using value of MDL (0.12) for non-detect.
2 NA - Not Available/not collected
3 "--" - Not Applicable
4 The waste water consists of rainwater pumped from the sump of the secondary containment system and well development water from monitoring wells. The concentration of mercury in the sump water was 0.021 mg/L (ppm). The average concentration of mercury in all 33 unfiltered groundwater samples from the locations of the monitoring wells was 0.038 mg/L (ppm).

THE ENVIRONMENTAL QUALITY COMPANY ®

Customer Account: 012840
Fax: (518) 766-4106

Notice of Waste Approval Expiration
EQ Detroit, Inc. (MID980991566)
1923 Frederick
Detroit, MI 48211
September 6, 2012

Keith Decker
LAND REMEDIATION INC
1644 STATE ROUTE 43
AVERILL PARK, NY 12018

RE-APPROVAL NOTICE

Thank you for selecting EQ as your environmental management partner. Our annual review has determined that the following Approval(s) are scheduled to expire; it is necessary that this form be sent to EQ prior to the date below as approvals will become inactive at that time.

Approval #	Waste Code / Common Name EPA ID Generator Name	Expiration Date	Reapprove? *(Circle One)*
A112002DET	029L / NON HAZARDOUS MERCURY CONTAMINATED WATER NYD048148175 THE MERCURY REFINING REMEDIAL DESIGN	12/29/2011	(Y) N
A112006DET	NONE / NON HAZARDOUS MERCURY CONTAMINATED SOIL NYD048148175 THE MERCURY REFINING REMEDIAL DESIGN	12/29/2011	(Y) N
A112007DET	D009 / MERCURY CONTAMINATED SOIL NYD048148175 THE MERCURY REFINING REMEDIAL DESIGN	12/29/2011	(Y) N
A112008DET	D009 / MERCURY CONTAMINATED WATER NYD048148175 THE MERCURY REFINING REMEDIAL DESIGN	12/29/2011	(Y) N
A112010DET	D009 / MERCURY CONTAMINATED MUD / WATER NYD048148175 THE MERCURY REFINING REMEDIAL DESIGN	12/29/2011	(Y) N
A112013DET	D009 / FREE MERCURY - CONTAMINATED SOIL NYD048148175 THE MERCURY REFINING REMEDIAL DESIGN	01/10/2012	(Y) N
A112014DET	D009 / FREE MERCURY - CONTAMINATED MUD / WATER NYD048148175 THE MERCURY REFINING REMEDIAL DESIGN	01/10/2012	(Y) N
A113301DET	D009 / DEBRIS NYD048148175 THE MERCURY REFINING REMEDIAL DESIGN	01/20/2012	(Y) N

Note: The Generator was formerly known as the Mercury Refining Remedial Design Group. It is now known as the Mercury Refining Site Remedial Action Group. An application has been submitted for an EPA Generator ID number assigned to the Mercury Refining Site Remedial Action Group.

To ensure uninterrupted service, please select one of the following recertification options:

NON-PROCESS CHANGES: If each waste stream has been properly documented, characterized and approved, and the process has not changed, please circle "Y" for YES next to the corresponding Approval Number. If you do not wish to obtain a reauthorized Approval, please circle "N" for NO next to the corresponding Approval Number. An authorized generator signature is required at the bottom of this Notice. Upon completion, please fax to the EQ Resource Team at 1-800-592-5329 for immediate processing.

PROCESS CHANGES OR AMENDMENTS: If the process generating the waste has changed, please call the EQ Resource Team at 1-800-592-5489 for immediate assistance. Thank you for your continued patronage.

I, Frank Williams, Frank Williams as agent for the Mercury Refining Site Remedial Action Group,

(Authorized Generator Signature) *(Printed Generator Name)*

hereby certify that I have reviewed the waste stream file(s) for the Approvals listed above and have determined that the processes generating the above wastes have not changed over the past year and that all information is accurate and complete. I agree that, as a condition of extending the Approval(s) listed above, all wastes which are transported, delivered, or tendered to EQ under such Approval(s) shall be subject to the attached Standard Terms and Conditions.

Company Name: Brown and Caldwell Associates Date: 9/27/2012

EQ - The Environmental Quality Company
Waste Characterization Report

☐ *I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.*

☐	**Michigan Disposal Waste Treatment Plant** (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
☐	**Wayne Disposal, Inc.** (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
✓	**EQ Detroit, Inc.** (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID980991566
☐	**EQ Ohio (Envirite of Ohio)** (Stabilization and Treatment)	2050 Central Avenue, SE, Canton, OH 44707 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #OHD980568992
☐	**EQ Pennsylvania (Envirite of Pennsylvania)** (Stabilization and Treatment)	730 Vogelsong Road, York, PA 17404 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #PAD010154045
☐	**EQ Oklahoma, Inc.** (Stabilization, Wastewater Treatment)	2700 South 25th West Avenue, Tulsa, OK 74107-3435 Phone: 918-582-9595 Fax: 918-560-5252	EPA ID #OKD000402396
☐	**EQ Resource Recovery, Inc.** (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: 734-727-5500 Fax: 734-326-4033	EPA ID #MID060975844
☐	**EQ Florida, Inc.** (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
☐	**EQ Detroit Transfer and Processing** (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MIK939928313
☐	**EQIS Indianapolis Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #INR000125641
☐	**EQIS Atlanta Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID #GAR000039776
☐	**EQ Augusta, Inc.** (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Please note, this profile should not be used for wastes destined to EQ Illinois (Envirite of Illinois). For more information, please contact our National Service Center at (800)592-5489.

Waste Common Name: Mercury contaminated mud/waterl

Section 1 - Generator & Customer Info

SIC/NAICS*:

Generator EPA ID: NYD-048-148-175

Generator: The Mercury Refining Remedial Design Gro
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210
County:

Mailing Address
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210

Generator Contact
Name: Frank Williams
Title: Professional Geo.
Phone: (518) 472-1988
Fax: ( ) -

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

EQ Customer No.: 12840

Invoicing Company
Company: LAND REMEDIATION INC
Address: 1644 STATE ROUTE 43
City: AVERILL PARK
State: NY Zip: 12018
Country:

Invoicing Contact
Name: WILLIAM LINDHEIMER
Phone: (518) 766-4105
Fax: (518) 766-4106

Technical Contact
Name: Keith Decker
Phone: (518) 229-7214
Fax: ( ) -
Mobile: (518) 229-7214 Pager: ( ) -
E-mail: kad@land-remediation.com

Section 2 - Shipping & Packaging Info

2.1) Shipping Volume & Unit: 100 drums Frequency: Year

2.2) DOT Shipping Name: Hazardous Waste Liquid, n.o.s. (Mercury), NA 3077, 9, PG III

2.3) Is this waste surcharge exempt? ○ Yes ● No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

- ☐ Bulk Solid (yd ^{3}< 2000 lbs/yd ^{3})
- ☐ Totes, Size
- ☐ Other (palletized, 5 gal. Pail, etc.)
- ☐ Bulk Solid (Ton > 2000 lbs./yd ^{3})
- ☐ Cubic Yard Boxes/Bags
- ☐ Bulk Liquids (Gallon)
- ☑ Drums, Size 55-gallon

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

3.1) Color: VARIES 3.2) Odor: none

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ○ Yes ● No

3.4) Physical State at 70 °F: ☐ Solid ☐ Dust/Powder ☑ Liquid ☑ Sludge

3.5) What is the pH of this waste? ☐ ≤ 2 ☐ 2.1-4.9 ☑ 5-10 ☐ 10.1-12.4 ☐ ≥ 12.5

3.6) What is the flash point of this waste? ○ <90 °F ○ 90-139 °F ○ 140-199 °F ● ≥ 200 °F

3.7) Does this waste contain? **(check all that apply)**

- ☐ **None**
- ☑ Free Liquids
- ☐ Oily Residue
- ☐ Metal Fines
- ☐ Biodegradable Sorbants
- ☐ Amines
- ☐ Ammonia
- ☐ Water Reactive
- ☐ Biohazard
- ☐ Aluminum
- ☐ Shock Sensitive Waste
- ☐ Reactive Waste
- ☐ Radioactive Waste
- ☐ Explosives
- ☐ Pyrophoric Waste
- ☐ Isocyanates
- ☐ Asbestos - non-friable
- ☐ Asbestos - friable
- ☐ Dioxins
- ☐ Furans

Section 4 - Composition / Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

Sediment/mud from 60. to 80. %

Water from 20. to ~~30.~~ 40 % FOW

4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).

Sediments/mud and ground water generated from drilling process for installation of wells and site investigation. Previous mercury retorting facility, now closed.

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ○ Yes ● No

Comments:

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ● Yes ○ No D009

Comments:

5.3) Do any State Hazardous Waste Codes apply? ○ Yes ● No

Comments:

5.4) Is this waste intended for wastewater treatment? ○ Yes* ● No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
****If you answered "Yes" to question 5.4, please complete the WCR Addendum.***

Section 6 - Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction Levels? ● Yes ○ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ○ Yes ● No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ○ Yes ● No

6.2) Is the waste an oxidizer (D001)? ○ Yes ● No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ○ Yes ● No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ○ Yes ● No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: ○ **Generator Knowledge** ● **Analysis*** ○ **MSDS***

***Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.**

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D004	Arsenic	5	● Below	○ Above	
D005	Barium	100	● Below	○ Above	
D006	Cadmium	1	● Below	○ Above	
D007	Chromium	5	● Below	○ Above	
D008	Lead	5	● Below	○ Above	
D009	Mercury	0.2	○ Below	● Above	
D010	Selenium	1	● Below	○ Above	
D011	Silver	5	● Below	○ Above	
D012	Endrin	0.02	● Below	○ Above	
D013	Lindane	0.4	● Below	○ Above	
D014	Methoxychlor	10	● Below	○ Above	
D015	Toxaphene	0.5	● Below	○ Above	
D016	2,4-D	10	● Below	○ Above	
D017	2,4,5-TP (Silvex)	1	● Below	○ Above	
D018	Benzene	0.5	● Below	○ Above	
D019	Carbon Tetrachloride	0.5	● Below	○ Above	
D020	Chlordane	0.03	● Below	○ Above	
D021	Chlorobenzene	100	● Below	○ Above	
D022	Chloroform	6.0	● Below	○ Above	
D023	o-Cresol	200	● Below	○ Above	

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D024	m-Cresol	200	● Below	○ Above	
D025	p-Cresol	200	● Below	○ Above	
D026	Cresols	200	● Below	○ Above	
D027	1,4-Dichlorobenzene	7.5	● Below	○ Above	
D028	1,2-Dicholoroethane	0.5	● Below	○ Above	
D029	1,1-Dichloroethylene	0.7	● Below	○ Above	
D030	2,4-Dinitrotoluene	0.13	● Below	○ Above	
D031	Heptachlor	0.008	● Below	○ Above	
D032	Hexachlorobenzene	0.13	● Below	○ Above	
D033	Hexachlorobutadiene	0.5	● Below	○ Above	
D034	Hexachloroethane	3.0	● Below	○ Above	
D035	Methyl Ethyl Ketone	200	● Below	○ Above	
D036	Nitrobenzene	2	● Below	○ Above	
D037	Pentachlorophenol	100	● Below	○ Above	
D038	Pyridine	5	● Below	○ Above	
D039	Tetrachloroethylene	0.7	● Below	○ Above	
D040	Trichloroethylene	0.5	● Below	○ Above	
D041	2,4,5-Trichlorophenol	400	● Below	○ Above	
D042	2,4,6-Trichlorophenol	2	● Below	○ Above	
D043	Vinyl Chloride	0.2	● Below	○ Above	

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ○ Yes ● No

If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

7.1) Is this a Michigan non-hazardous liquid industrial waste? ○ Yes ● No

Comments:

7.2) Is this a Universal waste? ○ Yes ● No

7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ○ Yes ● No

7.4) Is this waste a recoverable petroleum product? ○ Yes ● No

7.5) Is this waste used oil as defined by 40 CFR Part 279? ○ Yes ● No

Section 8 - TSCA Information

8.1) What is the concentration of PCBs in the waste? ● None ○ 0-5 ppm ○ 6-49 ppm ○ 50-499 ppm ○ 500+ ppm

8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ○ Yes ● No

If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.

8.3) Has this waste been processed into a non-liquid form? ○ Yes ○ No

If yes, what was the concentration of PCBs prior to processing? (ppm) ○ N/A ○ 0-499 ○ 500+

8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ○ Yes ○ No

8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ○ Yes ○ No

8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ○ N/A ○ Yes ○ No

Section 9 - Clean Air Act Information

9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ○ Yes ● No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)
For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.

9.2) Is this site, or waste, subject to any other MACT or NESHAP? ○ Yes ● No

If yes, please specify:

9.3) Does this waste stream contain Benzene? ○ Yes ● No

If you answered "No" to question 9.2, please skip to section 10.

9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ○ Yes ○ No

9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ○ Yes ○ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "No" to question 9.3 <u>and</u> 9.4, please skip to Section 10.

9.6) Does the waste contain > 10% water? ○ Yes ○ No

9.7) What is the TAB quantity for your facility? Mg/year

9.8) Does the waste contain >1.0 mg/kg total Benzene? ○ Yes ○ No

9.9) What is the total Benzene concentration in your waste? (concentration) (unit)

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

10.1) Is this waste intended for fuel blending? ○ Yes* ● No

If you answered 'Yes' to question 10.1, please enter the following:

Heat value (BTU/lb.) _____

Chlorine (%) _____

Water (%) _____

Solids (%) _____

10.2) Is this waste intended for reclamation? ○ Yes ● No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: **Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)**

Constituent	Concentration	UHC?

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Comments:
logged in

Generator: Frank Williams as agent for The Mercury Refining Remedial Design Group
Authorized Generator Signature

Frank Williams as agent for The Mercury Refining Remedial Design Group
Printed Generator Name

Company: Brown and Caldwell Title: Supervising Geologist Date: 12/27/10

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions.

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws.

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

EQ - The Environmental Quality Company
Waste Characterization Report

☐ *I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.*

☐	**Michigan Disposal Waste Treatment Plant** (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
☐	**Wayne Disposal, Inc.** (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
✓	**EQ Detroit, Inc.** (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID980991566
☐	**EQ Ohio (Envirite of Ohio)** (Stabilization and Treatment)	2050 Central Avenue, SE, Canton, OH 44707 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #OHD980568992
☐	**EQ Pennsylvania (Envirite of Pennsylvania)** (Stabilization and Treatment)	730 Vogelsong Road, York, PA 17404 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #PAD010154045
☐	**EQ Oklahoma, Inc.** (Stabilization, Wastewater Treatment)	2700 South 25th West Avenue, Tulsa, OK 74107-3435 Phone: 918-582-9595 Fax: 918-560-5252	EPA ID #OKD000402396
☐	**EQ Resource Recovery, Inc.** (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: 734-727-5500 Fax: 734-326-4033	EPA ID #MID060975844
☐	**EQ Florida, Inc.** (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
☐	**EQ Detroit Transfer and Processing** (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MIK939928313
☐	**EQIS Indianapolis Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #INR000125641
☐	**EQIS Atlanta Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID #GAR000039776
☐	**EQ Augusta, Inc.** (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Please note, this profile should not be used for wastes destined to EQ Illinois (Envirite of Illinois). For more information, please contact our National Service Center at (800)592-5489.

Waste Common Name: Mercury contaminated soil

Section 1 - Generator & Customer Info

SIC/NAICS*:

Generator EPA ID: NYD-048-148-175

Generator: The Mercury Refining Remedial Design Gro
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210
County:

Mailing Address
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210

Generator Contact
Name: Frank Williams
Title: Professional Geo.
Phone: (518) 472-1988
Fax: ( ) -

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

EQ Customer No.: 12840

Invoicing Company
Company: LAND REMEDIATION INC
Address: 1644 STATE ROUTE 43
City: AVERILL PARK
State: NY Zip: 12018
Country:

Invoicing Contact
Name: WILLIAM LINDHEIMER
Phone: (518) 766-4105
Fax: (518) 766-4106

Technical Contact
Name: Keith Decker
Phone: (518) 229-7214
Fax: ( ) -
Mobile: (518) 229-7214 Pager: ( ) -
E-mail: kad@land-remediation.com

Section 2 - Shipping & Packaging Info

2.1) Shipping Volume & Unit: 125 drums Frequency: Year

2.2) DOT Shipping Name: Hazardous Waste Solid, n.o.s. (Mercury), NA 3077, 9, PG III

2.3) Is this waste surcharge exempt? ○ Yes ● No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

- ☐ Bulk Solid (yd ^{3}< 2000 lbs/yd ^{3})
- ☐ Totes, Size
- ☐ Other (palletized, 5 gal. Pail, etc.)
- ☐ Bulk Solid (Ton > 2000 lbs./yd ^{3})
- ☐ Cubic Yard Boxes/Bags
- ☐ Bulk Liquids (Gallon)
- ☑ Drums, Size 55-gallon

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

3.1) Color: VARIES 3.2) Odor: none

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ○ Yes ● No

3.4) Physical State at 70 °F: ☑ Solid ☐ Dust/Powder ☐ Liquid ☐ Sludge

3.5) What is the pH of this waste? ☐ ≤ 2 ☐ 2.1-4.9 ☑ 5-10 ☐ 10.1-12.4 ☐ ≥ 12.5

3.6) What is the flash point of this waste? ○ <90 °F ○ 90-139 °F ○ 140-199 °F ● ≥ 200 °F

3.7) Does this waste contain? **(check all that apply)** ☑ **None** ☐ Free Liquids ☐ Oily Residue ☐ Metal Fines

☐ Biodegradable Sorbants ☐ Amines ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum

☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Radioactive Waste ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates

☐ Asbestos - non-friable ☐ Asbestos - friable ☐ Dioxins ☐ Furans

Section 4 - Composition / Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

Moisture from 0. to 10. %

Soil cuttings from 90. to 100. %

4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).

Soil cuttings generated from drilling process for installation of wells and site investigation. Previous mercury retorting facility, now closed.

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ○ Yes ● No

Comments:

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ● Yes ○ No D009

Comments:

5.3) Do any State Hazardous Waste Codes apply? ○ Yes ● No

Comments:

5.4) Is this waste intended for wastewater treatment? ○ Yes* ● No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
****If you answered "Yes" to question 5.4, please complete the WCR Addendum.***

Section 6 - Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction Levels? ● Yes ○ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ○ Yes ● No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ○ Yes ● No

6.2) Is the waste an oxidizer (D001)? ○ Yes ● No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ○ Yes ● No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ○ Yes ● No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: ○ **Generator Knowledge** ● **Analysis*** ○ **MSDS***

***Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.**

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D004	Arsenic	5	● Below	○ Above	
D005	Barium	100	● Below	○ Above	
D006	Cadmium	1	● Below	○ Above	
D007	Chromium	5	● Below	○ Above	
D008	Lead	5	● Below	○ Above	
D009	Mercury	0.2	○ Below	● Above	
D010	Selenium	1	● Below	○ Above	
D011	Silver	5	● Below	○ Above	
D012	Endrin	0.02	● Below	○ Above	
D013	Lindane	0.4	● Below	○ Above	
D014	Methoxychlor	10	● Below	○ Above	
D015	Toxaphene	0.5	● Below	○ Above	
D016	2,4-D	10	● Below	○ Above	
D017	2,4,5-TP (Silvex)	1	● Below	○ Above	
D018	Benzene	0.5	● Below	○ Above	
D019	Carbon Tetrachloride	0.5	● Below	○ Above	
D020	Chlordane	0.03	● Below	○ Above	
D021	Chlorobenzene	100	● Below	○ Above	
D022	Chloroform	6.0	● Below	○ Above	
D023	o-Cresol	200	● Below	○ Above	

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D024	m-Cresol	200	● Below	○ Above	
D025	p-Cresol	200	● Below	○ Above	
D026	Cresols	200	● Below	○ Above	
D027	1,4-Dichlorobenzene	7.5	● Below	○ Above	
D028	1,2-Dicholoroethane	0.5	● Below	○ Above	
D029	1,1-Dichloroethylene	0.7	● Below	○ Above	
D030	2,4-Dinitrotoluene	0.13	● Below	○ Above	
D031	Heptachlor	0.008	● Below	○ Above	
D032	Hexachlorobenzene	0.13	● Below	○ Above	
D033	Hexachlorobutadiene	0.5	● Below	○ Above	
D034	Hexachloroethane	3.0	● Below	○ Above	
D035	Methyl Ethyl Ketone	200	● Below	○ Above	
D036	Nitrobenzene	2	● Below	○ Above	
D037	Pentachlorophenol	100	● Below	○ Above	
D038	Pyridine	5	● Below	○ Above	
D039	Tetrachloroethylene	0.7	● Below	○ Above	
D040	Trichloroethylene	0.5	● Below	○ Above	
D041	2,4,5-Trichlorophenol	400	● Below	○ Above	
D042	2,4,6-Trichlorophenol	2	● Below	○ Above	
D043	Vinyl Chloride	0.2	● Below	○ Above	

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ○ Yes ● No

If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

7.1) Is this a Michigan non-hazardous liquid industrial waste? ○ Yes ● No

Comments:

7.2) Is this a Universal waste? ○ Yes ● No

7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ○ Yes ● No

7.4) Is this waste a recoverable petroleum product? ○ Yes ● No

7.5) Is this waste used oil as defined by 40 CFR Part 279? ○ Yes ● No

Section 8 - TSCA Information

8.1) What is the concentration of PCBs in the waste? ● None ○ 0-5 ppm ○ 6-49 ppm ○ 50-499 ppm ○ 500+ ppm

8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ○ Yes ● No

If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.

8.3) Has this waste been processed into a non-liquid form? ○ Yes ○ No

If yes, what was the concentration of PCBs prior to processing? (ppm) ○ N/A ○ 0-499 ○ 500+

8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ○ Yes ○ No

8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ○ Yes ○ No

8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ○ N/A ○ Yes ○ No

Section 9 - Clean Air Act Information

9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ○ Yes ● No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)
For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.

9.2) Is this site, or waste, subject to any other MACT or NESHAP? ○ Yes ● No

If yes, please specify:

9.3) Does this waste stream contain Benzene? ○ Yes ● No

If you answered "No" to question 9.2, please skip to section 10.

9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ○ Yes ○ No

9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ○ Yes ○ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "No" to question 9.3 <u>and</u> 9.4, please skip to Section 10.

9.6) Does the waste contain > 10% water? ○ Yes ○ No

9.7) What is the TAB quantity for your facility? Mg/year

9.8) Does the waste contain >1.0 mg/kg total Benzene? ○ Yes ○ No

9.9) What is the total Benzene concentration in your waste? (concentration) (unit)

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

10.1) Is this waste intended for fuel blending? ○ Yes* ● No

If you answered 'Yes' to question 10.1, please enter the following:

Heat value (BTU/lb.) _____

Chlorine (%) _____

Water (%) _____

Solids (%) _____

10.2) Is this waste intended for reclamation? ○ Yes ● No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: **Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)**

Constituent	Concentration	UHC?

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Comments:
logged in

Generator: [signature] as agent for The Mercury Refining Remedial Design Group — Frank Williams as agent for The Mercury Refining Remedial Design Group

Authorized Generator Signature — *Printed Generator Name*

Company: Brown and Caldwell Title: Supervising Geologist Date: 12/27/10

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

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The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws.

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

EQ - The Environmental Quality Company
Waste Characterization Report

☐ *I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.*

☐	**Michigan Disposal Waste Treatment Plant** (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
☐	**Wayne Disposal, Inc.** (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
✓	**EQ Detroit, Inc.** (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID980991566
☐	**EQ Ohio (Envirite of Ohio)** (Stabilization and Treatment)	2050 Central Avenue, SE, Canton, OH 44707 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #OHD980568992
☐	**EQ Pennsylvania (Envirite of Pennsylvania)** (Stabilization and Treatment)	730 Vogelsong Road, York, PA 17404 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #PAD010154045
☐	**EQ Oklahoma, Inc.** (Stabilization, Wastewater Treatment)	2700 South 25th West Avenue, Tulsa, OK 74107-3435 Phone: 918-582-9595 Fax: 918-560-5252	EPA ID #OKD000402396
☐	**EQ Resource Recovery, Inc.** (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: 734-727-5500 Fax: 734-326-4033	EPA ID #MID060975844
☐	**EQ Florida, Inc.** (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
☐	**EQ Detroit Transfer and Processing** (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MIK939928313
☐	**EQIS Indianapolis Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #INR000125641
☐	**EQIS Atlanta Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID #GAR000039776
☐	**EQ Augusta, Inc.** (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Please note, this profile should not be used for wastes destined to EQ Illinois (Envirite of Illinois). For more information, please contact our National Service Center at (800)592-5489.

Waste Common Name: Mercury contaminated water

Section 1 - Generator & Customer Info

SIC/NAICS*:

Generator EPA ID: NYD-048-148-175

Generator: The Mercury Refining Remedial Design Gro
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210
County:

Mailing Address
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210

Generator Contact
Name: Frank Williams
Title: Professional Geo.
Phone: (518) 472-1988
Fax: ( ) -

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

EQ Customer No.: 12840

Invoicing Company
Company: LAND REMEDIATION INC
Address: 1644 STATE ROUTE 43
City: AVERILL PARK
State: NY Zip: 12018
Country:

Invoicing Contact
Name: WILLIAM LINDHEIMER
Phone: (518) 766-4105
Fax: (518) 766-4106

Technical Contact
Name: Keith Decker
Phone: (518) 229-7214
Fax: ( ) -
Mobile: (518) 229-7214 Pager: ( ) -
E-mail: kad@land-remediation.com

Section 2 - Shipping & Packaging Info

2.1) Shipping Volume & Unit: 100 drums Frequency: Year

2.2) DOT Shipping Name: Hazardous Waste Liquid, n.o.s. (Mercury), NA 3077, 9, PG III

2.3) Is this waste surcharge exempt? ○ Yes ● No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

- ☐ Bulk Solid (yd ^{3}< 2000 lbs/yd ^{3})
- ☐ Totes, Size
- ☐ Other (palletized, 5 gal. Pail, etc.)
- ☐ Bulk Solid (Ton > 2000 lbs./yd ^{3})
- ☐ Cubic Yard Boxes/Bags
- ☐ Bulk Liquids (Gallon)
- ☑ Drums, Size 55-gallon

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

3.1) Color: VARIES 3.2) Odor: none

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ○ Yes ● No

3.4) Physical State at 70 °F: ☐ Solid ☐ Dust/Powder ☑ Liquid ☑ Sludge

3.5) What is the pH of this waste? ☐ ≤ 2 ☐ 2.1-4.9 ☑ 5-10 ☐ 10.1-12.4 ☐ ≥ 12.5

3.6) What is the flash point of this waste? ○ <90 °F ○ 90-139 °F ○ 140-199 °F ● ≥ 200 °F

3.7) Does this waste contain? **(check all that apply)** ☐ **None** ☑ Free Liquids ☐ Oily Residue ☐ Metal Fines

☐ Biodegradable Sorbants ☐ Amines ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum

☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Radioactive Waste ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates

☐ Asbestos - non-friable ☐ Asbestos - friable ☐ Dioxins ☐ Furans

Section 4 - Composition / Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

Sediment/mud from 2. to 10. %

Water from 80. to 90. %

4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).

Ground water generated from drilling process for installation of wells and site investigation. Previous mercury retorting facility, now closed.

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ○ Yes ● No

Comments:

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ● Yes ○ No D009

Comments:

5.3) Do any State Hazardous Waste Codes apply? ○ Yes ● No

Comments:

5.4) Is this waste intended for wastewater treatment? ○ Yes* ● No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
****If you answered "Yes" to question 5.4, please complete the WCR Addendum.***

Section 6 - Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction Levels? ● Yes ○ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ○ Yes ● No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ○ Yes ● No

6.2) Is the waste an oxidizer (D001)? ○ Yes ● No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ○ Yes ● No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ○ Yes ● No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: ○ **Generator Knowledge** ● **Analysis*** ○ **MSDS***

***Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.**

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D004	Arsenic	5	● Below	○ Above	
D005	Barium	100	● Below	○ Above	
D006	Cadmium	1	● Below	○ Above	
D007	Chromium	5	● Below	○ Above	
D008	Lead	5	● Below	○ Above	
D009	Mercury	0.2	○ Below	● Above	
D010	Selenium	1	● Below	○ Above	
D011	Silver	5	● Below	○ Above	
D012	Endrin	0.02	● Below	○ Above	
D013	Lindane	0.4	● Below	○ Above	
D014	Methoxychlor	10	● Below	○ Above	
D015	Toxaphene	0.5	● Below	○ Above	
D016	2,4-D	10	● Below	○ Above	
D017	2,4,5-TP (Silvex)	1	● Below	○ Above	
D018	Benzene	0.5	● Below	○ Above	
D019	Carbon Tetrachloride	0.5	● Below	○ Above	
D020	Chlordane	0.03	● Below	○ Above	
D021	Chlorobenzene	100	● Below	○ Above	
D022	Chloroform	6.0	● Below	○ Above	
D023	o-Cresol	200	● Below	○ Above	

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D024	m-Cresol	200	● Below	○ Above	
D025	p-Cresol	200	● Below	○ Above	
D026	Cresols	200	● Below	○ Above	
D027	1,4-Dichlorobenzene	7.5	● Below	○ Above	
D028	1,2-Dicholoroethane	0.5	● Below	○ Above	
D029	1,1-Dichloroethylene	0.7	● Below	○ Above	
D030	2,4-Dinitrotoluene	0.13	● Below	○ Above	
D031	Heptachlor	0.008	● Below	○ Above	
D032	Hexachlorobenzene	0.13	● Below	○ Above	
D033	Hexachlorobutadiene	0.5	● Below	○ Above	
D034	Hexachloroethane	3.0	● Below	○ Above	
D035	Methyl Ethyl Ketone	200	● Below	○ Above	
D036	Nitrobenzene	2	● Below	○ Above	
D037	Pentachlorophenol	100	● Below	○ Above	
D038	Pyridine	5	● Below	○ Above	
D039	Tetrachloroethylene	0.7	● Below	○ Above	
D040	Trichloroethylene	0.5	● Below	○ Above	
D041	2,4,5-Trichlorophenol	400	● Below	○ Above	
D042	2,4,6-Trichlorophenol	2	● Below	○ Above	
D043	Vinyl Chloride	0.2	● Below	○ Above	

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ○ Yes ● No

If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

7.1) Is this a Michigan non-hazardous liquid industrial waste? ○ Yes ● No

Comments:

7.2) Is this a Universal waste? ○ Yes ● No

7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ○ Yes ● No

7.4) Is this waste a recoverable petroleum product? ○ Yes ● No

7.5) Is this waste used oil as defined by 40 CFR Part 279? ○ Yes ● No

Section 8 - TSCA Information

8.1) What is the concentration of PCBs in the waste? ● None ○ 0-5 ppm ○ 6-49 ppm ○ 50-499 ppm ○ 500+ ppm

8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ○ Yes ● No

If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.

8.3) Has this waste been processed into a non-liquid form? ○ Yes ○ No

If yes, what was the concentration of PCBs prior to processing? (ppm) ○ N/A ○ 0-499 ○ 500+

8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ○ Yes ○ No

8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ○ Yes ○ No

8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ○ N/A ○ Yes ○ No

Section 9 - Clean Air Act Information

9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ○ Yes ● No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)
For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.

9.2) Is this site, or waste, subject to any other MACT or NESHAP? ○ Yes ● No

If yes, please specify:

9.3) Does this waste stream contain Benzene? ○ Yes ● No

If you answered "No" to question 9.2, please skip to section 10.

9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ○ Yes ○ No

9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ○ Yes ○ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "No" to question 9.3 <u>and</u> 9.4, please skip to Section 10.

9.6) Does the waste contain > 10% water? ○ Yes ○ No

9.7) What is the TAB quantity for your facility? Mg/year

9.8) Does the waste contain >1.0 mg/kg total Benzene? ○ Yes ○ No

9.9) What is the total Benzene concentration in your waste? (concentration) (unit)

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

10.1) Is this waste intended for fuel blending? ○ Yes* ● No

If you answered 'Yes' to question 10.1, please enter the following:

Heat value (BTU/lb.) _____

Chlorine (%) _____

Water (%) _____

Solids (%) _____

10.2) Is this waste intended for reclamation? ○ Yes ● No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: **Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)**

Constituent	Concentration	UHC?

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Comments:
logged in

Generator: Frank Williams as agent for The Mercury Refining Remedial Design Group — Authorized Generator Signature

Frank Williams as agent for The Mercury Refining Remedial Design Group — Printed Generator Name

Company: Brown and Caldwell Title: Supervising Geologist Date: 12/22/10

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions.

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws.

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

EQ - The Environmental Quality Company
Waste Characterization Report

☐ *I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.*

☐	**Michigan Disposal Waste Treatment Plant** (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
☐	**Wayne Disposal, Inc.** (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
✓	**EQ Detroit, Inc.** (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID980991566
☐	**EQ Ohio (Envirite of Ohio)** (Stabilization and Treatment)	2050 Central Avenue, SE, Canton, OH 44707 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #OHD980568992
☐	**EQ Pennsylvania (Envirite of Pennsylvania)** (Stabilization and Treatment)	730 Vogelsong Road, York, PA 17404 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #PAD010154045
☐	**EQ Oklahoma, Inc.** (Stabilization, Wastewater Treatment)	2700 South 25th West Avenue, Tulsa, OK 74107-3435 Phone: 918-582-9595 Fax: 918-560-5252	EPA ID #OKD000402396
☐	**EQ Resource Recovery, Inc.** (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: 734-727-5500 Fax: 734-326-4033	EPA ID #MID060975844
☐	**EQ Florida, Inc.** (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
☐	**EQ Detroit Transfer and Processing** (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MIK939928313
☐	**EQIS Indianapolis Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #INR000125641
☐	**EQIS Atlanta Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID #GAR000039776
☐	**EQ Augusta, Inc.** (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Please note, this profile should not be used for wastes destined to EQ Illinois (Envirite of Illinois). For more information, please contact our National Service Center at (800)592-5489.

Waste Common Name: Non-Hazardous mercury-contaminated soil

Section 1 - Generator & Customer Info

SIC/NAICS*:

Generator EPA ID: NYD-048-148-175

Generator: The Mercury Refining Remedial Design Gro
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210
County:

Mailing Address
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210

Generator Contact
Name: Frank Williams
Title: Professional Geo.
Phone: (518) 472-1988
Fax: ( ) -

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

EQ Customer No.: 12840

Invoicing Company
Company: LAND REMEDIATION INC
Address: 1644 STATE ROUTE 43
City: AVERILL PARK
State: NY Zip: 12018
Country:

Invoicing Contact
Name: WILLIAM LINDHEIMER
Phone: (518) 766-4105
Fax: (518) 766-4106

Technical Contact
Name: Keith Decker
Phone: (518) 229-7214
Fax: ( ) -
Mobile: (518) 229-7214 Pager: ( ) -
E-mail: kad@land-remediation.com

Section 2 - Shipping & Packaging Info

2.1) Shipping Volume & Unit: 50 drums Frequency: Year

2.2) DOT Shipping Name: Non-hazardous regulated solids

2.3) Is this waste surcharge exempt? ○ Yes ● No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

- ☐ Bulk Solid (yd ^{3}< 2000 lbs/yd ^{3})
- ☐ Bulk Solid (Ton > 2000 lbs./yd ^{3})
- ☐ Bulk Liquids (Gallon)
- ☐ Totes, Size
- ☐ Cubic Yard Boxes/Bags
- ☑ Drums, Size 55-gallon
- ☐ Other (palletized, 5 gal. Pail, etc.)

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

3.1) Color: VARIES 3.2) Odor: none

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ○ Yes ● No

3.4) Physical State at 70 °F: ☑ Solid ☐ Dust/Powder ☐ Liquid ☐ Sludge

3.5) What is the pH of this waste? ☐ ≤ 2 ☐ 2.1-4.9 ☑ 5-10 ☐ 10.1-12.4 ☐ ≥ 12.5

3.6) What is the flash point of this waste? ○ <90 °F ○ 90-139 °F ○ 140-199 °F ● ≥ 200 °F

3.7) Does this waste contain? **(check all that apply)** ☑ **None** ☐ Free Liquids ☐ Oily Residue ☐ Metal Fines

- ☐ Biodegradable Sorbants
- ☐ Amines
- ☐ Ammonia
- ☐ Water Reactive
- ☐ Biohazard
- ☐ Aluminum
- ☐ Shock Sensitive Waste
- ☐ Reactive Waste
- ☐ Radioactive Waste
- ☐ Explosives
- ☐ Pyrophoric Waste
- ☐ Isocyanates
- ☐ Asbestos - non-friable
- ☐ Asbestos - friable
- ☐ Dioxins
- ☐ Furans

Section 4 - Composition / Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

Moisture	from	0.	to	10. %
Soil cuttings	from	90.	to	100. %

4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).

Soil cuttings generated from drilling process for installation of wells and site investigation. Previous mercury retorting facility, now closed.

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ○ Yes ● No

Comments:

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ○ Yes ● No

Comments:

5.3) Do any State Hazardous Waste Codes apply? ○ Yes ● No

Comments:

5.4) Is this waste intended for wastewater treatment? ○ Yes* ● No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
****If you answered "Yes" to question 5.4, please complete the WCR Addendum.***

Section 6 - Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction Levels? ○ Yes ● No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ○ Yes ● No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ○ Yes ● No

6.2) Is the waste an oxidizer (D001)? ○ Yes ● No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ○ Yes ● No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ○ Yes ● No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: ○ **Generator Knowledge** ● **Analysis*** ○ **MSDS***

***Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.**

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D004	Arsenic	5	● Below	○ Above	
D005	Barium	100	● Below	○ Above	
D006	Cadmium	1	● Below	○ Above	
D007	Chromium	5	● Below	○ Above	
D008	Lead	5	● Below	○ Above	
D009	Mercury	0.2	● Below	○ Above	
D010	Selenium	1	● Below	○ Above	
D011	Silver	5	● Below	○ Above	
D012	Endrin	0.02	● Below	○ Above	
D013	Lindane	0.4	● Below	○ Above	
D014	Methoxychlor	10	● Below	○ Above	
D015	Toxaphene	0.5	● Below	○ Above	
D016	2,4-D	10	● Below	○ Above	
D017	2,4,5-TP (Silvex)	1	● Below	○ Above	
D018	Benzene	0.5	● Below	○ Above	
D019	Carbon Tetrachloride	0.5	● Below	○ Above	
D020	Chlordane	0.03	● Below	○ Above	
D021	Chlorobenzene	100	● Below	○ Above	
D022	Chloroform	6.0	● Below	○ Above	
D023	o-Cresol	200	● Below	○ Above	

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D024	m-Cresol	200	● Below	○ Above	
D025	p-Cresol	200	● Below	○ Above	
D026	Cresols	200	● Below	○ Above	
D027	1,4-Dichlorobenzene	7.5	● Below	○ Above	
D028	1,2-Dicholoroethane	0.5	● Below	○ Above	
D029	1,1-Dichloroethylene	0.7	● Below	○ Above	
D030	2,4-Dinitrotoluene	0.13	● Below	○ Above	
D031	Heptachlor	0.008	● Below	○ Above	
D032	Hexachlorobenzene	0.13	● Below	○ Above	
D033	Hexachlorobutadiene	0.5	● Below	○ Above	
D034	Hexachloroethane	3.0	● Below	○ Above	
D035	Methyl Ethyl Ketone	200	● Below	○ Above	
D036	Nitrobenzene	2	● Below	○ Above	
D037	Pentachlorophenol	100	● Below	○ Above	
D038	Pyridine	5	● Below	○ Above	
D039	Tetrachloroethylene	0.7	● Below	○ Above	
D040	Trichloroethylene	0.5	● Below	○ Above	
D041	2,4,5-Trichlorophenol	400	● Below	○ Above	
D042	2,4,6-Trichlorophenol	2	● Below	○ Above	
D043	Vinyl Chloride	0.2	● Below	○ Above	

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ○ Yes ● No

If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

7.1) Is this a Michigan non-hazardous liquid industrial waste? ○ Yes ● No

Comments:

7.2) Is this a Universal waste? ○ Yes ● No

7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ○ Yes ● No

7.4) Is this waste a recoverable petroleum product? ○ Yes ● No

7.5) Is this waste used oil as defined by 40 CFR Part 279? ○ Yes ● No

Section 8 - TSCA Information

8.1) What is the concentration of PCBs in the waste? ● None ○ 0-5 ppm ○ 6-49 ppm ○ 50-499 ppm ○ 500+ ppm

8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ○ Yes ● No

If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.

8.3) Has this waste been processed into a non-liquid form? ○ Yes ○ No

If yes, what was the concentration of PCBs prior to processing? (ppm) ○ N/A ○ 0-499 ○ 500+

8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ○ Yes ○ No

8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ○ Yes ○ No

8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ○ N/A ○ Yes ○ No

Section 9 - Clean Air Act Information

9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ○ Yes ● No

(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)

For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.

9.2) Is this site, or waste, subject to any other MACT or NESHAP? ○ Yes ● No

If yes, please specify:

9.3) Does this waste stream contain Benzene? ○ Yes ● No

If you answered "No" to question 9.2, please skip to section 10.

9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ○ Yes ○ No

9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ○ Yes ○ No

For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "No" to question 9.3 <u>and</u> 9.4, please skip to Section 10.

9.6) Does the waste contain > 10% water? ○ Yes ○ No

9.7) What is the TAB quantity for your facility? Mg/year

9.8) Does the waste contain >1.0 mg/kg total Benzene? ○ Yes ○ No

9.9) What is the total Benzene concentration in your waste? (concentration) (unit)

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

10.1) Is this waste intended for fuel blending? ○ Yes* ● No

If you answered 'Yes' to question 10.1, please enter the following:

Heat value (BTU/lb.) _____

Chlorine (%) _____

Water (%) _____

Solids (%) _____

10.2) Is this waste intended for reclamation? ○ Yes ● No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: **Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)**

Constituent	Concentration	UHC?

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Comments:
logged in

Generator: [signature] as agent for The Mercury Refining Remedial Design Group — Authorized Generator Signature

Frank Williams as agent for The Mercury Refining Remedial Design Group — Printed Generator Name

Company: Brown and Caldwell Title: Supervising Geologist Date: 12/27/10

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions.

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws.

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

EQ - The Environmental Quality Company
Waste Characterization Report

☐ *I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.*

☐ **Michigan Disposal Waste Treatment Plant** (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
☐ **Wayne Disposal, Inc.** (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
☑ **EQ Detroit, Inc.** (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID980991566
☐ **EQ Ohio (Envirite of Ohio)** (Stabilization and Treatment)	2050 Central Avenue, SE, Canton, OH 44707 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #OHD980568992
☐ **EQ Pennsylvania (Envirite of Pennsylvania)** (Stabilization and Treatment)	730 Vogelsong Road, York, PA 17404 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #PAD010154045
☐ **EQ Oklahoma, Inc.** (Stabilization, Wastewater Treatment)	2700 South 25th West Avenue, Tulsa, OK 74107-3435 Phone: 918-582-9595 Fax: 918-560-5252	EPA ID #OKD000402396
☐ **EQ Resource Recovery, Inc.** (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: 734-727-5500 Fax: 734-326-4033	EPA ID #MID060975844
☐ **EQ Florida, Inc.** (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
☐ **EQ Detroit Transfer and Processing** (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MIK939928313
☐ **EQIS Indianapolis Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #INR000125641
☐ **EQIS Atlanta Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID #GAR000039776
☐ **EQ Augusta, Inc.** (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Please note, this profile should not be used for wastes destined to EQ Illinois (Envirite of Illinois). For more information, please contact our National Service Center at (800)592-5489.

Waste Common Name: Non-Hazardous mercury contaminated water

Section 1 - Generator & Customer Info

SIC/NAICS*:

Generator EPA ID: NYD-048-148-175

Generator: The Mercury Refining Remedial Design Gro
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210
County:

Mailing Address
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210

Generator Contact
Name: Frank Williams
Title: Professional Geo.
Phone: (518) 472-1988
Fax: ( ) -

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

EQ Customer No.: 12840

Invoicing Company
Company: LAND REMEDIATION INC
Address: 1644 STATE ROUTE 43
City: AVERILL PARK
State: NY Zip: 12018
Country:

Invoicing Contact
Name: WILLIAM LINDHEIMER
Phone: (518) 766-4105
Fax: (518) 766-4106

Technical Contact
Name: Keith Decker
Phone: (518) 229-7214
Fax: ( ) -
Mobile: (518) 229-7214 Pager: ( ) -
E-mail: kad@land-remediation.com

Section 2 - Shipping & Packaging Info

2.1) Shipping Volume & Unit: 50 drums Frequency: Year

2.2) DOT Shipping Name: Non-regulated material

2.3) Is this waste surcharge exempt? ○ Yes ● No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

- ☐ Bulk Solid (yd ^{3}< 2000 lbs/yd ^{3})
- ☐ Totes, Size
- ☐ Other (palletized, 5 gal. Pail, etc.)
- ☐ Bulk Solid (Ton > 2000 lbs./yd ^{3})
- ☐ Cubic Yard Boxes/Bags
- ☐ Bulk Liquids (Gallon)
- ☑ Drums, Size 55-gallon

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

3.1) Color: VARIES 3.2) Odor: none

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ○ Yes ● No

3.4) Physical State at 70 °F: ☐ Solid ☐ Dust/Powder ☑ Liquid ☑ Sludge

3.5) What is the pH of this waste? ☐ ≤ 2 ☐ 2.1-4.9 ☑ 5-10 ☐ 10.1-12.4 ☐ ≥ 12.5

3.6) What is the flash point of this waste? ○ <90 °F ○ 90-139 °F ○ 140-199 °F ● ≥ 200 °F

3.7) Does this waste contain? **(check all that apply)**

- ☐ **None**
- ☑ Free Liquids
- ☐ Oily Residue
- ☐ Metal Fines
- ☐ Biodegradable Sorbants
- ☐ Amines
- ☐ Ammonia
- ☐ Water Reactive
- ☐ Biohazard
- ☐ Aluminum
- ☐ Shock Sensitive Waste
- ☐ Reactive Waste
- ☐ Radioactive Waste
- ☐ Explosives
- ☐ Pyrophoric Waste
- ☐ Isocyanates
- ☐ Asbestos - non-friable
- ☐ Asbestos - friable
- ☐ Dioxins
- ☐ Furans

Section 4 - Composition / Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

Sediment/mud from 2. to 10. %

Water from 80. to 90. %

4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).

Ground water generated from drilling process for installation of wells and site investigation. Previous mercury retorting facility, now closed.

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ○ Yes ● No

Comments:

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ○ Yes ● No

Comments:

5.3) Do any State Hazardous Waste Codes apply? ○ Yes ● No

Comments:

5.4) Is this waste intended for wastewater treatment? ○ Yes* ● No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
****If you answered "Yes" to question 5.4, please complete the WCR Addendum.***

Section 6 - Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction Levels? ○ Yes ● No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ○ Yes ● No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ○ Yes ● No

6.2) Is the waste an oxidizer (D001)? ○ Yes ● No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ○ Yes ● No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ○ Yes ● No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: ○ **Generator Knowledge** ● **Analysis*** ○ **MSDS***

***Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.**

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D004	Arsenic	5	● Below	○ Above	
D005	Barium	100	● Below	○ Above	
D006	Cadmium	1	● Below	○ Above	
D007	Chromium	5	● Below	○ Above	
D008	Lead	5	● Below	○ Above	
D009	Mercury	0.2	● Below	○ Above	
D010	Selenium	1	● Below	○ Above	
D011	Silver	5	● Below	○ Above	
D012	Endrin	0.02	● Below	○ Above	
D013	Lindane	0.4	● Below	○ Above	
D014	Methoxychlor	10	● Below	○ Above	
D015	Toxaphene	0.5	● Below	○ Above	
D016	2,4-D	10	● Below	○ Above	
D017	2,4,5-TP (Silvex)	1	● Below	○ Above	
D018	Benzene	0.5	● Below	○ Above	
D019	Carbon Tetrachloride	0.5	● Below	○ Above	
D020	Chlordane	0.03	● Below	○ Above	
D021	Chlorobenzene	100	● Below	○ Above	
D022	Chloroform	6.0	● Below	○ Above	
D023	o-Cresol	200	● Below	○ Above	

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D024	m-Cresol	200	● Below	○ Above	
D025	p-Cresol	200	● Below	○ Above	
D026	Cresols	200	● Below	○ Above	
D027	1,4-Dichlorobenzene	7.5	● Below	○ Above	
D028	1,2-Dicholoroethane	0.5	● Below	○ Above	
D029	1,1-Dichloroethylene	0.7	● Below	○ Above	
D030	2,4-Dinitrotoluene	0.13	● Below	○ Above	
D031	Heptachlor	0.008	● Below	○ Above	
D032	Hexachlorobenzene	0.13	● Below	○ Above	
D033	Hexachlorobutadiene	0.5	● Below	○ Above	
D034	Hexachloroethane	3.0	● Below	○ Above	
D035	Methyl Ethyl Ketone	200	● Below	○ Above	
D036	Nitrobenzene	2	● Below	○ Above	
D037	Pentachlorophenol	100	● Below	○ Above	
D038	Pyridine	5	● Below	○ Above	
D039	Tetrachloroethylene	0.7	● Below	○ Above	
D040	Trichloroethylene	0.5	● Below	○ Above	
D041	2,4,5-Trichlorophenol	400	● Below	○ Above	
D042	2,4,6-Trichlorophenol	2	● Below	○ Above	
D043	Vinyl Chloride	0.2	● Below	○ Above	

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ○ Yes ● No

If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

7.1) Is this a Michigan non-hazardous liquid industrial waste? ● Yes ○ No 029L

Comments:

7.2) Is this a Universal waste? ○ Yes ● No

7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ○ Yes ● No

7.4) Is this waste a recoverable petroleum product? ○ Yes ● No

7.5) Is this waste used oil as defined by 40 CFR Part 279? ○ Yes ● No

Section 8 - TSCA Information

8.1) What is the concentration of PCBs in the waste? ● None ○ 0-5 ppm ○ 6-49 ppm ○ 50-499 ppm ○ 500+ ppm

8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ○ Yes ● No

If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.

8.3) Has this waste been processed into a non-liquid form? ○ Yes ○ No

If yes, what was the concentration of PCBs prior to processing? (ppm) ○ N/A ○ 0-499 ○ 500+

8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ○ Yes ○ No

8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ○ Yes ○ No

8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ○ N/A ○ Yes ○ No

Section 9 - Clean Air Act Information

9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ○ Yes ● No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)
For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.

9.2) Is this site, or waste, subject to any other MACT or NESHAP? ○ Yes ● No

If yes, please specify:

9.3) Does this waste stream contain Benzene? ○ Yes ● No

If you answered "No" to question 9.2, please skip to section 10.

9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ○ Yes ○ No

9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ○ Yes ○ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "No" to question 9.3 <u>and</u> 9.4, please skip to Section 10.

9.6) Does the waste contain > 10% water? ○ Yes ○ No

9.7) What is the TAB quantity for your facility? Mg/year

9.8) Does the waste contain >1.0 mg/kg total Benzene? ○ Yes ○ No

9.9) What is the total Benzene concentration in your waste? (concentration) (unit)

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

10.1) Is this waste intended for fuel blending? ○ Yes* ● No

If you answered 'Yes' to question 10.1, please enter the following:

Heat value (BTU/lb.) _____

Chlorine (%) _____

Water (%) _____

Solids (%) _____

10.2) Is this waste intended for reclamation? ○ Yes ● No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: **Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)**

Constituent	Concentration	UHC?

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Comments:
logged in

Generator: [signature] as agent for The Mercury Refining Remedial Design Group — Frank Williams as agent for The Mercury Refining Remedial Design Group

Authorized Generator Signature — *Printed Generator Name*

Company: Brown and Caldwell Title: Supervising Geologist Date: 12/27/10

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions.

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws.

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

EQ - The Environmental Quality Company
Waste Characterization Report

☐ *I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.*

☐ **Michigan Disposal Waste Treatment Plant** (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
☐ **Wayne Disposal, Inc.** (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
☑ **EQ Detroit, Inc.** (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID980991566
☐ **EQ Ohio (Envirite of Ohio)** (Stabilization and Treatment)	2050 Central Avenue, SE, Canton, OH 44707 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #OHD980568992
☐ **EQ Pennsylvania (Envirite of Pennsylvania)** (Stabilization and Treatment)	730 Vogelsong Road, York, PA 17404 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #PAD010154045
☐ **EQ Oklahoma, Inc.** (Stabilization, Wastewater Treatment)	2700 South 25th West Avenue, Tulsa, OK 74107-3435 Phone: 918-582-9595 Fax: 918-560-5252	EPA ID #OKD000402396
☐ **EQ Resource Recovery, Inc.** (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: 734-727-5500 Fax: 734-326-4033	EPA ID #MID060975844
☐ **EQ Florida, Inc.** (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
☐ **EQ Detroit Transfer and Processing** (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MIK939928313
☐ **EQIS Indianapolis Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #INR000125641
☐ **EQIS Atlanta Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID #GAR000039776
☐ **EQ Augusta, Inc.** (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Please note, this profile should not be used for wastes destined to EQ Illinois (Envirite of Illinois). For more information, please contact our National Service Center at (800)592-5489.

Waste Common Name: FREE MERCURY- CONTAMINATED MUD / WATER

Section 1 - Generator & Customer Info

SIC/NAICS*:

Generator EPA ID: NYD-048-148-175

Generator: THE MERCURY REFINING REMEDIAL DESIGN
Address: 234 HUDSON AVENUE
City: ALBANY
State: NY Zip: 12210
County:

Mailing Address
Address: 234 HUDSON AVENUE
City: ALBANY
State: NY Zip: 12210

Generator Contact
Name:
Title:
Phone: (518) 472-1988
Fax: ( ) -

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

EQ Customer No.: 12840

Invoicing Company
Company: LAND REMEDIATION INC
Address: 1644 STATE ROUTE 43
City: AVERILL PARK
State: NY Zip: 12018
Country:

Invoicing Contact
Name: WILLIAM LINDHEIMER
Phone: (518) 766-4105
Fax: (518) 766-4106

Technical Contact
Name: Keith Decker
Phone: (518) 229-7214
Fax: ( ) -
Mobile: (518) 229-7214 Pager: ( ) -
E-mail: kad@land-remediation.com

Section 2 - Shipping & Packaging Info

2.1) Shipping Volume & Unit: 20 drums Frequency: Year

2.2) DOT Shipping Name: Hazardous waste, liquid, n.o.s.(Mercury), NA 3077, 9, PG III

2.3) Is this waste surcharge exempt? ○ Yes ● No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

- ☐ Bulk Solid (yd ^{3}< 2000 lbs/yd ^{3})
- ☐ Totes, Size
- ☐ Other (palletized, 5 gal. Pail, etc.)
- ☐ Bulk Solid (Ton > 2000 lbs./yd ^{3})
- ☐ Cubic Yard Boxes/Bags
- ☐ Bulk Liquids (Gallon)
- ☑ Drums, Size 55-gallon

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

3.1) Color: VARIES 3.2) Odor: none

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ○ Yes ● No

3.4) Physical State at 70 °F: ☐ Solid ☐ Dust/Powder ☑ Liquid ☑ Sludge

3.5) What is the pH of this waste? ☐ ≤ 2 ☐ 2.1-4.9 ☑ 5-10 ☐ 10.1-12.4 ☐ ≥ 12.5

3.6) What is the flash point of this waste? ○ <90 °F ○ 90-139 °F ○ 140-199 °F ● ≥ 200 °F

3.7) Does this waste contain? **(check all that apply)**

		☐ **None**	☑ Free Liquids	☐ Oily Residue	☐ Metal Fines
☐ Biodegradable Sorbants	☐ Amines	☐ Ammonia	☐ Water Reactive	☐ Biohazard	☐ Aluminum
☐ Shock Sensitive Waste	☐ Reactive Waste	☐ Radioactive Waste	☐ Explosives	☐ Pyrophoric Waste	☐ Isocyanates
☐ Asbestos - non-friable	☐ Asbestos - friable	☐ Dioxins	☐ Furans		

Section 4 - Composition / Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

Free Mercury	from	0.1	to	3.	%
Sediment/mud	from	60.	to	80.	%
Water	from	20.	to	40.	%

4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).

Sediments/mud and ground water generated from drilling process for installation of wells and site investigation. Previous mercury retorting facility, now closed. *Drums for retort.*

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ○ Yes ● No

Comments:

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ● Yes ○ No D009

Comments:

5.3) Do any State Hazardous Waste Codes apply? ○ Yes ● No

Comments:

5.4) Is this waste intended for wastewater treatment? ○ Yes* ● No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
****If you answered "Yes" to question 5.4, please complete the WCR Addendum.***

Section 6 - Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction Levels? ● Yes ○ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ○ Yes ● No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ○ Yes ● No

6.2) Is the waste an oxidizer (D001)? ○ Yes ● No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ○ Yes ● No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ○ Yes ● No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: ○ **Generator Knowledge** ● **Analysis*** ○ **MSDS***

***Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.**

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D004	Arsenic	5	● Below	○ Above	
D005	Barium	100	● Below	○ Above	
D006	Cadmium	1	● Below	○ Above	
D007	Chromium	5	● Below	○ Above	
D008	Lead	5	● Below	○ Above	
D009	Mercury	0.2	○ Below	● Above	
D010	Selenium	1	● Below	○ Above	
D011	Silver	5	● Below	○ Above	
D012	Endrin	0.02	● Below	○ Above	
D013	Lindane	0.4	● Below	○ Above	
D014	Methoxychlor	10	● Below	○ Above	
D015	Toxaphene	0.5	● Below	○ Above	
D016	2,4-D	10	● Below	○ Above	
D017	2,4,5-TP (Silvex)	1	● Below	○ Above	
D018	Benzene	0.5	● Below	○ Above	
D019	Carbon Tetrachloride	0.5	● Below	○ Above	
D020	Chlordane	0.03	● Below	○ Above	
D021	Chlorobenzene	100	● Below	○ Above	
D022	Chloroform	6.0	● Below	○ Above	
D023	o-Cresol	200	● Below	○ Above	

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D024	m-Cresol	200	● Below	○ Above	
D025	p-Cresol	200	● Below	○ Above	
D026	Cresols	200	● Below	○ Above	
D027	1,4-Dichlorobenzene	7.5	● Below	○ Above	
D028	1,2-Dicholoroethane	0.5	● Below	○ Above	
D029	1,1-Dichloroethylene	0.7	● Below	○ Above	
D030	2,4-Dinitrotoluene	0.13	● Below	○ Above	
D031	Heptachlor	0.008	● Below	○ Above	
D032	Hexachlorobenzene	0.13	● Below	○ Above	
D033	Hexachlorobutadiene	0.5	● Below	○ Above	
D034	Hexachloroethane	3.0	● Below	○ Above	
D035	Methyl Ethyl Ketone	200	● Below	○ Above	
D036	Nitrobenzene	2	● Below	○ Above	
D037	Pentachlorophenol	100	● Below	○ Above	
D038	Pyridine	5	● Below	○ Above	
D039	Tetrachloroethylene	0.7	● Below	○ Above	
D040	Trichloroethylene	0.5	● Below	○ Above	
D041	2,4,5-Trichlorophenol	400	● Below	○ Above	
D042	2,4,6-Trichlorophenol	2	● Below	○ Above	
D043	Vinyl Chloride	0.2	● Below	○ Above	

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ○ Yes ● No

If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

7.1) Is this a Michigan non-hazardous liquid industrial waste? ○ Yes ● No 029L

Comments:

7.2) Is this a Universal waste? ○ Yes ● No

7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ○ Yes ● No

7.4) Is this waste a recoverable petroleum product? ○ Yes ● No

7.5) Is this waste used oil as defined by 40 CFR Part 279? ○ Yes ● No

Section 8 - TSCA Information

8.1) What is the concentration of PCBs in the waste? ● None ○ 0-5 ppm ○ 6-49 ppm ○ 50-499 ppm ○ 500+ ppm

8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ○ Yes ● No

If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.

8.3) Has this waste been processed into a non-liquid form? ○ Yes ○ No

If yes, what was the concentration of PCBs prior to processing? (ppm) ○ N/A ○ 0-499 ○ 500+

8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ○ Yes ○ No

8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ○ Yes ○ No

8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ○ N/A ○ Yes ○ No

Section 9 - Clean Air Act Information

9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ○ Yes ● No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)
For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.

9.2) Is this site, or waste, subject to any other MACT or NESHAP? ○ Yes ● No

If yes, please specify:

9.3) Does this waste stream contain Benzene? ○ Yes ● No

If you answered "No" to question 9.2, please skip to section 10.

9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ○ Yes ○ No

9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ○ Yes ○ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "No" to question 9.3 <u>and</u> 9.4, please skip to Section 10.

9.6) Does the waste contain > 10% water? ○ Yes ○ No

9.7) What is the TAB quantity for your facility? Mg/year

9.8) Does the waste contain >1.0 mg/kg total Benzene? ○ Yes ○ No

9.9) What is the total Benzene concentration in your waste? (concentration) (unit)

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

10.1) Is this waste intended for fuel blending? ○ Yes* ● No

If you answered 'Yes' to question 10.1, please enter the following:

Heat value (BTU/lb.) _____

Chlorine (%) _____

Water (%) _____

Solids (%) _____

10.2) Is this waste intended for reclamation? ○ Yes ● No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: **Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)**

Constituent	Concentration	UHC?

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Comments:
logged in

Generator: [signature] as agent for The Mercury Refining Remedial Design Group — Authorized Generator Signature

Frank Williams as agent for The Mercury Refining Remedial Design Group — Printed Generator Name

Company: Brown and Caldwell Title: Supervising Geologist Date: 1/4/11

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions.

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws.

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

EQ - The Environmental Quality Company
Waste Characterization Report

☐ *I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.*

☐	**Michigan Disposal Waste Treatment Plant** (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
☐	**Wayne Disposal, Inc.** (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
✓	**EQ Detroit, Inc.** (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID980991566
☐	**EQ Ohio (Envirite of Ohio)** (Stabilization and Treatment)	2050 Central Avenue, SE, Canton, OH 44707 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #OHD980568992
☐	**EQ Pennsylvania (Envirite of Pennsylvania)** (Stabilization and Treatment)	730 Vogelsong Road, York, PA 17404 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #PAD010154045
☐	**EQ Oklahoma, Inc.** (Stabilization, Wastewater Treatment)	2700 South 25th West Avenue, Tulsa, OK 74107-3435 Phone: 918-582-9595 Fax: 918-560-5252	EPA ID #OKD000402396
☐	**EQ Resource Recovery, Inc.** (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: 734-727-5500 Fax: 734-326-4033	EPA ID #MID060975844
☐	**EQ Florida, Inc.** (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
☐	**EQ Detroit Transfer and Processing** (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MIK939928313
☐	**EQIS Indianapolis Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #INR000125641
☐	**EQIS Atlanta Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID #GAR000039776
☐	**EQ Augusta, Inc.** (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Please note, this profile should not be used for wastes destined to EQ Illinois (Envirite of Illinois). For more information, please contact our National Service Center at (800)592-5489.

Waste Common Name: FREE-Mercury contaminated soil

Section 1 - Generator & Customer Info

SIC/NAICS*:

Generator EPA ID: NYD-048-148-175

Generator: The Mercury Refining Remedial Design Gro
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210
County:

Mailing Address
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210

Generator Contact
Name: Frank Williams
Title: Professional Geo.
Phone: (518) 472-1988
Fax: ( ) -

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

EQ Customer No.: 12840

Invoicing Company
Company: LAND REMEDIATION INC
Address: 1644 STATE ROUTE 43
City: AVERILL PARK
State: NY Zip: 12018
Country:

Invoicing Contact
Name: WILLIAM LINDHEIMER
Phone: (518) 766-4105
Fax: (518) 766-4106

Technical Contact
Name: Keith Decker
Phone: (518) 229-7214
Fax: ( ) -
Mobile: (518) 229-7214 Pager: ( ) -
E-mail: kad@land-remediation.com

Section 2 - Shipping & Packaging Info

2.1) Shipping Volume & Unit: 125 drums Frequency: Year

2.2) DOT Shipping Name: Hazardous Waste Solid, n.o.s. (Mercury), NA 3077, 9, PG III

2.3) Is this waste surcharge exempt? ○ Yes ● No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

- ☐ Bulk Solid (yd ^{3}< 2000 lbs/yd ^{3})
- ☐ Totes, Size
- ☐ Other (palletized, 5 gal. Pail, etc.)
- ☐ Bulk Solid (Ton > 2000 lbs./yd ^{3})
- ☐ Cubic Yard Boxes/Bags
- ☐ Bulk Liquids (Gallon)
- ☑ Drums, Size 55-gallon

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

3.1) Color: VARIES 3.2) Odor: none

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ○ Yes ● No

3.4) Physical State at 70 °F: ☑ Solid ☐ Dust/Powder ☐ Liquid ☐ Sludge

3.5) What is the pH of this waste? ☐ ≤ 2 ☐ 2.1-4.9 ☑ 5-10 ☐ 10.1-12.4 ☐ ≥ 12.5

3.6) What is the flash point of this waste? ○ <90 °F ○ 90-139 °F ○ 140-199 °F ● ≥ 200 °F

3.7) Does this waste contain? **(check all that apply)** ☑ **None** ☐ Free Liquids ☐ Oily Residue ☐ Metal Fines

- ☐ Biodegradable Sorbants
- ☐ Amines
- ☐ Ammonia
- ☐ Water Reactive
- ☐ Biohazard
- ☐ Aluminum
- ☐ Shock Sensitive Waste
- ☐ Reactive Waste
- ☐ Radioactive Waste
- ☐ Explosives
- ☐ Pyrophoric Waste
- ☐ Isocyanates
- ☐ Asbestos - non-friable
- ☐ Asbestos - friable
- ☐ Dioxins
- ☐ Furans

Section 4 - Composition / Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

Mercury	from	0.1	to	3. %
Moisture	from	0.	to	10. %
Soil cuttings	from	90.	to	100. %

4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).

Soil cuttings generated from drilling process for installation of wells and site investigation. Previous mercury retorting facility, now closed. *Drums for retort.*

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ○ Yes ● No

Comments:

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ● Yes ○ No D009

Comments:

5.3) Do any State Hazardous Waste Codes apply? ○ Yes ● No

Comments:

5.4) Is this waste intended for wastewater treatment? ○ Yes* ● No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
****If you answered "Yes" to question 5.4, please complete the WCR Addendum.***

Section 6 - Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction Levels? ● Yes ○ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ○ Yes ● No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ○ Yes ● No

6.2) Is the waste an oxidizer (D001)? ○ Yes ● No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ○ Yes ● No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ○ Yes ● No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: ○ **Generator Knowledge** ● **Analysis*** ○ **MSDS***

***Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.**

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D004	Arsenic	5	● Below	○ Above	
D005	Barium	100	● Below	○ Above	
D006	Cadmium	1	● Below	○ Above	
D007	Chromium	5	● Below	○ Above	
D008	Lead	5	● Below	○ Above	
D009	Mercury	0.2	○ Below	● Above	
D010	Selenium	1	● Below	○ Above	
D011	Silver	5	● Below	○ Above	
D012	Endrin	0.02	● Below	○ Above	
D013	Lindane	0.4	● Below	○ Above	
D014	Methoxychlor	10	● Below	○ Above	
D015	Toxaphene	0.5	● Below	○ Above	
D016	2,4-D	10	● Below	○ Above	
D017	2,4,5-TP (Silvex)	1	● Below	○ Above	
D018	Benzene	0.5	● Below	○ Above	
D019	Carbon Tetrachloride	0.5	● Below	○ Above	
D020	Chlordane	0.03	● Below	○ Above	
D021	Chlorobenzene	100	● Below	○ Above	
D022	Chloroform	6.0	● Below	○ Above	
D023	o-Cresol	200	● Below	○ Above	

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D024	m-Cresol	200	● Below	○ Above	
D025	p-Cresol	200	● Below	○ Above	
D026	Cresols	200	● Below	○ Above	
D027	1,4-Dichlorobenzene	7.5	● Below	○ Above	
D028	1,2-Dicholoroethane	0.5	● Below	○ Above	
D029	1,1-Dichloroethylene	0.7	● Below	○ Above	
D030	2,4-Dinitrotoluene	0.13	● Below	○ Above	
D031	Heptachlor	0.008	● Below	○ Above	
D032	Hexachlorobenzene	0.13	● Below	○ Above	
D033	Hexachlorobutadiene	0.5	● Below	○ Above	
D034	Hexachloroethane	3.0	● Below	○ Above	
D035	Methyl Ethyl Ketone	200	● Below	○ Above	
D036	Nitrobenzene	2	● Below	○ Above	
D037	Pentachlorophenol	100	● Below	○ Above	
D038	Pyridine	5	● Below	○ Above	
D039	Tetrachloroethylene	0.7	● Below	○ Above	
D040	Trichloroethylene	0.5	● Below	○ Above	
D041	2,4,5-Trichlorophenol	400	● Below	○ Above	
D042	2,4,6-Trichlorophenol	2	● Below	○ Above	
D043	Vinyl Chloride	0.2	● Below	○ Above	

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ○ Yes ● No

If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

7.1) Is this a Michigan non-hazardous liquid industrial waste? ○ Yes ● No

Comments:

7.2) Is this a Universal waste? ○ Yes ● No

7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ○ Yes ● No

7.4) Is this waste a recoverable petroleum product? ○ Yes ● No

7.5) Is this waste used oil as defined by 40 CFR Part 279? ○ Yes ● No

Section 8 - TSCA Information

8.1) What is the concentration of PCBs in the waste? ● None ○ 0-5 ppm ○ 6-49 ppm ○ 50-499 ppm ○ 500+ ppm

8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ○ Yes ● No

If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.

8.3) Has this waste been processed into a non-liquid form? ○ Yes ○ No

If yes, what was the concentration of PCBs prior to processing? (ppm) ○ N/A ○ 0-499 ○ 500+

8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ○ Yes ○ No

8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ○ Yes ○ No

8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ○ N/A ○ Yes ○ No

Section 9 - Clean Air Act Information

9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ○ Yes ● No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)
For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.

9.2) Is this site, or waste, subject to any other MACT or NESHAP? ○ Yes ● No

If yes, please specify:

9.3) Does this waste stream contain Benzene? ○ Yes ● No

If you answered "No" to question 9.2, please skip to section 10.

9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ○ Yes ○ No

9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ○ Yes ○ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "No" to question 9.3 <u>and</u> 9.4, please skip to Section 10.

9.6) Does the waste contain > 10% water? ○ Yes ○ No

9.7) What is the TAB quantity for your facility? Mg/year

9.8) Does the waste contain >1.0 mg/kg total Benzene? ○ Yes ○ No

9.9) What is the total Benzene concentration in your waste? (concentration) (unit)

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

10.1) Is this waste intended for fuel blending? ○ Yes* ● No

If you answered 'Yes' to question 10.1, please enter the following:

Heat value (BTU/lb.) _____

Chlorine (%) _____

Water (%) _____

Solids (%) _____

10.2) Is this waste intended for reclamation? ○ Yes ● No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: **Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)**

Constituent	Concentration	UHC?

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Comments:
logged in

Generator: [signature] as agent for The Mercury Refining Remedial Design Group — Authorized Generator Signature

Frank Williams as agent for The Mercury Refining Remedial Design Group — Printed Generator Name

Company: Brown and Caldwell Title: Supervising Geologist Date: 1/4/11

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions.

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws.

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

EQ - The Environmental Quality Company
Waste Characterization Report

☐ *I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.*

☐ **Michigan Disposal Waste Treatment Plant** (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
☐ **Wayne Disposal, Inc.** (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
✓ **EQ Detroit, Inc.** (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID980991566
☐ **EQ Ohio (Envirite of Ohio)** (Stabilization and Treatment)	2050 Central Avenue, SE, Canton, OH 44707 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #OHD980568992
☐ **EQ Pennsylvania (Envirite of Pennsylvania)** (Stabilization and Treatment)	730 Vogelsong Road, York, PA 17404 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #PAD010154045
☐ **EQ Oklahoma, Inc.** (Stabilization, Wastewater Treatment)	2700 South 25th West Avenue, Tulsa, OK 74107-3435 Phone: 918-582-9595 Fax: 918-560-5252	EPA ID #OKD000402396
☐ **EQ Resource Recovery, Inc.** (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: 734-727-5500 Fax: 734-326-4033	EPA ID #MID060975844
☐ **EQ Florida, Inc.** (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
☐ **EQ Detroit Transfer and Processing** (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MIK939928313
☐ **EQIS Indianapolis Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #INR000125641
☐ **EQIS Atlanta Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID #GAR000039776
☐ **EQ Augusta, Inc.** (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Please note, this profile should not be used for wastes destined to EQ Illinois (Envirite of Illinois). For more information, please contact our National Service Center at (800)592-5489.

Waste Common Name: DEBRIS

Section 1 - Generator & Customer Info

SIC/NAICS*:

Generator EPA ID: NYD-048-148-175

Generator: THE MERCURY REFINING REMEDIAL DESIGN Group
Address: 234 HUDSON AVENUE
City: ALBANY
State: NY Zip: 12210
County:

Mailing Address
Address: 234 HUDSON AVENUE
City: ALBANY
State: NY Zip: 12210

Generator Contact
Name:
Title:
Phone: (518) 472-1988
Fax: ( ) -

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

EQ Customer No.: 12840

Invoicing Company
Company: LAND REMEDIATION INC
Address: 1644 STATE ROUTE 43
City: AVERILL PARK
State: NY Zip: 12018
Country: USA

Invoicing Contact
Name:
Phone: ( ) -
Fax: ( ) -

Technical Contact
Name:
Phone: ( ) -
Fax: ( ) -
Mobile: ( ) - Pager: ( ) -
E-mail:

Section 2 - Shipping & Packaging Info

2.1) Shipping Volume & Unit: 25 DRUMS Frequency: Year

2.2) DOT Shipping Name: Hazardous waste, solid, n.o.s.

2.3) Is this waste surcharge exempt? ○ Yes ● No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

- ☐ Bulk Solid (yd^3 < 2000 lbs/yd^3)
- ☐ Bulk Solid (Ton > 2000 lbs./yd^3)
- ☐ Bulk Liquids (Gallon)
- ☐ Totes, Size
- ☐ Cubic Yard Boxes/Bags
- ☑ Drums, Size
- ☐ Other (palletized, 5 gal. Pail, etc.)

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

3.1) Color: VARIES 3.2) Odor: NONE

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ○ Yes ● No

3.4) Physical State at 70 °F: ☑ Solid ☐ Dust/Powder ☐ Liquid ☐ Sludge

3.5) What is the pH of this waste? ☐ ≤ 2 ☐ 2.1-4.9 ☑ 5-10 ☐ 10.1-12.4 ☐ ≥ 12.5

3.6) What is the flash point of this waste? ○ <90 °F ○ 90-139 °F ○ 140-199 °F ● ≥ 200 °F

3.7) Does this waste contain? **(check all that apply)** ☑ **None** ☐ Free Liquids ☐ Oily Residue ☐ Metal Fines

- ☐ Biodegradable Sorbants
- ☐ Amines
- ☐ Ammonia
- ☐ Water Reactive
- ☐ Biohazard
- ☐ Aluminum
- ☐ Shock Sensitive Waste
- ☐ Reactive Waste
- ☐ Radioactive Waste
- ☐ Explosives
- ☐ Pyrophoric Waste
- ☐ Isocyanates
- ☐ Asbestos - non-friable
- ☐ Asbestos - friable
- ☐ Dioxins
- ☐ Furans

Section 4 - Composition / Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

DEBRIS, PPE, WOOD, ASPHALT, ROCK, from 0. to 100. %

4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).

RESIDUAL CONSTRUCTION MATERIAL FROM INSTATLLATION OF MONITORING WELLS & SITE INVESTIGATION.

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ○ Yes ● No

Comments:

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ● Yes ○ No D009

Comments:

5.3) Do any State Hazardous Waste Codes apply? ○ Yes ● No

Comments:

5.4) Is this waste intended for wastewater treatment? ○ Yes* ● No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
****If you answered "Yes" to question 5.4, please complete the WCR Addendum.***

Section 6 - Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction Levels? ● Yes ○ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ○ Yes ● No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ● Yes ○ No

6.2) Is the waste an oxidizer (D001)? ○ Yes ● No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ○ Yes ● No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ○ Yes ● No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: ● **Generator Knowledge** ○ **Analysis*** ○ **MSDS***

***Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.**

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D004	Arsenic	5	● Below	○ Above	
D005	Barium	100	● Below	○ Above	
D006	Cadmium	1	● Below	○ Above	
D007	Chromium	5	● Below	○ Above	
D008	Lead	5	● Below	○ Above	
D009	Mercury	0.2	○ Below	● Above	
D010	Selenium	1	● Below	○ Above	
D011	Silver	5	● Below	○ Above	
D012	Endrin	0.02	● Below	○ Above	
D013	Lindane	0.4	● Below	○ Above	
D014	Methoxychlor	10	● Below	○ Above	
D015	Toxaphene	0.5	● Below	○ Above	
D016	2,4-D	10	● Below	○ Above	
D017	2,4,5-TP (Silvex)	1	● Below	○ Above	
D018	Benzene	0.5	● Below	○ Above	
D019	Carbon Tetrachloride	0.5	● Below	○ Above	
D020	Chlordane	0.03	● Below	○ Above	
D021	Chlorobenzene	100	● Below	○ Above	
D022	Chloroform	6.0	● Below	○ Above	
D023	o-Cresol	200	● Below	○ Above	

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D024	m-Cresol	200	● Below	○ Above	
D025	p-Cresol	200	● Below	○ Above	
D026	Cresols	200	● Below	○ Above	
D027	1,4-Dichlorobenzene	7.5	● Below	○ Above	
D028	1,2-Dicholoroethane	0.5	● Below	○ Above	
D029	1,1-Dichloroethylene	0.7	● Below	○ Above	
D030	2,4-Dinitrotoluene	0.13	● Below	○ Above	
D031	Heptachlor	0.008	● Below	○ Above	
D032	Hexachlorobenzene	0.13	● Below	○ Above	
D033	Hexachlorobutadiene	0.5	● Below	○ Above	
D034	Hexachloroethane	3.0	● Below	○ Above	
D035	Methyl Ethyl Ketone	200	● Below	○ Above	
D036	Nitrobenzene	2	● Below	○ Above	
D037	Pentachlorophenol	100	● Below	○ Above	
D038	Pyridine	5	● Below	○ Above	
D039	Tetrachloroethylene	0.7	● Below	○ Above	
D040	Trichloroethylene	0.5	● Below	○ Above	
D041	2,4,5-Trichlorophenol	400	● Below	○ Above	
D042	2,4,6-Trichlorophenol	2	● Below	○ Above	
D043	Vinyl Chloride	0.2	● Below	○ Above	

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ○ Yes ● No

If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

7.1) Is this a Michigan non-hazardous liquid industrial waste? ○ Yes ● No

Comments:

7.2) Is this a Universal waste? ○ Yes ● No

7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ○ Yes ● No

7.4) Is this waste a recoverable petroleum product? ○ Yes ● No

7.5) Is this waste used oil as defined by 40 CFR Part 279? ○ Yes ● No

Section 8 - TSCA Information

8.1) What is the concentration of PCBs in the waste? ● None ○ 0-5 ppm ○ 6-49 ppm ○ 50-499 ppm ○ 500+ ppm

8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ○ Yes ● No

If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.

8.3) Has this waste been processed into a non-liquid form? ○ Yes ○ No

If yes, what was the concentration of PCBs prior to processing? (ppm) ○ N/A ○ 0-499 ○ 500+

8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ○ Yes ○ No

8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ○ Yes ○ No

8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ○ N/A ○ Yes ○ No

Section 9 - Clean Air Act Information

9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ○ Yes ● No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)
For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.

9.2) Is this site, or waste, subject to any other MACT or NESHAP? ○ Yes ● No

If yes, please specify:

9.3) Does this waste stream contain Benzene? ○ Yes ● No

If you answered "No" to question 9.2, please skip to section 10.

9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ○ Yes ○ No

9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ○ Yes ○ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "No" to question 9.3 <u>and</u> 9.4, please skip to Section 10.

9.6) Does the waste contain > 10% water? ○ Yes ○ No

9.7) What is the TAB quantity for your facility? Mg/year

9.8) Does the waste contain >1.0 mg/kg total Benzene? ○ Yes ○ No

9.9) What is the total Benzene concentration in your waste? (concentration) (unit)

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

10.1) Is this waste intended for fuel blending? ○ Yes* ● No

If you answered 'Yes' to question 10.1, please enter the following:

Heat value (BTU/lb.) _____

Chlorine (%) _____

Water (%) _____

Solids (%) _____

10.2) Is this waste intended for reclamation? ○ Yes ● No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: **Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)**

Constituent	Concentration	UHC?

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Comments:

Generator: _____ Frank Williams as agent for The Mercury Refining Remedial Design Group

Authorized Generator Signature *Printed Generator Name*

Company: Brown and Caldwell Title: Supervising Geologist Date: 1/20/11

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions.

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws.

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

EQ - The Environmental Quality Company
Waste Characterization Report

☐ *I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.*

☐	**Michigan Disposal Waste Treatment Plant** (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
☐	**Wayne Disposal, Inc.** (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
✓	**EQ Detroit, Inc.** (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID980991566
☐	**EQ Ohio (Envirite of Ohio)** (Stabilization and Treatment)	2050 Central Avenue, SE, Canton, OH 44707 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #OHD980568992
☐	**EQ Pennsylvania (Envirite of Pennsylvania)** (Stabilization and Treatment)	730 Vogelsong Road, York, PA 17404 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #PAD010154045
☐	**EQ Oklahoma, Inc.** (Stabilization, Wastewater Treatment)	2700 South 25th West Avenue, Tulsa, OK 74107-3435 Phone: 918-582-9595 Fax: 918-560-5252	EPA ID #OKD000402396
☐	**EQ Resource Recovery, Inc.** (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: 734-727-5500 Fax: 734-326-4033	EPA ID #MID060975844
☐	**EQ Florida, Inc.** (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
☐	**EQ Detroit Transfer and Processing** (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MIK939928313
☐	**EQIS Indianapolis Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #INR000125641
☐	**EQIS Atlanta Transfer and Processing** (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID #GAR000039776
☐	**EQ Augusta, Inc.** (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Please note, this profile should not be used for wastes destined to EQ Illinois (Envirite of Illinois). For more information, please contact our National Service Center at (800)592-5489.

Waste Common Name: Non-hazardous mercury contaminated mud/water

Section 1 - Generator & Customer Info

SIC/NAICS*:

Generator EPA ID: NYD-048-148-175

Generator: The Mercury Refining Remedial Design Gro
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210
County:

Mailing Address
Address: 234 Hudson Avenue
City: Albany
State: NY Zip: 12210

Generator Contact
Name: Frank Williams
Title: Professional Geo.
Phone: (518) 472-1988
Fax: ( ) -

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

EQ Customer No.: 12840

Invoicing Company
Company: LAND REMEDIATION INC
Address: 1644 STATE ROUTE 43
City: AVERILL PARK
State: NY Zip: 12018
Country:

Invoicing Contact
Name: WILLIAM LINDHEIMER
Phone: (518) 766-4105
Fax: (518) 766-4106

Technical Contact
Name: Keith Decker
Phone: (518) 229-7214
Fax: ( ) -
Mobile: (518) 229-7214 Pager: ( ) -
E-mail: kad@land-remediation.com

Section 2 - Shipping & Packaging Info

2.1) Shipping Volume & Unit: 50 drums Frequency: Year

2.2) DOT Shipping Name: Non-Regulated Liquids

2.3) Is this waste surcharge exempt? ○ Yes ● No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

- ☐ Bulk Solid (yd ^{3}< 2000 lbs/yd ^{3})
- ☐ Bulk Solid (Ton > 2000 lbs./yd ^{3})
- ☐ Bulk Liquids (Gallon)
- ☐ Totes, Size
- ☐ Cubic Yard Boxes/Bags
- ☑ Drums, Size 55-gallon
- ☐ Other (palletized, 5 gal. Pail, etc.)

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

3.1) Color: VARIES 3.2) Odor: none

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ○ Yes ● No

3.4) Physical State at 70 ^{o}F: ☐ Solid ☐ Dust/Powder ☑ Liquid ☑ Sludge

3.5) What is the pH of this waste? ☐ ≤ 2 ☐ 2.1-4.9 ☑ 5-10 ☐ 10.1-12.4 ☐ ≥ 12.5

3.6) What is the flash point of this waste? ○ <90 ^{o}F ○ 90-139 ^{o}F ○ 140-199 ^{o}F ● ≥ 200 ^{o}F

3.7) Does this waste contain? **(check all that apply)** ☐ **None** ☑ Free Liquids ☐ Oily Residue ☐ Metal Fines

☐ Biodegradable Sorbants ☐ Amines ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum

☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Radioactive Waste ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates

☐ Asbestos - non-friable ☐ Asbestos - friable ☐ Dioxins ☐ Furans

Section 4 - Composition / Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

Sediment/mud	from	60.	to	80.	%
Water	from	20.	to	30.	%

4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).

Sediments/mud and ground water generated from drilling process for installation of wells and site investigation. Previous mercury retorting facility, now closed.

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ○ Yes ● No

Comments:

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ○ Yes ● No

Comments:

5.3) Do any State Hazardous Waste Codes apply? ○ Yes ● No

Comments:

5.4) Is this waste intended for wastewater treatment? ○ Yes* ● No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
****If you answered "Yes" to question 5.4, please complete the WCR Addendum.***

Section 6 - Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction Levels? ○ Yes ● No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ○ Yes ● No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ○ Yes ● No

6.2) Is the waste an oxidizer (D001)? ○ Yes ● No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ○ Yes ● No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ○ Yes ● No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: ○ **Generator Knowledge** ● **Analysis*** ○ **MSDS***

***Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.**

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D004	Arsenic	5	● Below	○ Above	
D005	Barium	100	● Below	○ Above	
D006	Cadmium	1	● Below	○ Above	
D007	Chromium	5	● Below	○ Above	
D008	Lead	5	● Below	○ Above	
D009	Mercury	0.2	● Below	○ Above	
D010	Selenium	1	● Below	○ Above	
D011	Silver	5	● Below	○ Above	
D012	Endrin	0.02	● Below	○ Above	
D013	Lindane	0.4	● Below	○ Above	
D014	Methoxychlor	10	● Below	○ Above	
D015	Toxaphene	0.5	● Below	○ Above	
D016	2,4-D	10	● Below	○ Above	
D017	2,4,5-TP (Silvex)	1	● Below	○ Above	
D018	Benzene	0.5	● Below	○ Above	
D019	Carbon Tetrachloride	0.5	● Below	○ Above	
D020	Chlordane	0.03	● Below	○ Above	
D021	Chlorobenzene	100	● Below	○ Above	
D022	Chloroform	6.0	● Below	○ Above	
D023	o-Cresol	200	● Below	○ Above	

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D024	m-Cresol	200	● Below	○ Above	
D025	p-Cresol	200	● Below	○ Above	
D026	Cresols	200	● Below	○ Above	
D027	1,4-Dichlorobenzene	7.5	● Below	○ Above	
D028	1,2-Dicholoroethane	0.5	● Below	○ Above	
D029	1,1-Dichloroethylene	0.7	● Below	○ Above	
D030	2,4-Dinitrotoluene	0.13	● Below	○ Above	
D031	Heptachlor	0.008	● Below	○ Above	
D032	Hexachlorobenzene	0.13	● Below	○ Above	
D033	Hexachlorobutadiene	0.5	● Below	○ Above	
D034	Hexachloroethane	3.0	● Below	○ Above	
D035	Methyl Ethyl Ketone	200	● Below	○ Above	
D036	Nitrobenzene	2	● Below	○ Above	
D037	Pentachlorophenol	100	● Below	○ Above	
D038	Pyridine	5	● Below	○ Above	
D039	Tetrachloroethylene	0.7	● Below	○ Above	
D040	Trichloroethylene	0.5	● Below	○ Above	
D041	2,4,5-Trichlorophenol	400	● Below	○ Above	
D042	2,4,6-Trichlorophenol	2	● Below	○ Above	
D043	Vinyl Chloride	0.2	● Below	○ Above	

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ○ Yes ● No

If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

7.1) Is this a Michigan non-hazardous liquid industrial waste? ● Yes ○ No 029L

Comments:

7.2) Is this a Universal waste? ○ Yes ● No

7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ○ Yes ● No

7.4) Is this waste a recoverable petroleum product? ○ Yes ● No

7.5) Is this waste used oil as defined by 40 CFR Part 279? ○ Yes ● No

Section 8 - TSCA Information

8.1) What is the concentration of PCBs in the waste? ● None ○ 0-5 ppm ○ 6-49 ppm ○ 50-499 ppm ○ 500+ ppm

8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ○ Yes ● No

If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.

8.3) Has this waste been processed into a non-liquid form? ○ Yes ○ No

If yes, what was the concentration of PCBs prior to processing? (ppm) ○ N/A ○ 0-499 ○ 500+

8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ○ Yes ○ No

8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ○ Yes ○ No

8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ○ N/A ○ Yes ○ No

Section 9 - Clean Air Act Information

9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ○ Yes ● No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)
For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.

9.2) Is this site, or waste, subject to any other MACT or NESHAP? ○ Yes ● No

If yes, please specify:

9.3) Does this waste stream contain Benzene? ○ Yes ● No

If you answered "No" to question 9.2, please skip to section 10.

9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ○ Yes ○ No

9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ○ Yes ○ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "No" to question 9.3 <u>and</u> 9.4, please skip to Section 10.

9.6) Does the waste contain > 10% water? ○ Yes ○ No

9.7) What is the TAB quantity for your facility? Mg/year

9.8) Does the waste contain >1.0 mg/kg total Benzene? ○ Yes ○ No

9.9) What is the total Benzene concentration in your waste? (concentration) (unit)

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

10.1) Is this waste intended for fuel blending? ○ Yes* ● No

If you answered 'Yes' to question 10.1, please enter the following:

Heat value (BTU/lb.)

Chlorine (%) _____

Water (%) _____

Solids (%) _____

10.2) Is this waste intended for reclamation? ○ Yes ● No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: **Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)**

Constituent	Concentration	UHC?

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

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Comments:
logged in

Generator: Frank Williams

Authorized Generator Signature

Frank Williams as agent for the Mercury Refining Site Remedial Action Group

Printed Generator Name

Company: Brown and Caldwell Title: Supervising Geologist Date: 10/18/12

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

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For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws.

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 048 148 175
2. Page 1 of 1
3. Emergency Response Phone: 518-229-7214
4. Manifest Tracking Number: 010292579 JJK

5. Generator's Name and Mailing Address: THE MERCURY REFINING REMEDI
234 HUDSON AVENUE
ALBANY, NY 12210
Generator's Phone: (518) 472-1988

Generator's Site Address (if different than mailing address):
234 HUDSON AVENUE
ALBANY, NY 12210

6. Transporter 1 Company Name: EQ northeast Inc — U.S. EPA ID Number: MAD084814136

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: EQ DETROIT, INC.
1923 FREDERICK
DETROIT, MI 48211
Facility's Phone: (313) 347-1300
U.S. EPA ID Number: MID 980 991 566

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s., (Mercury), 9, PGIII, (D009), ERG #171	10	DM	2550	P	D009		
	2. NA3082, Hazardous waste, liquid, n.o.s. (Mercury), 9, PGIII, ERG #171	1	DM	55	G	D009		
	3. NON-REGULATED SOLID MATERIAL	1	DM	550	P			
	4. Non Hazardous Liquid Waste, Not DOT Not RCRA Regulated, None, None, None	5	DM	275	G	029L		

14. Special Handling Instructions and Additional Information
01). A113001DET / (S,E) DEBRIS / ERG #171 (10)
02). A112000DET / MERCURY CONTAMINATED WATER / ERG #171 (1)
03). A112000DET / NON HAZARDOUS MERCURY CONTAMINATED SOIL (1)
04). A112002DET / (L) NON HAZARDOUS MERCURY CONTAMINATED WATER (5)

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AUTHORIZED AGENT FOR MERCURY REFINING REMEDIAL DESIGN GROUP - Adam R. Sherman — Signature: [signature] — Month 12 Day 04 Year 12

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: David MacLellan — Signature: [signature] — Month 12 Day 04 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H111	H111	NONE	LIW

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Julie Hertich — Signature: [signature] — Month 12 Day 15 Year 10

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

5632932

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 048 148 175
2. Page 1 of 1
3. Emergency Response Phone: (313) 347-1300
4. Manifest Tracking Number: 010292580 JJK

5. Generator's Name and Mailing Address: THE MERCURY REFINING REMEDI
234 HUDSON AVENUE
ALBANY, NY 12210
Generator's Phone: (518) 472-1988

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: EQ Northeast Inc.
U.S. EPA ID Number: MAD054814136

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: EQ DETROIT, INC.
1923 FREDERICK
DETROIT, MI 48211
Facility's Phone: (313) 347-1300
U.S. EPA ID Number: MID 980 991 566

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON HAZARDOUS NON REGULATED LIQUID WASTE	39	DM	2145	G	029L
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1). K120090DET / NON HAZ MERCURY CONTAMINATED MUD/ WATER (39 DRUMS)

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AUTHORIZED AGENT FOR MERCURY REFINING REMEDIAL DESIGN GROUP - Adam R. Sherman
Signature: [signature]
Month 12 Day 04 Year 12

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: David MacLellan
Signature: [signature]
Month 12 Day 04 Year 12
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. LIW 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [signature]
Signature: [signature]
Month 12 Day 05 Year 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED

5622173

APPENDIX D-2
CSB DEMOLITION DEBRIS
DISPOSAL TICKETS

neca Meadows, Inc.
36 Salcman Rd.
erloo, NY 13165
: (315) 539-5624 Fax: (315) 539-3097

Ticket: 2198799
Date: 06/23/2012
Time: 08:18:10 - 09:14:39

stomer: 15CWR / COUNTY WASTE AND

Carrier: 7246 / COUNTY WASTE & REC
Profile: CD-ALB-15CWR / 15CWR-CD- ALBAN
Cust Ref: 002

Origin: 3 / ALBANY
Truck: FUL7035
mment:

Gross: 66300LBS
Tare: 43040LBS
Net: 23260LBS

Wastes & Services	Quantity
SWCD1 / CONSTRUCT DEBRI	11.6300 Tons

ighmaster: MORGAN 600822

Driver:

eneca Meadows, Inc.
786 Salcman Rd.
aterloo, NY 13165
h: (315) 539-5624 Fax: (315) 539-3097

Ticket: 2198578
Date: 06/22/2012
Time: 14:33:34 - 15:14:25

ustomer: 15CWR / COUNTY WASTE AND

Carrier: 7246 / COUNTY WASTE & REC
Profile: CD-ALB-15CWR / 15CWR-CD- ALBAN
Cust Ref: 001

Origin: 3 / ALBANY
Truck: FUL018
Comment:

Gross: 74960LBS Manual
Tare: 44460LBS
Net: 30500LBS

Wastes & Services	Quantity
SWCD1 / CONSTRUCT DEBRI	15.2500 Tons

eighmaster: MORGAN 600822

Driver:

TCLP TEST RESULTS
SUPPLEMENTAL SAMPLES
COLLECTED MAY 25, 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-20559-1
Client Project/Site: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, New Jersey 07401

Attn: Ms. Cathy Trent

Authorized for release by:
6/1/2012 8:46:33 AM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-20559-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-20559-1

Comments
No additional comments.

Receipt
The samples were received on 5/26/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

Metals
Method(s) 7470A: The following sample was diluted due to the abundance of the target analyte mercury: BC-CSB-PDS-052512-077 (480-20559-2), BC-CSB-PDS-052512-083 (480-20559-8). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples: BC-CSB-PDS-052512-078 (480-20559-3). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample was prepared and analyzed at a 1:5 dilution, which maintained the purple color during digestion.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-076 — Lab Sample ID: 480-20559-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0042		0.00020		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-077 — Lab Sample ID: 480-20559-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.021		0.0010		mg/L	5		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-078 — Lab Sample ID: 480-20559-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.047		0.0010		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-079 — Lab Sample ID: 480-20559-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00042		0.00020		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-080 — Lab Sample ID: 480-20559-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00036		0.00020		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-081 — Lab Sample ID: 480-20559-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00040		0.00020		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-082 — Lab Sample ID: 480-20559-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0022		0.00020		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-083 — Lab Sample ID: 480-20559-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.023		0.0010		mg/L	5		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-084 — Lab Sample ID: 480-20559-9

No Detections

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-076

Lab Sample ID: 480-20559-1

Date Collected: 05/25/12 10:10

Matrix: Solid

Date Received: 05/26/12 09:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0042		0.00020		mg/L		05/31/12 10:30	05/31/12 14:44	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-077

Lab Sample ID: 480-20559-2

Date Collected: 05/25/12 10:28

Matrix: Solid

Date Received: 05/26/12 09:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.0010		mg/L		05/31/12 10:30	05/31/12 14:46	5

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-078

Lab Sample ID: 480-20559-3

Date Collected: 05/25/12 10:34

Matrix: Solid

Date Received: 05/26/12 09:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.0010		mg/L		05/31/12 10:30	05/31/12 14:48	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-079

Lab Sample ID: 480-20559-4

Date Collected: 05/25/12 10:55

Matrix: Solid

Date Received: 05/26/12 09:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00042		0.00020		mg/L		05/31/12 10:30	05/31/12 14:49	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-080
Date Collected: 05/25/12 11:04
Date Received: 05/26/12 09:00

Lab Sample ID: 480-20559-5
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020		mg/L		05/31/12 10:30	05/31/12 14:51	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-081

Lab Sample ID: 480-20559-6

Date Collected: 05/25/12 11:41

Matrix: Solid

Date Received: 05/26/12 09:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00040		0.00020		mg/L		05/31/12 10:30	05/31/12 14:53	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-082
Date Collected: 05/25/12 12:03
Date Received: 05/26/12 09:00

Lab Sample ID: 480-20559-7
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0022		0.00020		mg/L		05/31/12 10:30	05/31/12 14:55	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-083

Lab Sample ID: 480-20559-8

Date Collected: 05/25/12 12:08

Matrix: Solid

Date Received: 05/26/12 09:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.0010		mg/L		05/31/12 10:30	05/31/12 14:58	5

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-084
Date Collected: 05/25/12 12:14
Date Received: 05/26/12 09:00

Lab Sample ID: 480-20559-9
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/31/12 10:30	05/31/12 15:00	1

QC Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-66539/2-A
Matrix: Solid
Analysis Batch: 66614

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/71/12 10:70	05/71/12 14:25	1

Lab Sample ID: LCS 480-66539/3-A
Matrix: Solid
Analysis Batch: 66614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66539

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00336	0.00302		mg/L		90	80 - 120		

Lab Sample ID: LB 480-66393/1-C LB
Matrix: Solid
Analysis Batch: 66614

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 66539

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/71/12 10:70	05/71/12 14:27	1

QC Association Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Metals

Leach Batch: 66393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20559-1	BC-CSB-PDS-052512-076	TCLP	Solid	1311	
480-20559-2	BC-CSB-PDS-052512-077	TCLP	Solid	1311	
480-20559-3	BC-CSB-PDS-052512-078	TCLP	Solid	1311	
480-20559-4	BC-CSB-PDS-052512-079	TCLP	Solid	1311	
480-20559-5	BC-CSB-PDS-052512-080	TCLP	Solid	1311	
480-20559-6	BC-CSB-PDS-052512-081	TCLP	Solid	1311	
480-20559-7	BC-CSB-PDS-052512-082	TCLP	Solid	1311	
480-20559-8	BC-CSB-PDS-052512-083	TCLP	Solid	1311	
480-20559-9	BC-CSB-PDS-052512-084	TCLP	Solid	1311	
LB 480-66393/1-C LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 66539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20559-1	BC-CSB-PDS-052512-076	TCLP	Solid	7470A	66393
480-20559-2	BC-CSB-PDS-052512-077	TCLP	Solid	7470A	66393
480-20559-3	BC-CSB-PDS-052512-078	TCLP	Solid	7470A	66393
480-20559-4	BC-CSB-PDS-052512-079	TCLP	Solid	7470A	66393
480-20559-5	BC-CSB-PDS-052512-080	TCLP	Solid	7470A	66393
480-20559-6	BC-CSB-PDS-052512-081	TCLP	Solid	7470A	66393
480-20559-7	BC-CSB-PDS-052512-082	TCLP	Solid	7470A	66393
480-20559-8	BC-CSB-PDS-052512-083	TCLP	Solid	7470A	66393
480-20559-9	BC-CSB-PDS-052512-084	TCLP	Solid	7470A	66393
LB 480-66393/1-C LB	Method Blank	TCLP	Solid	7470A	66393
LCS 480-66539/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 480-66539/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 66614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20559-1	BC-CSB-PDS-052512-076	TCLP	Solid	7470A	66539
480-20559-2	BC-CSB-PDS-052512-077	TCLP	Solid	7470A	66539
480-20559-3	BC-CSB-PDS-052512-078	TCLP	Solid	7470A	66539
480-20559-4	BC-CSB-PDS-052512-079	TCLP	Solid	7470A	66539
480-20559-5	BC-CSB-PDS-052512-080	TCLP	Solid	7470A	66539
480-20559-6	BC-CSB-PDS-052512-081	TCLP	Solid	7470A	66539
480-20559-7	BC-CSB-PDS-052512-082	TCLP	Solid	7470A	66539
480-20559-8	BC-CSB-PDS-052512-083	TCLP	Solid	7470A	66539
480-20559-9	BC-CSB-PDS-052512-084	TCLP	Solid	7470A	66539
LB 480-66393/1-C LB	Method Blank	TCLP	Solid	7470A	66539
LCS 480-66539/3-A	Lab Control Sample	Total/NA	Solid	7470A	66539
MB 480-66539/2-A	Method Blank	Total/NA	Solid	7470A	66539

General Chemistry

Analysis Batch: 66389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20559-1	BC-CSB-PDS-052512-076	Total/NA	Solid	Moisture	
480-20559-2	BC-CSB-PDS-052512-077	Total/NA	Solid	Moisture	
480-20559-3	BC-CSB-PDS-052512-078	Total/NA	Solid	Moisture	
480-20559-4	BC-CSB-PDS-052512-079	Total/NA	Solid	Moisture	
480-20559-5	BC-CSB-PDS-052512-080	Total/NA	Solid	Moisture	
480-20559-6	BC-CSB-PDS-052512-081	Total/NA	Solid	Moisture	
480-20559-7	BC-CSB-PDS-052512-082	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 66389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20559-8	BC-CSB-PDS-052512-083	Total/NA	Solid	Moisture	
480-20559-9	BC-CSB-PDS-052512-084	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-076 — Lab Sample ID: 480-20559-1

Date Collected: 05/25/12 10:10 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:44	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-077 — Lab Sample ID: 480-20559-2

Date Collected: 05/25/12 10:28 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		5	66614	05/31/12 14:46	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-078 — Lab Sample ID: 480-20559-3

Date Collected: 05/25/12 10:34 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:48	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-079 — Lab Sample ID: 480-20559-4

Date Collected: 05/25/12 10:55 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:49	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-080 — Lab Sample ID: 480-20559-5

Date Collected: 05/25/12 11:04 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:51	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-081

Lab Sample ID: 480-20559-6

Date Collected: 05/25/12 11:41
Matrix: Solid
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:53	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-082

Lab Sample ID: 480-20559-7

Date Collected: 05/25/12 12:03
Matrix: Solid
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:55	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-083

Lab Sample ID: 480-20559-8

Date Collected: 05/25/12 12:08
Matrix: Solid
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		5	66614	05/31/12 14:58	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-084

Lab Sample ID: 480-20559-9

Date Collected: 05/25/12 12:14
Matrix: Solid
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 15:00	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	Federal		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-20559-1	BC-CSB-PDS-052512-076	Solid	05/25/12 10:10	05/26/12 09:00
480-20559-2	BC-CSB-PDS-052512-077	Solid	05/25/12 10:28	05/26/12 09:00
480-20559-3	BC-CSB-PDS-052512-078	Solid	05/25/12 10:34	05/26/12 09:00
480-20559-4	BC-CSB-PDS-052512-079	Solid	05/25/12 10:55	05/26/12 09:00
480-20559-5	BC-CSB-PDS-052512-080	Solid	05/25/12 11:04	05/26/12 09:00
480-20559-6	BC-CSB-PDS-052512-081	Solid	05/25/12 11:41	05/26/12 09:00
480-20559-7	BC-CSB-PDS-052512-082	Solid	05/25/12 12:03	05/26/12 09:00
480-20559-8	BC-CSB-PDS-052512-083	Solid	05/25/12 12:08	05/26/12 09:00
480-20559-9	BC-CSB-PDS-052512-084	Solid	05/25/12 12:14	05/26/12 09:00

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown + Caldwell	Project Manager: C. Trent	Date: 5-25-12	Chain of Custody Number: 228113
Address: 110 Commerce Drive	Telephone Number (Area Code)/Fax Number: 201-574-4700	Lab Number:	Page 1 of 1
City: Allendale; State: NJ; Zip Code: 10740	Site Contact: F. Williams; Lab Contact:		
Project Name and Location (State): MERECO, Colonie, NY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Solid	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCLP Hg	Total Hg	Special Instructions/ Conditions of Receipt
BC-CSB-PDS-052512-076	052512	10:10					↓	↓						X	Hold SAMPLES →	Hold Total Hg till TCLP Hg results are reported
BC-CSB-PDS-052512-077	↓	10:28					↓	↓						X		
BC-CSB-PDS-052512-078	↓	10:34					↓	↓						X		
BC-CSB-PDS-052512-079	↓	10:55					↓	↓						X		
BC-CSB-PDS-052512-080	↓	11:04					↓	↓						X		
BC-CSB-PDS-052512-081	↓	11:41					↓	↓						X		
BC-CSB-PDS-052512-082	↓	12:03					↓	↓						X		
BC-CSB-PDS-052512-083	↓	12:08					↓	↓						X		
BC-CSB-PDS-052512-084	↓	12:14					↓	↓						X		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: C. Trent	5/25/12	1513	1. Received By: [signature]	5/25/12	15:13
2. Relinquished By: [signature]	5/25/12	1700	2. Received By: [signature]	5-26-12	0800
3. Relinquished By:			3. Received By: [signature]		

Comments

3-2 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-20559-1

Login Number: 20559
List Number: 1
Creator: May, Joel M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BROWN AND CALDWELL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix E: May 2012 CSB Pre-Demolition Survey and Environmental Assessment Report (CD-ROM)

Environmental Assessment and Pre-Demolition Survey Mercury Refining Superfund Site Colonie, New York

Prepared for

Mercury Refining Company Remedial Design Group

May 2012

Environmental Assessment and Pre-Demolition Survey
Mercury Refining Superfund Site
Colonie, New York

Prepared for

Mercury Refining Company Remedial Design Group

May 2012

Project Number: 142324.200.001

Brown and Caldwell Associates

110 Commerce Drive

Allendale, New Jersey 07401

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Section 1

Project Overview

In accordance with the Draft Remedial Design Work Plan Addendum, Mercury Refining Superfund Site, Colonie, New York (Brown and Caldwell Associates, March 2012), Brown and Caldwell Associates (BC) performed an environmental assessment and pre-demolition survey of the former Container Storage Building (CSB) located on the Mercury Refining Property. The CSB is an approximate 3,000 square foot (SF) wood framed, metal clad, one-story building constructed in 1989. The CSB was designed for use as a RCRA hazardous waste storage facility for the storage of wastes generated in association with Mercury Refining's mercury recovery and recycling operations. In 1998, MERECO leased the CSB to Mercury Waste Solutions-New York, Inc. (MWS). MWS surrendered its lease and ceased hazardous waste operations in 2003. The building underwent a RCRA closure in 2003 (MWS of New York, 2003). The floor slab and drain sump were tested for RCRA-eight metals (rinsate samples) and PCBs (wipe samples), then sealed with an epoxy coating. There was no sampling of other building materials besides the floor. The mercury concentrations in the floor rinsate samples were as high as 1,000 µg/L. The floor had been sealed 5 years earlier when ownership changed. Until recently, the building was leased to a landscape contractor and used for storage of equipment.

The purpose of the pre-demolition survey is to identify the environmental concerns (if any) that may need to be mitigated prior to the demolition, and to identify building materials (if any) that may be subject to regulation as hazardous waste or other requirements. Based on ownership and operational history, potential environmental concerns include the following categories:

- Asbestos;
- Lead;
- Mercury;
- Polychlorinated Biphenyl (PCBs);
- Oils and Greases;
- Household Hazardous Waste; and
- Miscellaneous Debris.

Section 2

Environmental Assessment and Pre-Demolition Survey

The environmental assessment and pre-demolition survey was conducted on April 11, 2012 utilizing a two-person team from BC and an additional person from Alpine Environmental Services, Inc. (Alpine). Alpine was subcontracted to take the samples of materials identified as potentially asbestos containing material (PACM) and analyze materials identified as potentially containing lead with a hand-held X-ray florescence (XRF) analyzer. The Alpine inspector was Mr. Paul Van Zandt, New York State Department of Labor (NYSDOL) asbestos inspector certificate number 95-02581, expiration date February 2013, and New York Certified Lead Based Paint Professional certificate number NY-113-3, expiration date February 2013. An additional sample event occurred on April 24, 2012 for the purpose of obtaining exterior wipe samples for mercury analysis. Sampling activities are further described below.

Surveying commenced in the office space utilized by the landscape contractor. This office space was constructed inside the CSB along the northern wall, in the northeast corner of the building. The teams reviewed the interior of the office space, proceeded to the exterior of the office space (exterior walls and roof) then completed the surveying of the interior of the CSB in a systematic manner starting from the northeast corner and proceeding in a clockwise manner. A wood frame addition on the exterior of the north side of the CSB was reviewed in a manner similar to the interior office space (interior to exterior).

When an item (e.g., siding, tile, motor, etc.) was determined through inspection to contain a potential environmental concern, it was given a unique identifier and marked with a pink laminated tag containing the identifier. The pink laminated tags labeled with the identifier were placed around or on each area or object of potential concern indicating that it was part of the “BC Survey” conducted in “4/2012”.

The information pertaining to each location of a potential environmental concern was documented on a field data sheet. Field data sheets were then input into the spreadsheet for tracking purposes during abatement or remediation (Table 2-1 Sample Information). The material and a material definition was recorded (e.g., structural and sheetrock) to aid in field recognition during return trips for abatement or demolition. Environmental concerns were categorized as asbestos, lead, PCBs, mercury, oil/grease, or household hazardous chemicals. The locations determined to require sampling (asbestos, lead, PCBs and/or mercury) were identified on the field data sheets and also entered into the spreadsheet.

Information with respect to the location of the environmental concern on or within the building was also recorded. The position was based on the bearings of a compass (North, South, East, and West) and building specific information such as right or left of a doorway, window, or other notable landmark. To further assist with identifying the location of samples, a facility drawing has been annotated (Figure 2-1 Mercury and Polychlorinated Biphenyls Sample Locations). When accessible, areas of concern were also photographed to assist with correlation between the spreadsheet and the field environment.

A total of 26 bulk asbestos samples were collected. The bulk asbestos samples consisted of a few threads to a one-inch square sample depending on the material. EMSL Analytical, Inc., a New York State Department of Health (NYSDOH) certified laboratory (New York Laboratory Identification Number: 11506, expiration April 1, 2013) analyzed the bulk asbestos samples using either Transmission Electron Microscopy (TEM) or Polarized Light Microscopy (PLM) in accordance with PLM New York State (NYS)

198.1 Friable, PLM NYS 198.6 Non-Friable Organically Bound (NOB) and/or TEM NYS 198.4 NOB, which are analytical methods based upon EPA Method 600/1993. A total of 18 lead-based paint sample locations were analyzed by hand-held XRF. The lead-based paint sample locations were selected on the basis of color and the presence of paint that was visibly damaged (e.g., peeling). Alpine utilized the unique identifier created by BC for tracking each sample location and the results.

The results of the Site survey are tabulated in Appendix A. Photographs were taken of each item or area and are presented in Appendix E.

BC selected six (6) locations inside the CSB in which to co-locate the aqueous wipes samples for total mercury, the hexane wipe samples for PCBs and the bulk samples for total and Toxicity Characteristic Leaching Procedure (TCLP) mercury. The sample locations were between the floor and approximately three (3) feet high in an area designated by BC as the "splash zone". The splash zone is consistent with the potential area of the CSB walls that could have been impacted if a storage drum tipped and the contents spilled. This zone was generally covered with either oriented strand board (OSB) or sheetrock. Two (2) locations were identified on the exterior north wall of the CSB from which two (2) additional wipe samples for total mercury were obtained. These locations were identified as having been potentially impacted by airborne mercury from the retort apparatus that was formerly located in the adjacent Phase 1 Building.

Wipe samples consisted of a 10 centimeter by 10 centimeter (100 cm^2) template and either a hexane wipe or an aqueous wipe. Wipes were obtained from impermeable surfaces such as steel columns and sheathing. Bulk samples consisted of enough porous materials (either OSB or sheetrock) to fill a single four (4) ounce glass amber sample jar; however, this volume was not sufficient to perform both total and TCLP mercury as further described in the survey variations (Section 3 below). The samples were submitted to TestAmerica Laboratories, Inc., which is a NYSDOH certified (ELAP No. 10026) analytical laboratory for analysis of mercury and PCBs. Mercury samples were analyzed using Method 7471A. PCB samples were analyzed using Method 8082.

The results of the analysis for mercury and PCBs are summarized in Table 2-2 and Table 2-3, respectively.

Section 3

Environmental Assessment and Pre-Demolition Survey Variations

During the environmental assessment and pre-demolition survey, the number of samples collected varied from the proposed scope of work as follows:

- 26 bulk asbestos (four additional samples collected);
- 1 interior aqueous wipe sample (BC-CSB-PDS-041112-052) for analysis of total mercury was not obtained due to the inability to access the steel panel behind the OSB; and
- 2 additional aqueous wipe samples for analysis of total mercury were collected from the exterior of the building.

The number of wipe samples collected for PCB analysis and the number of bulk samples for total mercury analysis did not vary from the proposed scope of work.

Analysis was not performed for TCLP mercury due to inadequate sample mass. A 100 gram sample is required for TCLP mercury and due to the difficulties encountered when breaking up the OSB and multi-layered sheetrock fire wall, and the relatively low density of these materials, this mass was not attainable during the survey.

Section 4

Sample Results

4.1 Asbestos

A total of 26 bulk asbestos were collected by Alpine. The samples were sent by Alpine to EMSL Analytical, Inc., in New York, New York. EMSL is a NYSDOH certified laboratory. The method used for analysis of PACM samples was either TEM or PLM in accordance with PLM NYS 198.1 Friable, PLM NYS 198.6 NOB and/or TEM NYS 198.4 NOB which are analysis methods based upon EPA Method 600/1993.

Materials with greater then one percent (>1%) asbestos are regulated by Environmental Protection Agency (EPA) and require management as ACM during removal and disposal. The asbestos sampling results indicated that the materials collected and analyzed did not contain asbestos. No asbestos was identified during the environmental assessment and pre-demolition survey.

The Alpine asbestos report is located in Appendix B. The locations and test results are also summarized in Table 2-1.

4.2 Lead

A total of 18 lead-based paint sample locations were analyzed by Alpine using a hand-held XRF analyzer. The analyzer was calibrated before and after the sampling event.

The Occupational Safety & Health Administration (OSHA) considers any detectable amount of lead in paint to be hazardous in accordance with 29 CFR 1926.62. The lead-based paint sampling results were negative for all locations sampled. No lead-based paint was identified during the environmental assessment and pre-demolition survey.

The Alpine lead report is located in Appendix B. The locations and test results are also summarized in Table 2-1.

4.3 Mercury

A total of 7 aqueous wipe samples from non-porous surfaces (5 interior samples and 2 exterior samples) were analyzed by TestAmerica Laboratories, Inc. for total mercury by Method 7471A.

Based on the analytical results for the interior wipe samples, mercury was identified as being present on each sampled surface (samples BC-CSB-PDS-041112-051, BC-CSB-PDS-041112-053 through BC-CSB-PDS-041112-056). Sampled interior surfaces consisted of steel paneling which creates the walls of the building and steel beams (behind the firewall). Based on the analytical results for the exterior wipe samples, no mercury was identified on the exterior of the building (samples BC-CSB-PDS-042412-069 and BC-CSB-PDS-042412-069).

A total of 6 bulk samples of porous materials were analyzed by TestAmerica Laboratories, Inc. for total mercury by Method 7471A. Mercury was detected in every bulk sample at concentrations ranging from 0.84 to 124 mg/kg (ppm). Based on the 20-fold dilution factor for the TCLP method, materials containing 4 mg/kg or more total mercury have a potential to exceed the TCLP limit of 0.2 mg/L, which would cause the material to be classified as a Resource Conservation and Recovery Act (RCRA) Characteristic Hazardous Waste (D009). The actual TCLP results would depend on a variety of factors

including the affinity of mercury for the sample matrix. The bulk samples which exceed the total mercury threshold of 4 mg/kg are BC-CSB-PDS-041112-058 through BC-CSB-PDS-041112-061. Sample BC-CSB-PDS-041112-058 consisted of OSB, sample BC-CSB-PDS-041112-059 consisted of a wood support beam and samples BC-CSB-PDS-041112-060 and -061 consisted of sheetrock.

The laboratory report is located in Appendix C. The results of the analysis for mercury are summarized in Table 2-2.

4.4 Polychlorinated Biphenyls (PCBs)

A total of 6 PCB samples were collected by BC. The samples were sent by BC to TestAmerica Laboratories, Inc. TestAmerica Laboratories, Inc. is a NYSDOH-certified laboratory. The method used for analysis of PCBs was Method 8082.

PCBs were not detected in any of the samples.

The Laboratory Report is located in Appendix C. The results of the analysis for PCBs are summarized in Table 2-3.

Section 5

Recommendations

Certain items identified in the spreadsheet require abatement measures prior to or during demolition. Abatement measures resulting in disposal of waste materials are required to be conducted in accordance with all applicable local, state and federal regulations. As each item identified is abated, the resulting waste should be tracked to document quantities generated and appropriate disposal and/or treatment. Recommendations to address specific environmental concerns follow below.

5.1 Mercury

Twelve (12) items have been specifically identified in the survey as containing mercury. These items consist of the 12 interior sample locations (6 impermeable surfaces and 6 porous materials). In addition, five lights/light fixtures may have been manufactured with small quantities of mercury.

Based upon the total mercury results of the bulk materials sampled, certain porous building materials will need to be managed separately from other construction and demolition (C&D) debris. The OSB (BC-CSB-PDS-041112-058), wooden beams (sample BC-CSB-PDS-041112-059) and sheetrock (BC-CSB-PDS-041112-060 and -061) should be analyzed for TCLP mercury before removal, or be removed from the building, segregated during the demolition and re-sampled and analyzed for TCLP mercury. Wastes exhibiting the RCRA toxicity characteristic for mercury must be disposed of at a facility permitted to accept such materials.

Options for disposal of non-porous materials (steel beams and steel panels) that contain mercury may be limited. Although there are no waste disposal regulations that address surfaces impacted by mercury, recycling of impacted steel may not be appropriate.

Given the age of the building (1989), it is not likely that the light ballasts and exit signs contain mercury bulbs; however, the demolition contractor should collect and properly manage the light ballasts (per below) and light bulbs. A contractor collecting the light bulbs should be aware that the following lamps are known to contain mercury:

- Fluorescent lamps;
- Mercury vapor lamps;
- Metal halide lamps;
- High pressure sodium lamps; and
- Neon lamps.

The lamps and light bulbs should be collected and carefully staged on-site. If the light bulbs are determined to contain mercury, they must be disposed of in accordance with USEPA regulations governing Universal Wastes.

The waste should be tracked and disposal receipts obtained upon destruction. It is important that invoices or manifests that track the wastes include the following information:

- Date of shipment;
- Amount of waste;

- Location from where the wastes are being shipped; and
- Destination of the shipment.

5.2 Polychlorinated Biphenyls (PCBs)

No PCBs were identified on the impermeable surfaces (steel panels and steel beams behind the fire wall). Two (2) items (light fixture ballasts and an electrical distribution panel) have been specifically identified in the survey as potentially containing PCBs. PCB sampling of the electrical equipment was not conducted during the environmental survey. As noted below, further examination and possible sampling of the electrical equipment will be conducted during demolition.

Fluorescent light ballasts manufactured before 1978 generally contain PCBs; however, since the Site was constructed in 1989, the fluorescent light ballasts may not contain PCBs. The label of each light ballast will need to be visually inspected to verify PCB content. Non leaking PCB ballasts are not regulated by the Federal government. In the state of New York, these ballasts shall be handled as a universal waste in a way that prevents release of any waste or any component of the waste to the environment prior to recycling and/or disposal of the universal waste. Leaking PCB ballasts are considered a hazardous waste, and must be thermally destroyed at a licensed Toxic Substances Control Act (TSCA) waste incinerator. The demolition contractor should collect any potentially PCB-containing ballasts and make arrangements for the disposal. The ballasts will require manifest tracking.

Based on the age of the circuit breaker, it will most likely be “dry”, and thus contain no liquids; however if the circuit breaker should be found to contain fluids, these fluids should be removed and staged separately from other demolition wastes. The fluids will require analysis to determine the appropriate disposal methods. Fluids containing between 2 and 49 ppm PCBs are not regulated by TSCA but the re-use of this oil is prohibited and the material should be sent to a disposal facility. Fluids with PCB levels greater then 50 ppm but less then 500 ppm are classified as PCB-contaminated and PCB levels greater then 500 ppm are classified as PCB-containing. The process for abatement of PCB-contaminated and PCB-containing fluids is the same:

- Draining of the dielectric fluids;
- Removal of the drained equipment;
- Transport and disposal of the equipment carcass, usually at a recycling facility;
- Transport and disposal of the PCB-contaminated fluids; and
- Manifest tracking of the PCB-contaminated fluids on USEPA Form 8700-22.

5.3 Oils and Greases

One (1) item potentially containing oils and/or greases was identified during the survey. This item consists of a motor located near an opening in the roof which was most likely used for ventilation purposes. No bulk volumes of oils or greases were identified. Oils and greases should be collected and carefully staged on-site for pickup by a waste management company to be transported to a recycling facility.

5.4 Household Hazardous Waste

Five (5) items have been identified in the survey as “household hazardous wastes”. These items consist of household chemicals/products (Clorox, Windex, etc.), paint and sealers and fire extinguishers. The building tenant is currently vacating the premises and may take these items to its new facility. Leftover household products such as paints, cleaners, oils, batteries, and pesticides may contain corrosive, toxic, ignitable, or reactive ingredients and require special care when disposed of.

The fire extinguishers are generally considered aerosol cans and as such should be returned to a company that can refurbish them, recycle or dispose of them in accordance with local, state and federal regulations. Given the small quantity anticipated (less than a 55 gallon drum in total) any remaining materials should be consolidated appropriately for disposal at a permitted facility.

5.5 Miscellaneous Debris

During the environmental assessment and pre-demolition survey, the current tenant (a landscape contractor) was in the process of removing various equipment related to the business. This equipment consisted of lawnmowers, hand-tools, and other support materials. This miscellaneous debris was not itemized and cataloged. In the event that these materials remain on site at the time of demolition, the miscellaneous debris should be treated in accordance with the above described categories and disposed of in accordance with local, state and federal regulations.

References

Brown and Caldwell Associates, March 2012. Draft Remedial Design Work Plan Addendum, Mercury Refining Superfund Site, Colonie, New York.

Mercury Waste Solutions, 2003. Closure Certification Report for MWS New York, Inc., 26 Railroad Avenue, Colonie, New York, EPA ID NYD048148175.

Tables

TABLE 2-1
SAMPLE INFORMATION
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

ID	Materials	Materials Defined	Env. Concern	Position 1	Position 2	Position 3	Notes	Sampled	Mercury Wipes (ug/wipe)	Mercury Total (mg/kg)	PCBs (mg/kg)	Lead (XRF)	NYS 198.1 Friable PLM Grav. Reduction Total Asbestos (% weight)	NYS 198.6 NOB PLM Grav. Reduction Total Asbestos (% weight)	NYS 198.4 NOB TEM Grav. Reduction Total Asbestos (% weight)
BC-CSB-PDS-041112-001	structual	carpet mastic	asbestos	South		interior office - center of wall - near wood/carpet transisiton		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-002	structual	carpet mastic	asbestos	South		interior office - center of wall - near wood/carpet transisiton		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-003	structual	ceiling tile	asbestos	North		interior office - ceiling above filing cabinets		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-004	structual	ceiling tile	asbestos	North		interior office - ceiling above filing cabinets		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-005	structual	dry wall compound	asbestos	North		interior office		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-006	structual	dry wall	asbestos	North		interior office - exterior closet with chemicals (paints, etc.)		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-007	structual	dry wall	asbestos	North		container storage building wall		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-008	structual	dry wall compound	asbestos	South	west	interior office suite - southwest corner outside face		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-009	structual	fiberglass insluatioon	asbestos	North	east	interior office suite - roof insulation		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-010	structual	fiberglass insluatioon	asbestos	North	east	interior office suite - "rear" wall insulation		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-011	structual	concrete slab	asbestos	South	east	near rear exit door		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-012	structual	concrete slab	asbestos	North	west	ramp to roll-up door		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-013	structual	fiberglass insluatioon	asbestos	North		exterior office		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-014	structual	fiberglass insluatioon paper	asbestos	North		exterior office		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-015	structual	2x4 white ceiling tiles	asbestos	North		exterior office - ceiling tiles		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-016	structual	2x4 white ceiling tiles	asbestos	North		exterior office - ceiling tiles		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-017	structual	linoleum	asbestos	North		exterior office - floor		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-018	structual	linoleum	asbestos	North		exterior office - floor		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-019	structual	dry wall compound	asbestos	North	south	exterior office		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-020	structual	dry wall	asbestos	North	south	exterior office		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-021	structual	dry wall compound	asbestos	North	west	exterior office - near doorway		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-022	structual	dry wall	asbestos	North	west	exterior office - near doorway		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-023	structual	roof vapor barrier (bottom)	asbestos	North		exterior office - center of roof		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-024	structual	shingle (bottom)	asbestos	North		exterior office - center of roof		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-025	structual	roof vapor barrier (top)	asbestos	North		exterior office - center of roof		Yes	-	-	-	-	None Detected	None Detected	None Detected

TABLE 2-1
SAMPLE INFORMATION
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

ID	Materials	Materials Defined	Env. Concern	Position 1	Position 2	Position 3	Notes	Sampled	Mercury Wipes (ug/wipe)	Mercury Total (mg/kg)	PCBs (mg/kg)	Lead (XRF)	NYS 198.1 Friable PLM Grav. Reduction Total Asbestos (% weight)	NYS 198.6 NOB PLM Grav. Reduction Total Asbestos (% weight)	NYS 198.4 NOB TEM Grav. Reduction Total Asbestos (% weight)
BC-CSB-PDS-041112-026	structual	shingle (top)	asbestos	North		exterior office - center of roof		Yes	-	-	-	-	None Detected	None Detected	None Detected
BC-CSB-PDS-041112-027	electrical	light ballast	PCBs			container storage building ceiling - center	6 ballasts	No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-028	electrical	light bulbs	mercury			container storage building ceiling - center		No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-029	electrical	Exit Signs	mercury	North		near roll-up door		No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-030	electrical	Exit Signs	mercury	South		near rear exit door		No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-031	electrical	Emergency flood lights	mercury	North		near roll-up door		No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-032	electrical	Emergency flood lights	mercury	South		near rear exit door		No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-033	structual	Door	lead	North	west	interior office suite		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-034	structual	door trim/casing	lead	North	west	interior office suite		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-035	structual	Wall paint	lead	North	west	interior office suite		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-036	structual	window casing	lead	North	west	interior office suite		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-037	structual	door trim/casing	lead	South	east	rear exit door		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-038	structual	metal door	lead	South	east	rear exit door		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-039	structual	concrete floor - gray covering (paint)	lead			Middle of container storage building		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-040	structual	sheet rock	lead	North		container storage building wall		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-041	structual	wall reinforcement/steel beam	lead	North		container storage building wall		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-042	structual	door trim/casing	lead	North		north wall door (exterior side)		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-043	structual	metal siding	lead	North		north wall (exterior side)		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-044	structual	metal door	lead	North		north wall door (exterior side)		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-045	structual	metal door trim/casing	lead	North		north wall door (exterior side)		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-046	structual	wood siding	lead	North		exterior office		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-047	structual	window casing	lead	North		exterior office - small window		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-048	structual	metal door	lead	North	north	exterior office		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-049	structual	wood door frame	lead	North	north	exterior office		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-050	structual	metal door	lead	South	east	rear exit door		Yes	-	-	-	Negative	-	-	-
BC-CSB-PDS-041112-051	structual	steel panel	mercury	South		center rear wall		Yes	156	-	-	-	-	-	-
BC-CSB-PDS-041112-052	structual	steel panel	mercury	South	west	rear wall		No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-053	structual	steel panel	mercury	West		center west wall - near ventialation duct hole		Yes	97.5	-	-	-	-	-	-
BC-CSB-PDS-041112-054	structual	steel beam	mercury	North		right of roll-up door; support to fire wall sheet rock		Yes	206	-	-	-	-	-	-
BC-CSB-PDS-041112-055	structual	steel beam	mercury	North		near interior office suite		Yes	3.2	-	-	-	-	-	-
BC-CSB-PDS-041112-056	structual	steel panel	mercury	East		left of rear exit door		Yes	16.1	-	-	-	-	-	-

TABLE 2-1
SAMPLE INFORMATION
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

ID	Materials	Materials Defined	Env. Concern	Position 1	Position 2	Position 3	Notes	Sampled	Mercury Wipes (ug/wipe)	Mercury Total (mg/kg)	PCBs (mg/kg)	Lead (XRF)	NYS 198.1 Friable PLM Grav. Reduction Total Asbestos (% weight)	NYS 198.6 NOB PLM Grav. Reduction Total Asbestos (% weight)	NYS 198.4 NOB TEM Grav. Reduction Total Asbestos (% weight)
BC-CSB-PDS-041112-057	structual	OSB	mercury	South		center rear wall		Yes	-	0.84	-	-	-	-	-
BC-CSB-PDS-041112-058	structual	wood beam	mercury	South	west	rear wall		Yes	-	124	-	-	-	-	-
BC-CSB-PDS-041112-059	structual	OSB	mercury	West		center west wall - near ventialation duct hole		Yes	-	60.6	-	-	-	-	-
BC-CSB-PDS-041112-060	structual	sheet rock	mercury	North		right of roll-up door		Yes	-	8.1	-	-	-	-	-
BC-CSB-PDS-041112-061	structual	sheet rock	mercury	North		near interior office suite		Yes	-	4.2	-	-	-	-	-
BC-CSB-PDS-041112-062	structual	sheet rock	mercury	East		left of rear exit door		Yes	-	3.9	-	-	-	-	-
BC-CSB-PDS-041112-063	structual	steel panel	PCBs	South		center rear wall		Yes	-	-	ND	-	-	-	-
BC-CSB-PDS-041112-064	structual	steel panel	PCBs	South	west	rear wall; above "splash zone"		Yes	-	-	ND	-	-	-	-
BC-CSB-PDS-041112-065	structual	steel panel	PCBs	West		center west wall - near ventialation duct hole		Yes	-	-	ND	-	-	-	-
BC-CSB-PDS-041112-066	structual	steel beam	PCBs	North		right of roll-up door		Yes	-	-	ND	-	-	-	-
BC-CSB-PDS-041112-067	structual	steel beam	PCBs	North		near interior office suite		Yes	-	-	ND	-	-	-	-
BC-CSB-PDS-041112-068	structual	steel panel	PCBs	East		left of rear exit door		Yes	-	-	ND	-	-	-	-
BC-CSB-PDS-041112-069	machine	former ventilation fan motor	Oils and Greases	South		center rear wall, near roof	1 unit	No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-070	debris	fire extinguisher	household hazardous waste	West	south	outside interior office suite	1unit	No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-071	debris	fire extinguisher	household hazardous waste	East		near rear exit door	1 unit	No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-072	debris	fire extinguisher	household hazardous waste	East		right of roll-up door	1unit	No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-073	debris	fire extinguisher	household hazardous waste	East		outside interior office suite - near storage closet	1unit	No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-074	electrical	circuit breaker	PCBs	East	north	outside interior office suite	1 unit	No	-	-	-	-	-	-	-
BC-CSB-PDS-041112-075	debris	paints, stains, etc.	household hazardous waste	North		outside interior office suite - inside storage closet		No	-	-	-	-	-	-	-
BC-CSB-PDS-042412-069	structual	steel panel	mercury	North	east	10th panel in from NE corner of building		Yes	ND	-	-	-	-	-	-
BC-CSB-PDS-042412-070	structual	steel panel	mercury	North		10th panel west of wooden addition, north side of building.		Yes	ND	-	-	-	-	-	-

TABLE 2-2
MERCURY SAMPLE RESULTS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Sample ID	Mercury - Method 7471A (ug/Wipe)	Mercury - Method 7471A (mg/Kg)
PDS-041112-51	156	N/A
PDS-041112-52	N/A	N/A
PDS-041112-53	97.5	N/A
PDS-041112-54	206	N/A
PDS-041112-55	3.2	N/A
PDS-041112-56	16.1	N/A
PDS-041112-57	N/A	0.84
PDS-041112-58	N/A	124
PDS-041112-59	N/A	60.6
PDS-041112-60	N/A	8.1
PDS-041112-61	N/A	4.2
PDS-041112-62	N/A	3.9

Notes:
NA - Not Applicable

TABLE 2-3
PCB SAMPLE RESULTS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Sample ID	PCB-1016 Method 8082 (ug/Wipe)		PCB-1221 Method 8082 (ug/Wipe)		PCB-1232 Method 8082 (ug/Wipe)		PCB-1242 Method 8082 (ug/Wipe)		PCB-1248 Method 8082 (ug/Wipe)	
PDS-041112-63	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
PDS-041112-64	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
PDS-041112-65	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
PDS-041112-66	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
PDS-041112-67	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
PDS-041112-68	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

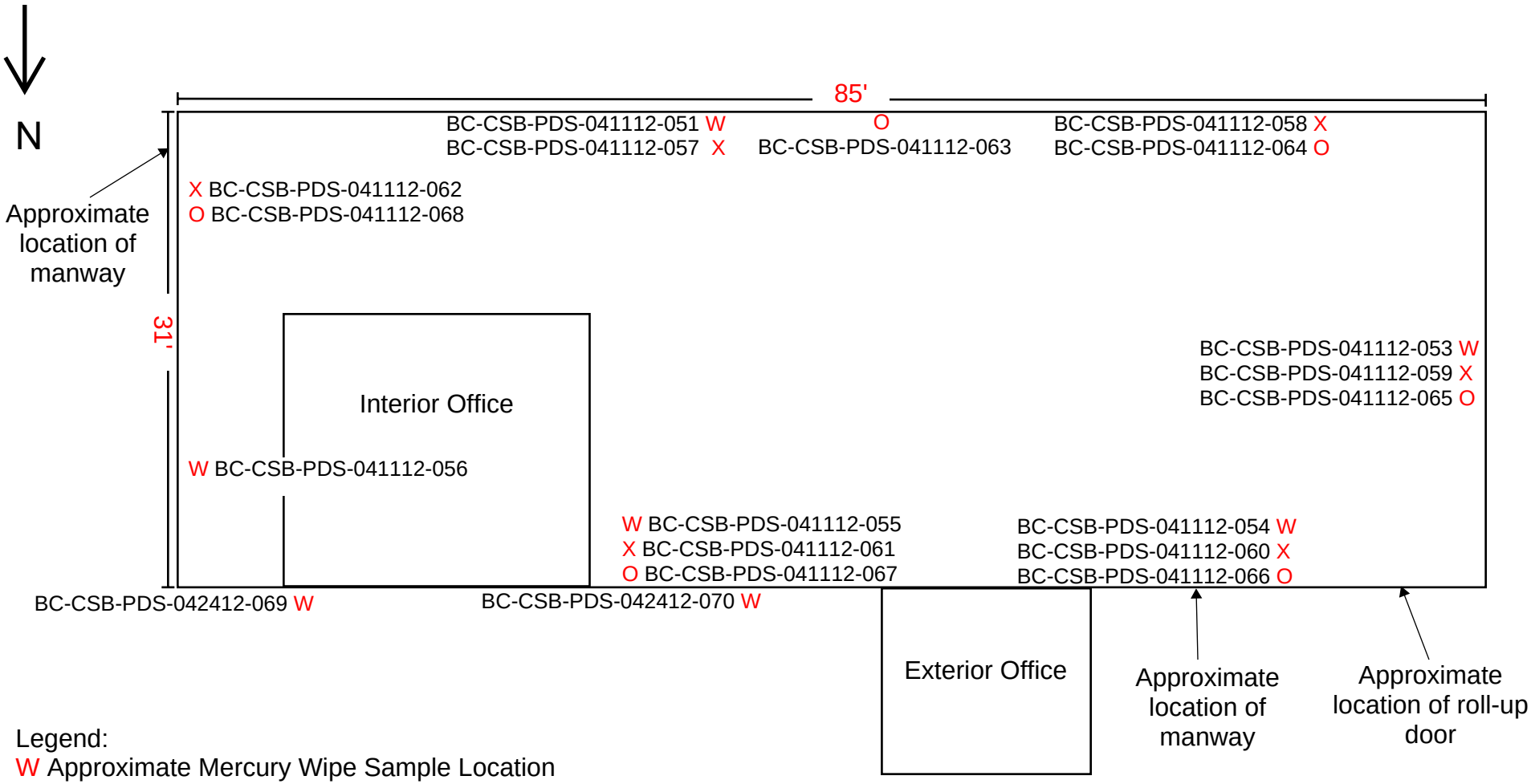
TABLE 2-3
PCB SAMPLE RESULTS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Sample ID	PCB-1254 Method 8082 (ug/Wipe)		PCB-1260 Method 8082 (ug/Wipe)	
PDS-041112-63	1.0	U	1.0	U
PDS-041112-64	1.0	U	1.0	U
PDS-041112-65	1.0	U	1.0	U
PDS-041112-66	1.0	U	1.0	U
PDS-041112-67	1.0	U	1.0	U
PDS-041112-68	1.0	U	1.0	U

Notes:
U - Not Detected

Figures

Path: P:\Mercury_Refining_Superfund_Site\142324_Additional_RDI_Support\CSB_Pre-Demo_Survey\Pre-Demo_Survey_Report\Figures File Name: Figure2-1_Hg_and_PCB_Sample_Locations.pdf



Legend:
W Approximate Mercury Wipe Sample Location
X Approximate Mercury Bulk Sample Location
O Approximate PCB Sample Location

Notes:
1. Drawing not to scale.
2. Features and sample locations based upon site visit conducted on April 11, 2012 and April 24, 2012.
3. Figure 2-1 is for illustrative purposes only and is not intended to accurately reflect all site features.
4. Analysis performed for each sample location is presented in Tables 2-2 and 2-3 for mercury and PCBs, respectively.

Brown AND Caldwell	SCALE: Not to Scale JOB NUMBER: 142324 DATE: May 14, 2012	Mercury and Polychlorinated Biphenyls Sample Locations Environmental Assessment and Pre-Demolition Survey Mercury Refining Superfund Site Colonie, New York	FIGURE 2-1

Appendix A: Pre-Demolition Survey Sample Sheets

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 0934
Building\Location	Container Storage Building (CSB) - interior office suite
ID	BC-CSB-PDS-041112- 001
Materials[1]	Carpet mastic (1) (1)
Materials Defined	↓
Environmental Concern[2]	asbestos (1)
Env'tal Concern Defined	mastic
Position1	North (South) East West
Position2	north south east west
Position3	Right Left
Position4	Under - near wood/carpet transition
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	1+2
Sampled	(Yes) No
Sample ID	all above

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB) - interior office suite
ID	BC-CSB-PDS-041112- 002
Materials[1]	carpet mastic (2) (1)
Materials Defined	↓
Environmental Concern[2]	asbestos (1)
Env'tal Concern Defined	mastic
Position1	North (South) East West
Position2	north south east west
Position3	Right Left
Position4	center - near wood/carpet transition
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	1+2
Sampled	(Yes) No
Sample ID	see above

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 0941
Building\Location	Container Storage Building (CSB) - interior office space
ID	BC-CSB-PDS-041112- 003
Materials[1]	1
Materials Defined	ceiling tile
Environmental Concern[2]	1
Env'tal Concern Defined	ceiling tile
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	ceiling of interior office
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	3
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 0941
Building\Location	Container Storage Building (CSB) - Interior Office Space
ID	BC-CSB-PDS-041112- 004
Materials[1]	(1)
Materials Defined	ceiling tile
Environmental Concern[2]	(1)
Env'tal Concern Defined	ceiling tile
Position1	(North) South East West
Position2	north south east west
Position3	Right Left
Position4	Ceiling of Interior Office
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	3
Sampled	(Yes) No
Sample ID	- SAME -

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 005
Materials[1]	1
Materials Defined	dry wall
Environmental Concern[2]	1
Env'tal Concern Defined	dry wall compound
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 006
Materials[1]	(1)
Materials Defined	dry wall
Environmental Concern[2]	(1)
Env'tal Concern Defined	dry wall
Position1	(North) South East West
Position2	north south east west
Position3	Right Left
Position4	Interior Office - exterior closet w/ chemicals
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 007
Materials[1]	1
Materials Defined	dry wall
Environmental Concern[2]	1
Env'tal Concern Defined	dry wall
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	CSB wall.
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	_____
Photo Ref #	_____
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112-008
Materials[1]	(1)
Materials Defined	dry wall compound
Environmental Concern[2]	(1)
Env'tal Concern Defined	dry wall compound
Position1	North (South) East West
Position2	north south east west
Position3	Right Left
Position4	Interior office - SW corner outside
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 009
Materials[1]	1
Materials Defined	roof insulation
Environmental Concern[2]	1
Env'tal Concern Defined	Fiberglass insulation paper
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	interior office roof
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

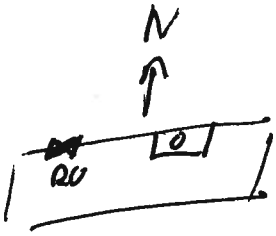
Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1000
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 010
Materials[1]	1
Materials Defined	wall insulation
Environmental Concern[2]	1
Env'tal Concern Defined	fiberglass paper
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	interior office - exterior east wall
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	- SAME -

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012



Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1004
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 011
Materials[1]	1
Materials Defined	Concrete slab
Environmental Concern[2]	1
Env'tal Concern Defined	Concrete
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	near rear exit door
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1007
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 012
Materials[1]	(1)
Materials Defined	Concrete
Environmental Concern[2]	(1)
Env'tal Concern Defined	Concrete floor
Position1	(North) South East West
Position2	north south east (west)
Position3	Right Left
Position4	ramp to roll up door
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	- SAME -

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1019
Building\Location	Container Storage Building (CSB) - Exterior office
ID	BC-CSB-PDS-041112- 013
Materials[1]	1
Materials Defined	Insulation
Environmental Concern[2]	Fiberglass paper 1
Env'tal Concern Defined	↓
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Exterior office
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	_____
Photo Ref #	_____
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1019
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 014
Materials[1]	(1)
Materials Defined	insulation
Environmental Concern[2]	(1)
Env'tal Concern Defined	Fiberglass paper
Position1	(North) South East West
Position2	north south east west
Position3	Right Left
Position4	exterior office
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	_____
Photo Ref #	_____
Sampled	(Yes) No
Sample ID	- SAME -

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1020
Building\Location	Container Storage Building (CSB) - Exterior Office
ID	BC-CSB-PDS-041112- ~~014~~ 015
Materials[1]	(1)
Materials Defined	2x4 ~~tile~~ white ceiling tile
Environmental Concern[2]	(1)
Env'tal Concern Defined	ceiling tile
Position1	(North) South East West
Position2	north south east west
Position3	Right Left
Position4	Exterior bldg - ceiling
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	_____
Photo Ref #	_____
Sampled	(Yes) No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1020
Building\Location	Container Storage Building (CSB) - Exterior Office
ID	BC-CSB-PDS-041112- 016
Materials[1]	(1)
Materials Defined	2x4 white ceiling tile
Environmental Concern[2]	(1)
Env'tal Concern Defined	Ceiling tile
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Exterior Bldg
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1020
Building\Location	Container Storage Building (CSB) - Interior Office
ID	BC-CSB-PDS-041112- 017
Materials[1]	(1)
Materials Defined	linoleum
Environmental Concern[2]	(1)
Env'tal Concern Defined	linoleum tile
Position1	(North) South East West
Position2	north south east west
Position3	Right Left
Position4	Interior Office - Floor
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	_____
Photo Ref #	_____
Sampled	(Yes) No
Sample ID	- SAME -

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1020
Building\Location	Container Storage Building (CSB) - Exterior Office
ID	BC-CSB-PDS-041112- 018
Materials[1]	(1)
Materials Defined	linoleum
Environmental Concern[2]	(1)
Env'tal Concern Defined	linoleum tile
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Exterior Office floor
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	_____
Photo Ref #	_____
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1025
Building\Location	Container Storage Building (CSB) - Exterior Office
ID	BC-CSB-PDS-041112- 019
Materials[1]	1
Materials Defined	dry well compound
Environmental Concern[2]	1
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Exterior Bldg
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1025
Building\Location	Container Storage Building (CSB) - Exterior office
ID	BC-CSB-PDS-041112- 020
Materials[1]	1
Materials Defined	dry wall
Environmental Concern[2]	1
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Exterior Bldg
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1025
Building\Location	Container Storage Building (CSB) - exterior office
ID	BC-CSB-PDS-041112- 021
Materials[1]	1
Materials Defined	drywall compound
Environmental Concern[2]	1
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	exterior office - near doorway
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	- SAME -

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1025
Building\Location	Container Storage Building (CSB) - Exterior office
ID	BC-CSB-PDS-041112- 022
Materials[1]	1
Materials Defined	dry wall
Environmental Concern[2]	1
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Exterior office - near doorway.
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1040
Building\Location	Container Storage Building (CSB) - exterior Bldg.
ID	BC-CSB-PDS-041112- 023
Materials[1]	1
Materials Defined	roof
Environmental Concern[2]	1
Env'tal Concern Defined	bottom vapor barrier
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	center roof
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	- SAME -

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1040
Building\Location	Container Storage Building (CSB) – Exterior Bldg
ID	BC-CSB-PDS-041112- 024
Materials[1]	1
Materials Defined	shingle - Roofing
Environmental Concern[2]	1
Env'tal Concern Defined	roofing shingle
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	roof center
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	– SAME –

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1040
Building\Location	Container Storage Building (CSB) - Exterior Bldg
ID	BC-CSB-PDS-041112- 025
Materials[1]	(1)
Materials Defined	Vapor barrier (top)
Environmental Concern[2]	(1)
Env'tal Concern Defined	
Position1	(North) South East West
Position2	north south east west
Position3	Right Left
Position4	roof center
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	-SAME-

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1040
Building\Location	Container Storage Building (CSB) – interior bldg
ID	BC-CSB-PDS-041112- 026
Materials[1]	(1)
Materials Defined	tarp shingle
Environmental Concern[2]	(1)
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	roof center
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	– SAME –

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1046
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 027
Materials[1]	(4)
Materials Defined	light ballast.
Environmental Concern[2]	(4)
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Ceiling - outer of CSB
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	6 Ballast
Photo Ref #	
Sampled	Yes (No)
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1046
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 028
Materials[1]	4
Materials Defined	light bulbs
Environmental Concern[2]	2
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Ceiling center of CSB
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	12 lights
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
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Pre-Demolition Survey
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 029/030
Materials[1]	4
Materials Defined	Exit Signs
Environmental Concern[2]	2
Env'tal Concern Defined	
Position1	North and South East West
Position2	north south east west
Position3	Right Left
Position4	near roll-up door + near rear door
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	2 signs
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 031/032
Materials[1]	4
Materials Defined	emergency flood lights
Environmental Concern[2]	2
Env'tal Concern Defined	
Position1	North ok / South / East / West
Position2	north / south / east / west
Position3	Right / Left
Position4	near - roll-up door ok near rear door
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	2 lights
Photo Ref #	
Sampled	Yes / No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB) - interior office
ID	BC-CSB-PDS-041112- 033
Materials[1]	(1)
Materials Defined	door
Environmental Concern[2]	3
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
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Pre-Demolition Survey
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB) - interior office
ID	BC-CSB-PDS-041112- 034
Materials[1]	1
Materials Defined	door trim/casing
Environmental Concern[2]	3
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB) – Interior Office
ID	BC-CSB-PDS-041112- 035
Materials[1]	1
Materials Defined	Wall
Environmental Concern[2]	3
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB) -Interior Office
ID	BC-CSB-PDS-041112- 036
Materials[1]	1
Materials Defined	window casing
Environmental Concern[2]	3
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 037
Materials[1]	1
Materials Defined	door jam / closing
Environmental Concern[2]	3
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	rear hallway
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 038
Materials[1]	(1)
Materials Defined	metal door
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	North (South) East West
Position2	north south (east) west
Position3	Right Left
Position4	rear hallway
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 039
Materials[1]	~~floor~~ (1)
Materials Defined	floor
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Floor mid inside
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	039

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 040
Materials[1]	(1)
Materials Defined	Sheet rock
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	(North) South East West
Position2	north south east west
Position3	Right Left
Position4	North wall inside
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	040

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 041
Materials[1]	1
Materials Defined	wall reinforcement
Environmental Concern[2]	3
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	North wall
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	041

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 042
Materials[1]	(1)
Materials Defined	Door frame metal border
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	(North) South East West
Position2	north south east west
Position3	Right Left
Position4	N. wall Door outside
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	_____
Photo Ref #	_____
Sampled	(Yes) No
Sample ID	042

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 043
Materials[1]	(1)
Materials Defined	Metal siding
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	North wall door outside
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	043

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 044
Materials[1]	1
Materials Defined	Metal door
Environmental Concern[2]	3
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	N. wall door outside
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	044

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
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Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 045
Materials[1]	[redacted] (1)
Materials Defined	Metal door frame
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	N. wall door frame outside
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	045

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 046
Materials[1]	(1)
Materials Defined	wood siding
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Adjacent Building wall
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	046

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 047
Materials[1]	(1)
Materials Defined	window frame
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Adjacent Building wall
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	_____
Photo Ref #	_____
Sampled	(Yes) No
Sample ID	047

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 048
Materials[1]	(1)
Materials Defined	Metal door
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Adjacent Bldg door
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	048

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 049
Materials[1]	(1)
Materials Defined	wood door frame
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Adjacent building/office door
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	049

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

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Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 050
Materials[1]	(1)
Materials Defined	Metal door
Environmental Concern[2]	(3)
Env'tal Concern Defined	LBP
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Main Bldg Back door
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	_____
Photo Ref #	_____
Sampled	(Yes) No
Sample ID	050

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1335
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 51
Materials[1]	(1)
Materials Defined	steel panel
Environmental Concern[2]	(2)
Env'tal Concern Defined	
Position1	North (South) East West
Position2	north south east west
Position3	Right Left
Position4	South center wall
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	— SAMPLE —

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ —
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 52
Materials[1]	N/A
Materials Defined	Not obtained
Environmental Concern[2]	
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1325
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 53
Materials[1]	(1)
Materials Defined	Steel panel
Environmental Concern[2]	(2)
Env'tal Concern Defined	
Position1	North South East (West)
Position2	north south east west
Position3	Right Left
Position4	West wall center - next to duct
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1355
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 54
Materials[1]	(1)
Materials Defined	steel beam
Environmental Concern[2]	(2)
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	N. wall to right of roll-up door
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1410
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 55
Materials[1]	(1)
Materials Defined	steel beam
Environmental Concern[2]	(2)
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	N. wall near interior office
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1410
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 56
Materials[1]	(1)
Materials Defined	steel panel
Environmental Concern[2]	(2)
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	E. wall left of manway
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1245			
Building\Location	Container Storage Building (CSB)			
ID	BC-CSB-PDS-041112- 57			
Materials[1]	(1)			
Materials Defined	wood			
Environmental Concern[2]	(2)			
Env'tal Concern Defined				
Position1	North	South	East	West
Position2	north	south	east	west
Position3	Right	Left		
Position4	5. center wall			
Volume				
Length	_____ Units			
Width_Height	_____ Units			
Diameter	_____ Units			
Thickness	_____ Units			
Gallons				
Volume Notes				
Photo Ref #				
Sampled	Yes	No		
Sample ID				

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1620			
Building\Location	Container Storage Building (CSB)			
ID	BC-CSB-PDS-041112- 58			
Materials[1]	(1)			
Materials Defined	wood			
Environmental Concern[2]	(2)			
Env'tal Concern Defined				
Position1	North	(South)	East	West
Position2	north	south	east	west
Position3	(Right)	Left		
Position4				
Volume				
Length	_____ Units			
Width_Height	_____ Units			
Diameter	_____ Units			
Thickness	_____ Units			
Gallons				
Volume Notes				
Photo Ref #				
Sampled	(Yes)	No		
Sample ID				

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1310
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 59
Materials[1]	(1)
Materials Defined	wood
Environmental Concern[2]	(2)
Env'tal Concern Defined	
Position1	North South East (West)
Position2	north south east west
Position3	Right Left
Position4	West wall center -- next to duct
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1257
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 60
Materials[1]	(1)
Materials Defined	sheet rock
Environmental Concern[2]	(2)
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	N. wall to right of roll-up door
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1315
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 61
Materials[1]	(1)
Materials Defined	sheetrock
Environmental Concern[2]	(2)
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	N. wall near interior office
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1320
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 62
Materials[1]	(1)
Materials Defined	sheetrock
Environmental Concern[2]	(2)
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	East wall L of manway
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1345
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 63
Materials[1]	(1)
Materials Defined	steel panel
Environmental Concern[2]	(4)
Env'tal Concern Defined	
Position1	North (South) East West
Position2	north south east west
Position3	Right Left
Position4	S. center wall
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1419
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 64
Materials[1]	~~Steel panel~~ (1)
Materials Defined	Steel panel
Environmental Concern[2]	(4)
Env'tal Concern Defined	
Position1	North (South) East West
Position2	north south east west
Position3	Right Left
Position4	S. wall Right hand side -- just above splash zone
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1327
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 65
Materials[1]	~~steel~~ (1)
Materials Defined	steel panel
Environmental Concern[2]	(4)
Env'tal Concern Defined	
Position1	North South ~~East~~ West
Position2	north south east west
Position3	Right Left
Position4	~~East~~ West wall
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1405
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 66
Materials[1]	(1)
Materials Defined	I-beam
Environmental Concern[2]	(4)
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	N. wall to R of roll-up
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1415
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 67
Materials[1]	(1)
Materials Defined	beams
Environmental Concern[2]	(4)
Env'tal Concern Defined	
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	N. wall outside of interior office
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1415
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 68
Materials[1]	(1)
Materials Defined	steel panel
Environmental Concern[2]	(4)
Env'tal Concern Defined	
Position1	North South (East) West
Position2	north south east west
Position3	Right Left
Position4	E wall near back manway
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	(Yes) No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1612
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 69
Materials[1]	2
Materials Defined	Motor
Environmental Concern[2]	7
Env'tal Concern Defined	grease
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	Center-near roof
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	1 unit
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 70
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112-
Materials[1]	5
Materials Defined	fire extinguisher
Environmental Concern[2]	(7)
Env'tal Concern Defined	Universal
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	outside interior office (bench)
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	1 unit
Photo Ref #	
Sampled	Yes (No)
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 71
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112-
Materials[1]	5
Materials Defined	Fire extinguisher
Environmental Concern[2]	7
Env'tal Concern Defined	Universal waste
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	by rear pathway
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	1 unit
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 72
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112-
Materials[1]	5
Materials Defined	Fire extinguishers
Environmental Concern[2]	7
Env'tal Concern Defined	Universal waste
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	by roll up door
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	1 unit
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 1623
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 073
Materials[1]	5
Materials Defined	fire extinguisher
Environmental Concern[2]	7
Env'tal Concern Defined	universal
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	outside interior office - near storage closet
Volume	
Length	_____ Units
Width_Height	_____ Units
Diameter	_____ Units
Thickness	_____ Units
Gallons	_____
Volume Notes	_____
Photo Ref #	_____
Sampled	Yes No
Sample ID	_____

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ ~~073~~ 1623
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- ~~073~~ 074
Materials[1]	4
Materials Defined	Urant Brackher
Environmental Concern[2]	2/3
Env'tal Concern Defined	
Position1	North South (East) West
Position2	(north) south east west
Position3	Right Left
Position4	outside interior office.
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	
Volume Notes	
Photo Ref #	
Sampled	Yes (No)
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	April 11, 2012 @ 0
Building\Location	Container Storage Building (CSB)
ID	BC-CSB-PDS-041112- 075
Materials[1]	5
Materials Defined	paints/stains/etc.
Environmental Concern[2]	6
Env'tal Concern Defined	universal
Position1	North South East West
Position2	north south east west
Position3	Right Left
Position4	outside interior office-storage closet.
Volume	
Length	Units
Width_Height	Units
Diameter	Units
Thickness	Units
Gallons	50-75
Volume Notes	
Photo Ref #	
Sampled	Yes No
Sample ID	

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	24-Apr-12			
Building\Location	Container Storage Building (CSB)			
ID	BC-CSB-PDS-042412- 69			
Materials[1]	1			
Materials Defined	Steel panel			
Environmental Concern[2]	2			
Env'tal Concern Defined				
Position1	North	South	East	West
Position2	north	south	east	west
Position3	Right	Left		
Position4	10ft panel from NE corner of Building			
Volume				
Length		Units		
Width_Height		Units		
Diameter		Units		
Thickness		Units		
Gallons				
Volume Notes				
Photo Ref #				
Sampled	Yes	No		
Sample ID	-SAME-			

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Mercury Refining Superfund Site
Colonie, New York

Pre-Demolition Survey
April 2012

Performed by: Brown and Caldwell

Date\Time:	24-Apr-12			
Building\Location	Container Storage Building (CSB)			
ID	BC-CSB-PDS-042412- 70			
Materials[1]	1			
Materials Defined	Steel panels			
Environmental Concern[2]	2			
Env'tal Concern Defined				
Position1	North	South	East	West
Position2	north	south	east	west
Position3	Right	Left		
Position4	10th panel west of wooden entryway on N wall			
Volume				
Length	_____ Units			
Width_Height	_____ Units			
Diameter	_____ Units			
Thickness	_____ Units			
Gallons	_____			
Volume Notes				
Photo Ref #				
Sampled	Yes	No		
Sample ID	-SAME-			

[1] (1)Structural; (2)Machine; (3)Switch; (4)Electrical; (5)Debris; (6)Other (describe)
[2] (1)Asbestos; (2)Mercuy; (3)Lead; (4)PCBs; (5)Chrome; (6)Hazardous Chemical; (7)Other

Appendix B: Asbestos and Lead Inspection Report

REPORT OF PRE-DEMOLITION ASBESTOS AND LEAD-BASED PAINT INSPECTION

Location of Inspection:	Merco 26 Railroad Avenue Albany, New York 12205
Client/Building Owner:	Brown & Caldwell Associates 110 Commerce Drive Allendale, New Jersey 07401
Alpine Project #:	12-12593-A
Material or Area Inspected:	Metal storage shed and attached wooden office area
Asbestos Material Found:	No asbestos material found
Lead-Based Paint Found:	No lead-based paint was found
Non-Asbestos Containing Materials Tested:	Drywall & compound, concrete, carpet mastic, 2'x4' ceiling tile, fiberglass insulation paper, linoleum, roof vapor barrier, shingles
Date of Inspection:	April 11, 2012
Inspection Performed By:	Alpine Environmental Services, Inc. 1146 Central Avenue Albany, New York 12205 Phone (518) 453-0146
Inspector(s):	Paul Van Zandt AH 95-02581 NYS Department of Labor Certified Asbestos Inspectors

1.0 Asbestos Inspection:

1.1 Scope and Purpose

This report is intended to document the pre-demolition asbestos inspection of the metal shed and attached wood office area of the Merco Property located at 26 Railroad Avenue, Albany, New York.

"Asbestos containing materials", as defined by the United States Environmental Protection Agency (EPA), is any material containing more than 1% asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, Polarized Light Microscopy. Bulk samples were collected in accordance with USEPA ASHARA protocols for number and types of samples. Materials easily crushed or pulverized by hand pressure are considered friable. Materials with a bituminous or resinous binder that are not easily crushed or

pulverized by hand pressure are considered Non-friable Organically Bound (NOB). Friable and non-friable materials, excluding organically bound materials were analyzed using Polarized Light Microscopy (PLM). Non-Friable Organically Bound samples were analyzed using Transmission Electron Microscopy (TEM). All samples were analyzed by EMSL Analytical (ELAP 11506: Manhattan Lab).

1.2 Description

The building inspected for the survey is a single story metal storage building with an interior office area and an attached wooden office area on the north side. There was no wall covering on most of the interior walls of the storage building. The interior office space had drywall, 2'x4' ceiling tile and carpeting.

1.3 Limitation

The electrical system within the building was energized at the time of Alpine Environmental Services' site visit. All of the wire insulation visible in the storage building and attached wooden office area was vinyl or armor coated and not suspected to contain asbestos. If any inconsistencies are found with respect to electrical wire insulation, Alpine should be contacted and suspect materials should be sampled.

1.4 Results of Inspection

Bulk samples were collected throughout the interior and exterior of the building. Samples were collected as prescribed by US EPA ASHARA protocols for the numbers and types of samples. See the sample results section for all samples collected and the results of analysis.

1.5 Conclusion and Recommendations

Alpine Environmental Services, Inc. has determined through sampling that no asbestos containing materials were found at the metal storage building and attached wooden office area located at 26 Railroad Avenue in Albany, New York.

The following materials were sampled and determined not to contain asbestos:

Non-Asbestos Material	Locations	Sample #
Drywall Compound	Inside garage storage closet, inside garage southwest corner of office	1-01, 1-02
Drywall	Inside garage storage closet, inside garage	2-01, 2-02
Concrete	Inside garage southeast corner, inside garage on ramp	3-01, 3-02
Drywall Compound	Exterior office southwest corner, exterior office northwest corner	4-01, 4-02
Drywall	Exterior office southwest corner, exterior office northwest corner	5-01, 5-02
Carpet Mastic	Interior office	6-01, 6-02
2'x4' Ceiling Tile	Interior Office	7-01, 7-02
Fiberglass Insulation Paper	Top of interior office, rear of interior office, exterior office above ceiling tile	8-01, 8-02, 9-01, 9-02
2'x4' Ceiling Tile	Exterior office north side, exterior office south side	10-01, 10-02
Linoleum	Exterior office	11-01, 11-02

1146 Central Avenue Albany, New York 12205 Phone: (518) 453-0146 Fax: (518) 453-0175

Non-Asbestos Materials Cont'd

Non-Asbestos Material	Locations	Sample #
Roof Vapor Barrier	Exterior office roof	12-01, 12-02
Shingle	Exterior office roof	13-01, 13-02

Any materials not sampled during this inspection should be considered suspect unless sampled and determined to be non-asbestos. All asbestos containing materials must be abated prior to the demolition/renovation of any part of the structure unless performed under a variance issued by the NYS Department of Labor. Disturbance/Abatement of any asbestos containing materials, as well as necessary air monitoring, must be performed by a NYS DOL licensed contractor, in accordance with state and federal regulations (NYS DOL ICR 56 and US EPA 40 CFR).

2.0 Lead-Based Paint Inspection

Alpine Environmental Services, Inc. used an XRF spectrum analyzer model number XLp301A, manufactured by Niton Corp. for testing the painted surfaces. The XRF uses a Cadmium 109 source with a 40mCi source strength. The machine was sourced on 1/15/09.

2.1 Description

There were no windows in the metal storage building with the exception of interior windows in the interior office area. There were windows in the exterior attached office area.

2.2 Conclusion

The Occupational Safety and Health Administration (OSHA) consider paint with any concentration of lead to be a potential hazard. Alpine Environmental Services, Inc. has concluded through X-ray florescence (XRF) analysis that lead was not found in any of the areas tested

If Alpine Environmental Services can be of further assistance on this matter, please contact our office at (518) 453-0146.

Sincerely,
Alpine Environmental Services, Inc.

Paul Van Zandt
NYS Dept. of Labor Certified Asbestos Inspector Certificate # AH95-02581

Enclosures: Results, NYSDOL Handling License(s), NYSDOL Handling Certificate(s), NYSDOH ELAP License(s)

1146 Central Avenue Albany, New York 12205 Phone: (518) 453-0146 Fax: (518) 453-0175

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
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http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031211108
CustomerID:	ALPI50
CustomerPO:	
ProjectID:	

Attn: **Alpine Environmental Services**
1146 Central Avenue

Albany, NY 12205

Phone:	(518) 453-0146
Fax:	(518) 453-0175
Collected:	4/11/2012
Received:	04/12/2012 9:33 AM
Analysis Date:	4/16/2012

Project: **11-12593-A/ MERCO/ RAILROAD AVE./ ALBANY , NY**

Test Report:Asbestos Analysis of Bulk Material

Sample Description	Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos	Comments
1-01	**PLM NYS 198.1 Friable**	4/16/2012	Gray/White	7.00% Cellulose	93%	**None Detected**	
031211108-0001	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
INSIDE GARAGE/ STORAGE CLOSET ADJ. OFFICE - DRYWALL COMPOUND	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
1-02	**PLM NYS 198.1 Friable**	4/17/2012	White		100%	**None Detected**	
031211108-0002	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
INSIDE GARAGE/ SW CORNER OF OFFICE - DRYWALL COMPOUND	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
2-01	**PLM NYS 198.1 Friable**	4/16/2012	Gray		100%	**None Detected**	
031211108-0003	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
INIDE GARAGE/ STORAGE CLOSET ADJ. OFFICE - DRYWALL	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
2-02	**PLM NYS 198.1 Friable**	4/17/2012	Tan		100%	**None Detected**	
031211108-0004	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
INSIDE GARAGE/ NORTH WALL - DRYWALL	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
3-01	**PLM NYS 198.1 Friable**	4/16/2012	Gray		100%	**None Detected**	
031211108-0005	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
INSIDE GARAGE/ SOUTHEAST CORNER - CONCRETE	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
3-02	**PLM NYS 198.1 Friable**	4/16/2012	Gray		100%	**None Detected**	
031211108-0006	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
INSIDE GARAGE/ RAMP - CONCRETE	**TEM NYS 198.4 NOB**				N/A		Not Analyzed

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Analysis Date:	4/16/2012

Project: **11-12593-A/ MERCO/ RAILROAD AVE./ ALBANY , NY**

Test Report:Asbestos Analysis of Bulk Material

Sample Description	Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos	Comments
4-01	**PLM NYS 198.1 Friable**	4/16/2012	White		100%	**None Detected**	
031211108-0007	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
EXTERIOR OFFICE/ SOUTHWEST CORNER - DRYWALL COMPOUND	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
4-02	**PLM NYS 198.1 Friable**	4/17/2012	White		100%	**None Detected**	
031211108-0008	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
EXTERIOR OFFICE/ NORTHWEST CORNER - DRYWALL COMPOUND	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
5-01	**PLM NYS 198.1 Friable**	4/16/2012	Gray/Tan	6.00% Cellulose	94%	**None Detected**	
031211108-0009	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
EXTERIOR OFFICE/ SOUTHWEST CORNER - DRYWALL	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
5-02	**PLM NYS 198.1 Friable**	4/17/2012	Gray/White		100%	**None Detected**	
031211108-0010	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
EXTERIOR OFFICE/ NORTHWEST CORNER - DRYWALL	**TEM NYS 198.4 NOB**				N/A		Not Analyzed

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Analysis Date:	4/16/2012

Project: **11-12593-A/ MERCO/ RAILROAD AVE./ ALBANY , NY**

Test Report:Asbestos Analysis of Bulk Material

Sample Description	Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos	Comments

Analyst(s)

Keri-Dean Scarlett

Steve Jusczuk

James Hall, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable

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Initial Report From 04/17/2012 01:41:35

THIS IS THE LAST PAGE OF THE REPORT.

031211108

Alpine Environmental Services, Inc.
1146 Central Avenue
Albany, NY 12205

Phone: (518) 453-0146
Fax: (518) 453-0175

CHAIN OF CUSTODY

Client: Alpine Environmental Services, Inc.
1146 Central Ave.
Albany, NY 12205
Contact: Paul Van Zandt
Phone/Email: 518 453-0146 paulv@alpineenv.com
Turnaround Time: ***5-Day TAT***

Project: Merco, Railroad Ave, Albany, NY
Project Number: 11-12593-A
Sampled By: P. Van Zandt
Date / Time Collected: 4/11/12 9:00
Delivery: Fed Ex

031211108

Log No.	Sample No.	Sample Location	Sample Material	Analysis Performed	Notes
	1-01	Inside Garage Storage Closet Adj. Office	Drywall Compound	**NYS PLM**	BC# 005
	1-02	Inside Garage SW Corner of Office	Drywall Compound		BC# 008
	2-01	Inside Garage Storage Closet Adj. Office	Drywall		BC# 006
	2-02	Inside Garage North Wall	Drywall		BC# 007
	3-01	Inside Garage Southeast Corner	Concrete		BC# 011
	3-02	Inside Garage Ramp	Concrete		BC# 012
	4-01	Exterior Office Southwest Corner	Drywall Compound		BC# 019
	4-02	Exterior Office Northwest Corner	Drywall Compound		BC# 021
	5-01	Exterior Office Southwest Corner	Drywall		BC# 020
	5-02	Exterior Office Northwest Corner	Drywall		BC# 022

EMSL MANHATTAN LAB
RECEIVED
2012 APR 12 AM 9:33

Disposition of Samples: Accept____ Reject____ Explain____
Comments:

Relinquished By:	Received By:	Date:	Time:
Paul Van Zandt	Nicole Donegal	4/12/12	9:33am

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ProjectID:	

Attn: **Alpine Environmental Services**
1146 Central Avenue

Albany, NY 12205

Phone:	(518) 453-0146
Fax:	(518) 453-0175
Collected:	4/11/2012
Received:	04/12/2012 9:38 AM
Analysis Date:	4/15/2012

Project: **11-12593-A/ MERCO/ RAILROAD AVE. / ALBANY , NY**

Test Report:Asbestos Analysis of Bulk Material

Sample Description	Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos	Comments
6-01	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0001	**PLM NYS 198.6 NOB**	4/13/2012	Yellow		N/A	**Inconclusive: None Detected**	
INTERIOR OFFICE - CARPET MASTIC	**TEM NYS 198.4 NOB**	4/15/2012	Yellow		N/A	**None Detected**	
6-02	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0002	**PLM NYS 198.6 NOB**	4/13/2012	Yellow		N/A	**Inconclusive: None Detected**	
INTERIOR OFFICE - CARPET MASTIC	**TEM NYS 198.4 NOB**	4/15/2012	Yellow		N/A	**None Detected**	
7-01	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0003	**PLM NYS 198.6 NOB**	4/13/2012	White	9.2% Min. Wool	N/A	**Inconclusive: None Detected**	
INTERIOR OFFICE - 2'X7' CEILING TILE	**TEM NYS 198.4 NOB**	4/15/2012	White		N/A	**None Detected**	
7-02	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0004	**PLM NYS 198.6 NOB**	4/13/2012	White	9.1% Min. Wool	N/A	**Inconclusive: None Detected**	
INTERIOR OFFICE - 2'X7' CEILING TILE	**TEM NYS 198.4 NOB**	4/15/2012	White		N/A	**None Detected**	
8-01	**PLM NYS 198.1 Friable**	4/16/2012	Brown/Red/Bl	15.00% Glass 55.00% Cellulose	30%	**None Detected**	
031211110-0005	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
TOP OF INTERIOR OFFICE - FIBERGLASS INSULATON PAPER	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
8-02	**PLM NYS 198.1 Friable**	4/17/2012	Brown/Black	65.00% Cellulose	35%	**None Detected**	
031211110-0006	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
REAR OF INTERIOR OFFICE - FIBERGLASS INSULATON PAPER	**TEM NYS 198.4 NOB**				N/A		Not Analyzed

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ProjectID:	

Attn: **Alpine Environmental Services**
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Phone:	(518) 453-0146
Fax:	(518) 453-0175
Collected:	4/11/2012
Received:	04/12/2012 9:38 AM
Analysis Date:	4/15/2012

Project: **11-12593-A/ MERCO/ RAILROAD AVE. / ALBANY , NY**

Test Report:Asbestos Analysis of Bulk Material

Sample Description	Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos	Comments
9-01	**PLM NYS 198.1 Friable**	4/16/2012	Brown/Black	5.00% Glass 45.00% Cellulose	50%	**None Detected**	
031211110-0007	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
EXTERIOR OFFICE ABOVE CEILING TILE - FIBERGLASS INSULATION PAPER	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
9-02	**PLM NYS 198.1 Friable**	4/17/2012	Brown/Black/	20.00% Cellulose 55.00% Glass	25%	**None Detected**	
031211110-0008	**PLM NYS 198.6 NOB**				N/A		Not Analyzed
EXTERIOR OFFICE ABOVE CEILING TILE - FIBERGLASS INSULATION PAPER	**TEM NYS 198.4 NOB**				N/A		Not Analyzed
10-01	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0009	**PLM NYS 198.6 NOB**	4/13/2012	White	28.2% Min. Wool	N/A	**Inconclusive: None Detected**	
EXTERIOR OFFICE NORTH SIDE - 2'X4' CEILING TILE	**TEM NYS 198.4 NOB**	4/15/2012	White		N/A	**None Detected**	
10-02	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0010	**PLM NYS 198.6 NOB**	4/13/2012	White	5.8% Min. Wool	N/A	**Inconclusive: None Detected**	
EXTERIOR OFFICE SOUTH SIDE - 2'X4' CEILING TILE	**TEM NYS 198.4 NOB**	4/15/2012	White		N/A	**None Detected**	
11-01	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0011	**PLM NYS 198.6 NOB**	4/13/2012	Beige	<1% Glass	N/A	**Inconclusive: None Detected**	
EXTERIOR OFFICE - LINOLEUM	**TEM NYS 198.4 NOB**	4/15/2012	Beige		N/A	**None Detected**	
11-02	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0012	**PLM NYS 198.6 NOB**	4/13/2012	Beige	<1% Glass	N/A	**Inconclusive: None Detected**	
EXTERIOR OFFICE - LINOLEUM	**TEM NYS 198.4 NOB**	4/15/2012	Beige		N/A	**None Detected**	

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EMSL Order:	031211110
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Attn: **Alpine Environmental Services**
1146 Central Avenue

Albany, NY 12205

Phone:	(518) 453-0146
Fax:	(518) 453-0175
Collected:	4/11/2012
Received:	04/12/2012 9:38 AM
Analysis Date:	4/15/2012

Project: **11-12593-A/ MERCO/ RAILROAD AVE. / ALBANY , NY**

Test Report:Asbestos Analysis of Bulk Material

Sample Description	Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos	Comments
12-01	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0013	**PLM NYS 198.6 NOB**	4/13/2012	Brown		N/A	**Inconclusive: None Detected**	
EXRERIOR OFFICE ROOF - BOTTOM VAPOR BARRIER	**TEM NYS 198.4 NOB**	4/15/2012	Brown		N/A	**None Detected**	
12-02	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0014	**PLM NYS 198.6 NOB**	4/13/2012	Brown		N/A	**Inconclusive: None Detected**	
EXRERIOR OFFICE ROOF - TOP VAPOR BARRIER	**TEM NYS 198.4 NOB**	4/15/2012	Brown		N/A	**None Detected**	
13-01	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0015	**PLM NYS 198.6 NOB**	4/13/2012	Black		N/A	**Inconclusive: None Detected**	
EXRERIOR OFFICE ROOF - BOTTOM SHINGLE	**TEM NYS 198.4 NOB**	4/15/2012	Black		N/A	**<1% Chrysotile** **<1% Total**	
13-02	**PLM NYS 198.1 Friable**						Not Analyzed
031211110-0016	**PLM NYS 198.6 NOB**	4/13/2012	Black	10.2% Glass	N/A	**Inconclusive: None Detected**	
EXRERIOR OFFICE ROOF - TOP SHINGLE	**TEM NYS 198.4 NOB**	4/15/2012	Black		N/A	**None Detected**	

Initial Report From 04/17/2012 01:42:06

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Analysis Date:	4/15/2012

Project: **11-12593-A/ MERCO/ RAILROAD AVE. / ALBANY , NY**

Test Report:Asbestos Analysis of Bulk Material

Sample Description	Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos	Comments

Analyst(s)

Jon Williams *Sean Scales*
Keri-Dean Scarlett
Steve Jusczuk

James Hall, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable

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Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial Report From 04/17/2012 01:42:06

031211110

Alpine Environmental Services, Inc.
1146 Central Avenue
Albany, NY 12205

Phone: (518) 453-0146
Fax: (518) 453-0175

CHAIN OF CUSTODY

Client: Alpine Environmental Services, Inc.
1146 Central Ave.
Albany, NY 12205
Contact: Paul Van Zandt
Phone/Email: 518 453-0146 paulv@alpineenv.com
Turnaround Time: ***5-Day TAT***

Project: Merco, Railroad Ave, Albany, NY
Project Number: 11-12593-A
Sampled By: P. Van Zandt
Date / Time Collected: 4/11/12 9:00
Delivery: Fed Ex

03121110

Log No.	Sample No.	Sample Location	Sample Material	Analysis Performed	Notes
	6-01	Interior Office	Carpet Mastic	**NYS ELAP 198.4**	BC# 001
	6-02	Interior Office	Carpet Mastic		BC# 002
	7-01	Interior Office	2'x4' Ceiling Tile		BC# 003
	7-02	Interior Office	2'x4' Ceiling Tile		BC# 004
	8-01	Top of Interior Office	Fiberglass Insulation Paper		BC# 009
	8-02	Rear of Interior Office	Fiberglass Insulation Paper		BC# 010
	9-01	Exterior Office Above Ceiling Tile	Fiberglass Insulation Paper		BC# 013
	9-02	Exterior Office Above Ceiling Tile	Fiberglass Insulation Paper		BC# 014
	10-01	Exterior Office North Side	2'x4' Ceiling Tile		BC# 015
	10-02	Exterior Office South Side	2'x4' Ceiling Tile		BC# 016
	11-01	Exterior Office	Linoleum		BC# 017
	11-02	Exterior Office	Linoleum		BC# 018

Disposition of Samples: Accept_____ Reject_____ Explain_____
Comments:

EMSL MANHATTAN LAB
RECEIVED
2012 APR 12 AM 9:38

Relinquished By:	Received By:	Date:	Time:
[illegible]	[illegible]	4/12/12	9:38am

031211110

Alpine Environmental Services, Inc.
1146 Central Avenue
Albany, NY 12205

031 211110

Phone: (518) 453-0146
Fax: (518) 453-0175

CHAIN OF CUSTODY

Client: Alpine Environmental Services, Inc.
1146 Central Ave.
Albany, NY 12205
Contact: Paul Van Zandt
Phone/Email: 518 453-0146 paulv@alpineenv.com
Turnaround Time: ***5-Day TAT***

Project: Merco, Railroad Ave, Albany, NY
Project Number: 11-12593-A
Sampled By: P. Van Zandt
Date / Time Collected: 4/11/12 9:00
Delivery: Fed Ex

Log No.	Sample No.	Sample Location	Sample Material	Analysis Performed	Notes
	12-01	Exterior Office Roof	Bottom Vapor Barrier	**NYS ELAP 198.4**	BC# 023
	12-02	Exterior Office Roof	Top Vapor Barrier		BC# 025
	13-01	Exterior Office Roof	Bottom Shingle		BC# 024
	13-02	Exterior Office Roof	Top Shingle		BC# 026

EMSL MANHATTAN LAB
RECEIVED
2012 APR 12 AM 9:38

Disposition of Samples: Accept_____ Reject_____ Explain_____
Comments:

Relinquished By:	Received By:	Date:	Time:
PVZ	Nicole Dawgl	4/12/12	9:38a

Client: Brown and Caldwell | MERCO | Project# 12-12593-A

Prepared by: Alpine Environmental Services, Inc. | Railroad Avenue, Albany, NY

No	BC#	Time	Flr	Room	Rm#	Side	Component	Feature	Condition	Substrate	Results	PbC	PbC Error	Units	Depth	Duration
1		4/11/2012 10:05		Shutter Calibrate								1.46	0	cps		285.1
2		4/11/2012 10:08		Calibrate					Intact	Metal	Positive	1	0.1	mg / cm ^2	1.16	20.43
3		4/11/2012 10:10		Calibrate					Intact	Metal	Positive	1	0.1	mg / cm ^2	2.64	20.27
4	33	4/11/2012 10:11	1	Interior Ofc		D	Exterior Clst	Door	Intact	Metal	Negative	< LOD	0.03	mg / cm ^2	1	1.98
5	34	4/11/2012 10:12	1	Interior Ofc		D	Exterior Clst	Trim	Intact	Wood	Negative	< LOD	0.03	mg / cm ^2	1	1.99
6	35	4/11/2012 10:13	1	Interior Ofc		D	Wall		Intact	Drywall	Negative	< LOD	0.03	mg / cm ^2	1	2.75
7	36	4/11/2012 10:14	1	Interior Ofc		D	Window	Casing	Intact	Wood	Negative	< LOD	0.03	mg / cm ^2	1	1.97
8	37	4/11/2012 10:16	1	Garage		B	Door	Casing	Intact	Metal	Negative	< LOD	0.03	mg / cm ^2	1	1.99
9	38	4/11/2012 10:16	1	Garage		B	Door		Intact	Metal	Negative	< LOD	0.03	mg / cm ^2	1	1.98
10	39	4/11/2012 10:17	1	Garage			Floor		Peeling	Concrete	Negative	< LOD	0.1	mg / cm ^2	3.77	2.86
11	40	4/11/2012 10:18	1	Garage		A	Wall		Intact	Drywall	Negative	< LOD	0.03	mg / cm ^2	1.36	3.07
12	41	4/11/2012 10:19	1	Garage		A	Column		Peeling	Metal	Negative	< LOD	0.03	mg / cm ^2	1	1.98
13	42	4/11/2012 10:21	1	Garage		A	Door	Jamb	Peeling	Metal	Negative	< LOD	0.03	mg / cm ^2	1	1.98
14	43	4/11/2012 10:21	1	Garage		A	Wall	Siding	Intact	Metal	Negative	< LOD	0.03	mg / cm ^2	1	1.87
15	44	4/11/2012 10:22	1	Garage		A	Door		Peeling	Metal	Negative	< LOD	0.03	mg / cm ^2	1.34	1.98
16	45	4/11/2012 10:22	1	Garage		A	Door	Jamb	Peeling	Metal	Negative	< LOD	0.09	mg / cm ^2	5.11	2.2
17	46	4/11/2012 10:23	1	Exterior Ofc		D	Siding		Peeling	Wood	Negative	< LOD	0.03	mg / cm ^2	1	1.96
18	47	4/11/2012 10:24	1	Exterior Ofc		D	Window	Casing	Peeling	Wood	Negative	< LOD	0.03	mg / cm ^2	1	1.97
19	48	4/11/2012 10:24	1	Exterior Ofc		A	Door		Intact	Metal	Negative	< LOD	0.05	mg / cm ^2	2.06	1.86
20	49	4/11/2012 10:25	1	Exterior Ofc		A	Door	Casing	Peeling	Wood	Negative	< LOD	0.03	mg / cm ^2	1	1.97
21	50	4/11/2012 10:27	1	Exterior Ofc		B	Door		Peeling	Metal	Negative	< LOD	0.03	mg / cm ^2	1	1.86
22		4/11/2012 10:34		Calibrate					Intact	Metal	Negative	0.9	0.1	mg / cm ^2	1.03	5.69
23		4/11/2012 10:36		Calibrate					Intact	Metal	Positive	1	0.1	mg / cm ^2	2.74	20.4

Action Level = 1.0mg/cm^2 BC# = Brown Caldwell Sample # LOD = Limit of Detection

NEW YORK STATE - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
LICENSE AND CERTIFICATE UNIT
STATE CAMPUS BUILDING 12
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

Alpine Environmental Services, Inc.

1146 Central Avenue

Albany, NY 12205

FILE NUMBER: 00-0320
LICENSE NUMBER: 29095
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 07/07/2011
EXPIRATION DATE: 07/31/2012

Duly Authorized Representative – Craig Petreikis

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Maureen A. Cox

Maureen A. Cox, Director
FOR THE COMMISSIONER OF LABOR

SH 432 (4-07)

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2013
Issued April 1, 2012

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JAMES HALL
EMSL ANALYTICAL, INC
307 WEST 38TH STREET
NEW YORK, NY 10018

NY Lab Id No: 11506

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Metals I	
Lead, Total	EPA 7000B
Miscellaneous	
Asbestos In Friable Material	EPA 600/M4/82/020
	Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos In Non-Friable Material-TEM	Item 198.4 of Manual
Lead In Dust Wipes	EPA 7000B
Lead In Paint	EPA 7000B
Sample Preparation Methods	
	APP. 14.2, HUD JUNE 1995
	EPA 3050B

Serial No.: 46381

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

STATE OF NEW YORK - DEPARTMENT OF LABOR

ASBESTOS CERTIFICATE

PAUL W VANZANDT
CLASS(EXPIRES)
C ATEC(02/13) D INSP(02/13)
H PM (02/13)

CERT# 95-02581
DMV# 893739101

MUST BE CARRIED ON ASBESTOS PROJECTS

REPLACEMENT CERTIFICATE

United States Environmental Protection Agency

This is to certify that

Alpine Environmental Services, Inc.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires February 7, 2013

NY-113-3

Certification #

December 14, 2009

Issued On

John Gorman, Acting Chief

Pesticides & Toxic Substances Branch

Appendix C: Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-18643-1
Client Project/Site: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, New Jersey 07401

Attn: Ms. Cathy Trent

Authorized for release by:
4/20/2012 9:07:45 AM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-18643-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-18643-1

Receipt
The samples were received on 4/12/2012 9:00 AM; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.50 C.

Not enough volume was received for TCLP testing. Client was contacted by PM. TCLP was therefore not assigned after consulting with the PM.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method 7471A: The following samples were diluted due to the abundance of target analyte total mercury: PDS-041112-51 (480-18643-1), PDS-041112-53 (480-18643-2), PDS-041112-54 (480-18643-3), PDS-041112-56 (480-18643-5), PDS-041112-57 (480-18643-6), PDS-041112-59 (480-18643-8), PDS-041112-60 (480-18643-9), PDS-041112-61 (480-18643-10), PDS-041112-62 (480-18643-11). Elevated reporting limits (RLs) are provided.

Method 7471A: The following sample was diluted due to the abundance of target analyte total mercury: PDS-041112-58 (480-18643-7). Elevated reporting limits (RLs) are provided.

Method 7471A: The Matrix Spike/ Matrix Spike Duplicate (MS/MSD) recoveries for total mercury in batch 59966 were outside control limits. The associated Laboratory Control Sample (LCS) recovery met acceptance criteria, therefore no corrective action was necessary.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-51 — Lab Sample ID: 480-18643-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hg	156		40.0		ug/Wipe	100		7471A	Total/NA

Client Sample ID: PDS-041112-53 — Lab Sample ID: 480-18643-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hg	97.5		20.0		ug/Wipe	50		7471A	Total/NA

Client Sample ID: PDS-041112-54 — Lab Sample ID: 480-18643-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hg	206		40.0		ug/Wipe	100		7471A	Total/NA

Client Sample ID: PDS-041112-55 — Lab Sample ID: 480-18643-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hg	3.2		0.40		ug/Wipe	1		7471A	Total/NA

Client Sample ID: PDS-041112-56 — Lab Sample ID: 480-18643-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hg	16.1		4.0		ug/Wipe	10		7471A	Total/NA

Client Sample ID: PDS-041112-57 — Lab Sample ID: 480-18643-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury, Total	0.84		0.10		mg/Kg	5	☼	7471A	Total/NA

Client Sample ID: PDS-041112-58 — Lab Sample ID: 480-18643-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury, Total	124		10.0		mg/Kg	500	☼	7471A	Total/NA

Client Sample ID: PDS-041112-59 — Lab Sample ID: 480-18643-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury, Total	60.6		2.1		mg/Kg	100	☼	7471A	Total/NA

Client Sample ID: PDS-041112-60 — Lab Sample ID: 480-18643-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury, Total	8.1		1.0		mg/Kg	50	☼	7471A	Total/NA

Client Sample ID: PDS-041112-61 — Lab Sample ID: 480-18643-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury, Total	4.2		0.39		mg/Kg	20	☼	7471A	Total/NA

Client Sample ID: PDS-041112-62 — Lab Sample ID: 480-18643-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury, Total	3.9		0.43		mg/Kg	20	☼	7471A	Total/NA

Detection Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-63 **Lab Sample ID: 480-18643-12**

No Detections

Client Sample ID: PDS-041112-64 **Lab Sample ID: 480-18643-13**

No Detections

Client Sample ID: PDS-041112-65 **Lab Sample ID: 480-18643-14**

No Detections

Client Sample ID: PDS-041112-66 **Lab Sample ID: 480-18643-15**

No Detections

Client Sample ID: PDS-041112-67 **Lab Sample ID: 480-18643-16**

No Detections

Client Sample ID: PDS-041112-68 **Lab Sample ID: 480-18643-17**

No Detections

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-51

Lab Sample ID: 480-18643-1

Date Collected: 04/11/12 13:35

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	156		40.0		ug/Wipe		04/17/12 09:30	04/17/12 14:11	100

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-53

Lab Sample ID: 480-18643-2

Date Collected: 04/11/12 13:25

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	97.5		20.0		ug/Wipe		04/17/12 09:30	04/17/12 14:12	50

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-54

Lab Sample ID: 480-18643-3

Date Collected: 04/11/12 13:55

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	206		40.0		ug/Wipe		04/17/12 09:30	04/17/12 14:09	100

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-55
Date Collected: 04/11/12 14:10
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-4
Matrix: Wipe

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	3.2		0.40		ug/Wipe		04/17/12 09:30	04/17/12 14:08	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-56
Date Collected: 04/11/12 14:10
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-5
Matrix: Wipe

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	16.1		4.0		ug/Wipe		04/17/12 09:30	04/17/12 14:07	10

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-57
Date Collected: 04/11/12 12:45
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-6
Matrix: Solid
Percent Solids: 94.4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	0.84		0.10		mg/Kg	☼	04/17/12 09:30	04/17/12 13:32	5

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-58
Date Collected: 04/11/12 16:20
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-7
Matrix: Solid
Percent Solids: 90.8

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	124		10.0		mg/Kg	☼	04/17/12 09:30	04/17/12 14:21	500

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-59
Date Collected: 04/11/12 13:10
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-8
Matrix: Solid
Percent Solids: 91.5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	60.6		2.1		mg/Kg	☼	04/17/12 09:30	04/17/12 13:39	100

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-60
Date Collected: 04/11/12 12:57
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-9
Matrix: Solid
Percent Solids: 89.3

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	8.1		1.0		mg/Kg	☼	04/17/12 09:30	04/17/12 13:40	50

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-61
Date Collected: 04/11/12 13:15
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-10
Matrix: Solid
Percent Solids: 92.3

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	4.2		0.39		mg/Kg	☼	04/17/12 09:30	04/17/12 13:41	20

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-62
Date Collected: 04/11/12 13:20
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-11
Matrix: Solid
Percent Solids: 93.4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	3.9		0.43		mg/Kg	☼	04/17/12 09:30	04/17/12 13:46	20

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-63

Lab Sample ID: 480-18643-12

Date Collected: 04/11/12 13:45

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*55 - 168*	*04/17/12 07:39*	*04/17/12 16:09*	*1*
Tetrachloro-m-xylene	*101*		*41 - 172*	*04/17/12 07:39*	*04/17/12 16:09*	*1*

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-64

Lab Sample ID: 480-18643-13

Date Collected: 04/11/12 14:19

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*55 - 168*	*04/17/12 07:39*	*04/17/12 16:24*	*1*
Tetrachloro-m-xylene	*103*		*41 - 172*	*04/17/12 07:39*	*04/17/12 16:24*	*1*

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-65

Lab Sample ID: 480-18643-14

Date Collected: 04/11/12 13:27

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*55 - 168*	*04/17/12 07:39*	*04/17/12 16:39*	*1*
Tetrachloro-m-xylene	*100*		*41 - 172*	*04/17/12 07:39*	*04/17/12 16:39*	*1*

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-66

Lab Sample ID: 480-18643-15

Date Collected: 04/11/12 14:05

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*55 - 168*	*04/17/12 07:39*	*04/17/12 16:54*	*1*
Tetrachloro-m-xylene	*110*		*41 - 172*	*04/17/12 07:39*	*04/17/12 16:54*	*1*

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-67

Lab Sample ID: 480-18643-16

Date Collected: 04/11/12 14:15

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*55 - 168*	*04/17/12 07:39*	*04/17/12 17:09*	*1*
Tetrachloro-m-xylene	*109*		*41 - 172*	*04/17/12 07:39*	*04/17/12 17:09*	*1*

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-68

Lab Sample ID: 480-18643-17

Date Collected: 04/11/12 14:15

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*55 - 168*	*04/17/12 07:39*	*04/17/12 17:23*	*1*
Tetrachloro-m-xylene	*98*		*41 - 172*	*04/17/12 07:39*	*04/17/12 17:23*	*1*

Surrogate Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Wipe **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCB2 (55-168)	TCX2 (41-172)						
480-18643-12	PDS-041112-63	97	101						
480-18643-13	PDS-041112-64	106	103						
480-18643-14	PDS-041112-65	101	100						
480-18643-15	PDS-041112-66	114	110						
480-18643-16	PDS-041112-67	108	109						
480-18643-17	PDS-041112-68	100	98						
LCS 480-59961/2-A	Lab Control Sample	132	128						
LCSD 480-59961/3-A	Lab Control Sample Dup	125	122						
MB 480-59961/1-A	Method Blank	122	122						

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-59961/1-A — **Client Sample ID: Method Blank**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 60038 — **Prep Batch: 59961**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 15:10	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 15:10	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 15:10	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 15:10	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 15:10	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 15:10	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 15:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*122*		*55 - 168*	*04/17/12 07:39*	*04/17/12 15:10*	*1*
Tetrachloro-m-xylene	*122*		*41 - 172*	*04/17/12 07:39*	*04/17/12 15:10*	*1*

Lab Sample ID: LCS 480-59961/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 60038 — **Prep Batch: 59961**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			20.0	23.9		ug/Wipe		120	46 - 191		
PCB-1260			20.0	24.8		ug/Wipe		124	57 - 174		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*132*		*55 - 168*
Tetrachloro-m-xylene	*128*		*41 - 172*

Lab Sample ID: LCSD 480-59961/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 60038 — **Prep Batch: 59961**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			20.0	20.2		ug/Wipe		101	46 - 191	16.7	50
PCB-1260			20.0	24.0		ug/Wipe		120	57 - 174	3.32	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*125*		*55 - 168*
Tetrachloro-m-xylene	*122*		*41 - 172*

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 480-59966/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60054 — **Prep Batch: 59966**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	ND		0.018		mg/Kg		04/17/12 09:30	04/17/12 13:29	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-59966/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60054 — **Prep Batch: 59966**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury, Total	3.77	3.70		mg/Kg		98	51 - 149

Lab Sample ID: 480-18643-6 MS — **Client Sample ID: PDS-041112-57**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60054 — **Prep Batch: 59966**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury, Total	0.84		0.324	1.33	F	mg/Kg	☼	151	75 - 125

Lab Sample ID: 480-18643-6 MSD — **Client Sample ID: PDS-041112-57**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60054 — **Prep Batch: 59966**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury, Total	0.84		0.320	0.635	F	mg/Kg	☼	-64	75 - 125	70.6	20

Lab Sample ID: MB 480-59977/1-A — **Client Sample ID: Method Blank**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 60054 — **Prep Batch: 59977**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		34.1		ug/Wipe		04/17/12 09:30	04/17/12 14:02	1

Lab Sample ID: LCS 480-59977/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 60054 — **Prep Batch: 59977**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	303	283.9		ug/Wipe		94	51 - 149

Lab Sample ID: LCSD 480-59977/4-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 60054 — **Prep Batch: 59977**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	325	317.3		ug/Wipe		98	51 - 149	11.1	20

Lab Sample ID: LCSSRM 480-59977/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 60054 — **Prep Batch: 59977**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	3770	3776		ug/Wipe		100	51 - 149

QC Association Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

GC Semi VOA

Prep Batch: 59961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18643-12	PDS-041112-63	Total/NA	Wipe	3550B	
480-18643-13	PDS-041112-64	Total/NA	Wipe	3550B	
480-18643-14	PDS-041112-65	Total/NA	Wipe	3550B	
480-18643-15	PDS-041112-66	Total/NA	Wipe	3550B	
480-18643-16	PDS-041112-67	Total/NA	Wipe	3550B	
480-18643-17	PDS-041112-68	Total/NA	Wipe	3550B	
LCS 480-59961/2-A	Lab Control Sample	Total/NA	Wipe	3550B	
LCSD 480-59961/3-A	Lab Control Sample Dup	Total/NA	Wipe	3550B	
MB 480-59961/1-A	Method Blank	Total/NA	Wipe	3550B	

Analysis Batch: 60038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18643-12	PDS-041112-63	Total/NA	Wipe	8082	59961
480-18643-13	PDS-041112-64	Total/NA	Wipe	8082	59961
480-18643-14	PDS-041112-65	Total/NA	Wipe	8082	59961
480-18643-15	PDS-041112-66	Total/NA	Wipe	8082	59961
480-18643-16	PDS-041112-67	Total/NA	Wipe	8082	59961
480-18643-17	PDS-041112-68	Total/NA	Wipe	8082	59961
LCS 480-59961/2-A	Lab Control Sample	Total/NA	Wipe	8082	59961
LCSD 480-59961/3-A	Lab Control Sample Dup	Total/NA	Wipe	8082	59961
MB 480-59961/1-A	Method Blank	Total/NA	Wipe	8082	59961

Metals

Prep Batch: 59966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18643-6	PDS-041112-57	Total/NA	Solid	7471A	
480-18643-6 MS	PDS-041112-57	Total/NA	Solid	7471A	
480-18643-6 MSD	PDS-041112-57	Total/NA	Solid	7471A	
480-18643-7	PDS-041112-58	Total/NA	Solid	7471A	
480-18643-8	PDS-041112-59	Total/NA	Solid	7471A	
480-18643-9	PDS-041112-60	Total/NA	Solid	7471A	
480-18643-10	PDS-041112-61	Total/NA	Solid	7471A	
480-18643-11	PDS-041112-62	Total/NA	Solid	7471A	
LCSSRM 480-59966/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 480-59966/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 59977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18643-1	PDS-041112-51	Total/NA	Wipe	7471A	
480-18643-2	PDS-041112-53	Total/NA	Wipe	7471A	
480-18643-3	PDS-041112-54	Total/NA	Wipe	7471A	
480-18643-4	PDS-041112-55	Total/NA	Wipe	7471A	
480-18643-5	PDS-041112-56	Total/NA	Wipe	7471A	
LCS 480-59977/3-A	Lab Control Sample	Total/NA	Wipe	7471A	
LCSD 480-59977/4-A	Lab Control Sample Dup	Total/NA	Wipe	7471A	
LCSSRM 480-59977/2-A	Lab Control Sample	Total/NA	Wipe	7471A	
MB 480-59977/1-A	Method Blank	Total/NA	Wipe	7471A	

Analysis Batch: 60054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18643-1	PDS-041112-51	Total/NA	Wipe	7471A	59977

Metals (Continued)

Analysis Batch: 60054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18643-2	PDS-041112-53	Total/NA	Wipe	7471A	59977
480-18643-3	PDS-041112-54	Total/NA	Wipe	7471A	59977
480-18643-4	PDS-041112-55	Total/NA	Wipe	7471A	59977
480-18643-5	PDS-041112-56	Total/NA	Wipe	7471A	59977
480-18643-6	PDS-041112-57	Total/NA	Solid	7471A	59966
480-18643-6 MS	PDS-041112-57	Total/NA	Solid	7471A	59966
480-18643-6 MSD	PDS-041112-57	Total/NA	Solid	7471A	59966
480-18643-7	PDS-041112-58	Total/NA	Solid	7471A	59966
480-18643-8	PDS-041112-59	Total/NA	Solid	7471A	59966
480-18643-9	PDS-041112-60	Total/NA	Solid	7471A	59966
480-18643-10	PDS-041112-61	Total/NA	Solid	7471A	59966
480-18643-11	PDS-041112-62	Total/NA	Solid	7471A	59966
LCS 480-59977/3-A	Lab Control Sample	Total/NA	Wipe	7471A	59977
LCSD 480-59977/4-A	Lab Control Sample Dup	Total/NA	Wipe	7471A	59977
LCSSRM 480-59966/2-A	Lab Control Sample	Total/NA	Solid	7471A	59966
LCSSRM 480-59977/2-A	Lab Control Sample	Total/NA	Wipe	7471A	59977
MB 480-59966/1-A	Method Blank	Total/NA	Solid	7471A	59966
MB 480-59977/1-A	Method Blank	Total/NA	Wipe	7471A	59977

General Chemistry

Analysis Batch: 60005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18643-6	PDS-041112-57	Total/NA	Solid	Moisture	
480-18643-7	PDS-041112-58	Total/NA	Solid	Moisture	
480-18643-8	PDS-041112-59	Total/NA	Solid	Moisture	
480-18643-9	PDS-041112-60	Total/NA	Solid	Moisture	
480-18643-10	PDS-041112-61	Total/NA	Solid	Moisture	
480-18643-11	PDS-041112-62	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-51 — Lab Sample ID: 480-18643-1

Date Collected: 04/11/12 13:35 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59977	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		100	60054	04/17/12 14:11	JRK	TAL BUF

Client Sample ID: PDS-041112-53 — Lab Sample ID: 480-18643-2

Date Collected: 04/11/12 13:25 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59977	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		50	60054	04/17/12 14:12	JRK	TAL BUF

Client Sample ID: PDS-041112-54 — Lab Sample ID: 480-18643-3

Date Collected: 04/11/12 13:55 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59977	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		100	60054	04/17/12 14:09	JRK	TAL BUF

Client Sample ID: PDS-041112-55 — Lab Sample ID: 480-18643-4

Date Collected: 04/11/12 14:10 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59977	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	60054	04/17/12 14:08	JRK	TAL BUF

Client Sample ID: PDS-041112-56 — Lab Sample ID: 480-18643-5

Date Collected: 04/11/12 14:10 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59977	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		10	60054	04/17/12 14:07	JRK	TAL BUF

Client Sample ID: PDS-041112-57 — Lab Sample ID: 480-18643-6

Date Collected: 04/11/12 12:45 — **Matrix: Solid**
Date Received: 04/12/12 09:00 — **Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		5	60054	04/17/12 13:32	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	60005	04/17/12 10:26	ZLR	TAL BUF

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-58 — Lab Sample ID: 480-18643-7

Date Collected: 04/11/12 16:20 — **Matrix: Solid**
Date Received: 04/12/12 09:00 — **Percent Solids: 90.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		500	60054	04/17/12 14:21	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	60005	04/17/12 10:26	ZLR	TAL BUF

Client Sample ID: PDS-041112-59 — Lab Sample ID: 480-18643-8

Date Collected: 04/11/12 13:10 — **Matrix: Solid**
Date Received: 04/12/12 09:00 — **Percent Solids: 91.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		100	60054	04/17/12 13:39	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	60005	04/17/12 10:26	ZLR	TAL BUF

Client Sample ID: PDS-041112-60 — Lab Sample ID: 480-18643-9

Date Collected: 04/11/12 12:57 — **Matrix: Solid**
Date Received: 04/12/12 09:00 — **Percent Solids: 89.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		50	60054	04/17/12 13:40	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	60005	04/17/12 10:26	ZLR	TAL BUF

Client Sample ID: PDS-041112-61 — Lab Sample ID: 480-18643-10

Date Collected: 04/11/12 13:15 — **Matrix: Solid**
Date Received: 04/12/12 09:00 — **Percent Solids: 92.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		20	60054	04/17/12 13:41	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	60005	04/17/12 10:26	ZLR	TAL BUF

Client Sample ID: PDS-041112-62 — Lab Sample ID: 480-18643-11

Date Collected: 04/11/12 13:20 — **Matrix: Solid**
Date Received: 04/12/12 09:00 — **Percent Solids: 93.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		20	60054	04/17/12 13:46	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	60005	04/17/12 10:26	ZLR	TAL BUF

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-63 — Lab Sample ID: 480-18643-12

Date Collected: 04/11/12 13:45 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			59961	04/17/12 07:39	CM	TAL BUF
Total/NA	Analysis	8082		1	60038	04/17/12 16:09	JM	TAL BUF

Client Sample ID: PDS-041112-64 — Lab Sample ID: 480-18643-13

Date Collected: 04/11/12 14:19 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			59961	04/17/12 07:39	CM	TAL BUF
Total/NA	Analysis	8082		1	60038	04/17/12 16:24	JM	TAL BUF

Client Sample ID: PDS-041112-65 — Lab Sample ID: 480-18643-14

Date Collected: 04/11/12 13:27 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			59961	04/17/12 07:39	CM	TAL BUF
Total/NA	Analysis	8082		1	60038	04/17/12 16:39	JM	TAL BUF

Client Sample ID: PDS-041112-66 — Lab Sample ID: 480-18643-15

Date Collected: 04/11/12 14:05 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			59961	04/17/12 07:39	CM	TAL BUF
Total/NA	Analysis	8082		1	60038	04/17/12 16:54	JM	TAL BUF

Client Sample ID: PDS-041112-67 — Lab Sample ID: 480-18643-16

Date Collected: 04/11/12 14:15 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			59961	04/17/12 07:39	CM	TAL BUF
Total/NA	Analysis	8082		1	60038	04/17/12 17:09	JM	TAL BUF

Client Sample ID: PDS-041112-68 — Lab Sample ID: 480-18643-17

Date Collected: 04/11/12 14:15 — **Matrix: Wipe**
Date Received: 04/12/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			59961	04/17/12 07:39	CM	TAL BUF
Total/NA	Analysis	8082		1	60038	04/17/12 17:23	JM	TAL BUF

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	Federal		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
7471A	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-18643-1	PDS-041112-51	Wipe	04/11/12 13:35	04/12/12 09:00
480-18643-2	PDS-041112-53	Wipe	04/11/12 13:25	04/12/12 09:00
480-18643-3	PDS-041112-54	Wipe	04/11/12 13:55	04/12/12 09:00
480-18643-4	PDS-041112-55	Wipe	04/11/12 14:10	04/12/12 09:00
480-18643-5	PDS-041112-56	Wipe	04/11/12 14:10	04/12/12 09:00
480-18643-6	PDS-041112-57	Solid	04/11/12 12:45	04/12/12 09:00
480-18643-7	PDS-041112-58	Solid	04/11/12 16:20	04/12/12 09:00
480-18643-8	PDS-041112-59	Solid	04/11/12 13:10	04/12/12 09:00
480-18643-9	PDS-041112-60	Solid	04/11/12 12:57	04/12/12 09:00
480-18643-10	PDS-041112-61	Solid	04/11/12 13:15	04/12/12 09:00
480-18643-11	PDS-041112-62	Solid	04/11/12 13:20	04/12/12 09:00
480-18643-12	PDS-041112-63	Wipe	04/11/12 13:45	04/12/12 09:00
480-18643-13	PDS-041112-64	Wipe	04/11/12 14:19	04/12/12 09:00
480-18643-14	PDS-041112-65	Wipe	04/11/12 13:27	04/12/12 09:00
480-18643-15	PDS-041112-66	Wipe	04/11/12 14:05	04/12/12 09:00
480-18643-16	PDS-041112-67	Wipe	04/11/12 14:15	04/12/12 09:00
480-18643-17	PDS-041112-68	Wipe	04/11/12 14:15	04/12/12 09:00

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown + Caldwell	Project Manager: Catherine Trent	Date: 4-11-12	Chain of Custody Number: 198196
Address: 110 Commerce Drive	Telephone Number (Area Code)/Fax Number: 201-574-4700	Lab Number	Page 1 of 2
City: Allendale; State: NJ; Zip Code	Site Contact: C. Trent	Lab Contact	
Project Name and Location (State): Colonie, NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Other	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tcl	Total Hg	Total TCLP Hg	PCB
PDS-041112-51	4/11/12	1335					X							X	X		
PDS-041112-53	4/11/12	1325					X							X	X		
PDS-041112-54		1355					X							X	X		
PDS-041112-55		1410					X							X	X		
PDS-041112-56		1410					X							X	X		
PDS-041112-57		1245					X							X		X	
PDS-041112-58		1620					X							X		X	
PDS-041112-59		1310					X							X		X	
PDS-041112-60		1257					X							X		X	
PDS-041112-61		1315					X							X		X	
PDS-041112-62		1320					X							X		X	
PDS-041112-63		1345					X							X			X

Special Instructions/ Conditions of Receipt

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By: Catherine E. Trent	Date: 4-11-12	Time: 16:40	1. Received By: [signature]	Date: 4/11/12	Time: 1640
2. Relinquished By: [signature]	Date: 4/11/12	Time: 1700	2. Received By: [signature]	Date: 4/12/12	Time: 900
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

2.5 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown Caldwell	Project Manager: Catherine Trent	Date: 4-11-12	Chain of Custody Number: 198197
Address: 110 Commerce Drive	Telephone Number (Area Code)/Fax Number: 201-574-4700	Lab Number	Page 2 of 2
City: Allendale; State: NJ; Zip Code	Site Contact: C. Trent	Lab Contact	
Project Name and Location (State): Colonie, NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil	Other	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	TCE	PCB
PDS-041112-64	4-11-12	1419					X							X	X
PDS-041112-65	↓	1327					X							X	X
PDS-041112-66		1405					X							X	X
PDS-041112-67		1415					X							X	X
PDS-041112-68		1415					X							X	X

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Catherine E. Trent	4-11-12	1640	1. Received By: [signature]	4/11/12	1640
2. Relinquished By: [signature]	4/11/12	1700	2. Received By: [signature]	4/12/12	9:00
3. Relinquished By:			3. Received By:		

Comments: 2.5 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample, PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-18643-1

Login Number: 18643
List Number: 1
Creator: Janish, Carl

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	b+c
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

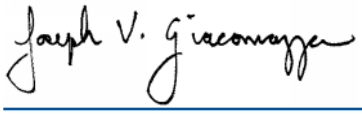
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-19050-1
Client Project/Site: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, New Jersey 07401

Attn: Ms. Cathy Trent



Authorized for release by:
4/27/2012 11:42:32 AM
Joe Giacomazza
Project Administrator
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Job ID: 480-19050-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-19050-1

Receipt
The samples were received on 4/25/2012 9:00 AM; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.50 C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Client Sample ID: PDS-042412-69 — Lab Sample ID: 480-19050-1

No Detections

Client Sample ID: DDS-042412-70 — Lab Sample ID: 480-19050-2

No Detections

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Client Sample ID: PDS-042412-69
Date Collected: 04/24/12 10:05
Date Received: 04/25/12 09:00

Lab Sample ID: 480-19050-1
Matrix: Wipe

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.40		ug/Wipe		04/26/12 10:30	04/26/12 13:52	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Client Sample ID: DDS-042412-70

Lab Sample ID: 480-19050-2

Date Collected: 04/24/12 10:08

Matrix: Wipe

Date Received: 04/25/12 09:00

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.40		ug/Wipe		04/26/12 10:30	04/26/12 13:53	1

QC Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 480-61629/1-A — **Client Sample ID: Method Blank**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 61684 — **Prep Batch: 61629**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		33.8		ug/Wipe		04/26/12 10:30	04/26/12 13:36	1

Lab Sample ID: LCS 480-61629/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 61684 — **Prep Batch: 61629**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg			321	333.0		ug/Wipe		104	51 - 149		

Lab Sample ID: LCSD 480-61629/4-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 61684 — **Prep Batch: 61629**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg			324	338.5		ug/Wipe		104	51 - 149	2	20

Lab Sample ID: LCSSRM 480-61629/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Wipe — **Prep Type: Total/NA**
Analysis Batch: 61684 — **Prep Batch: 61629**

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg			3770	4735		ug/Wipe		126	51 - 149		

QC Association Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Metals

Prep Batch: 61629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-19050-1	PDS-042412-69	Total/NA	Wipe	7471A	
480-19050-2	DDS-042412-70	Total/NA	Wipe	7471A	
LCS 480-61629/3-A	Lab Control Sample	Total/NA	Wipe	7471A	
LCSD 480-61629/4-A	Lab Control Sample Dup	Total/NA	Wipe	7471A	
LCSSRM 480-61629/2-A	Lab Control Sample	Total/NA	Wipe	7471A	
MB 480-61629/1-A	Method Blank	Total/NA	Wipe	7471A	

Analysis Batch: 61684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-19050-1	PDS-042412-69	Total/NA	Wipe	7471A	61629
480-19050-2	DDS-042412-70	Total/NA	Wipe	7471A	61629
LCS 480-61629/3-A	Lab Control Sample	Total/NA	Wipe	7471A	61629
LCSD 480-61629/4-A	Lab Control Sample Dup	Total/NA	Wipe	7471A	61629
LCSSRM 480-61629/2-A	Lab Control Sample	Total/NA	Wipe	7471A	61629
MB 480-61629/1-A	Method Blank	Total/NA	Wipe	7471A	61629

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Client Sample ID: PDS-042412-69

Lab Sample ID: 480-19050-1

Date Collected: 04/24/12 10:05

Matrix: Wipe

Date Received: 04/25/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			61629	04/26/12 10:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	61684	04/26/12 13:52	JRK	TAL BUF

Client Sample ID: DDS-042412-70

Lab Sample ID: 480-19050-2

Date Collected: 04/24/12 10:08

Matrix: Wipe

Date Received: 04/25/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			61629	04/26/12 10:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	61684	04/26/12 13:53	JRK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	Federal		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Method	Method Description	Protocol	Laboratory
7471A	Mercury (CVAA)	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-19050-1	PDS-042412-69	Wipe	04/24/12 10:05	04/25/12 09:00
480-19050-2	DDS-042412-70	Wipe	04/24/12 10:08	04/25/12 09:00

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Cathy Trent	Date: 4-24-12	Chain of Custody Number: 212584
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-4700	Lab Number	Page 1 of 1
City: Allendale; State: NJ; Zip Code	Site Contact: C. Trent	Lab Contact	
Project Name and Location (State): Colonie, NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil	Wipe	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Ice	Total Hg	Special Instructions/ Conditions of Receipt
PDS-042412-69	4/24/12	10:05					X							X	X	
DDS-042412-70	4/24/12	10:08					X							X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 3 days

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/24/12	10:23	1. Received By	4/24/12	10:23
2. Relinquished By	4/24/12	1700	2. Received By	4-25-12	09:00
3. Relinquished By			3. Received By		

Comments

2.5 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-19050-1

Login Number: 19050
List Number: 1
Creator: Janish, Carl

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix D: Data Usability Summary Report (DUSR)

BROWN AND CALDWELL
Environmental Engineers & Consultants

QUALITATIVE
DATA USABILITY SUMMARY REPORT
Colonie, New York, Mercury Refining Site
April 2012 Building Materials and Surface Wipes

SDG Nos.: 18643-1 and 19050-1

Laboratory: TestAmerica Buffalo, Amherst, New York

Site: Mercury Refining Site, Colonie, New York

Date: May 8, 2012

Samples

Data from the following samples were reviewed:

Laboratory ID	Client ID	Matrix
480-18643-1	PDS-041112-51	Surface Wipe
480-18643-2	PDS-041112-53	Surface Wipe
480-18643-3	PDS-041112-54	Surface Wipe
480-18643-4	PDS-041112-55	Surface Wipe
480-18643-5	PDS-041112-56	Surface Wipe
480-18643-6	PDS-041112-57	Building Materials
480-18643-7	PDS-041112-58	Building Materials
480-18643-8	PDS-041112-59	Building Materials
480-18643-9	PDS-041112-60	Building Materials
480-18643-10	PDS-041112-61	Building Materials
480-18643-11	PDS-041112-62	Building Materials
480-18643-12	PDS-041112-63	Building Materials
480-18643-13	PDS-041112-64	Building Materials
480-18643-14	PDS-041112-65	Building Materials

480-18643-15	PDS-041112-66	Building Materials
480-18643-16	PDS-041112-67	Building Materials
480-18643-17	PDS-041112-68	Building Materials
480-19050-1	PDS-042412-69	Surface Wipe
480-19050-1	PDS-042412-70	Surface Wipe

A Qualitative Data Usability Review was performed on all analytical data from SDGs 18643-1 and 19050-1. The samples were collected at the Mercury Refining Site, in Colonie, New York. The following table outlines the analytical methods used to analyze the samples;

Analysis	**Method**
Mercury	SW 846 7471A
PCBs	SW846 8082

Samples PDS-041112-51, 53-62, and PDS-042412-69 and -70 were analyzed for mercury by Method SW7471A. TCLP mercury was requested on the COCs. However, insufficient sample volume was collected to perform the analysis. Samples PDS-041112-63 thru -68 were analyzed for PCBs by Method SW8082.

This review was performed in accordance with NYSDEC Guidance for the Development of Data Usability Summary Reports (revised September 1997).

Data Package Completeness

- The data package was received complete as defined under the requirements for the NYSDEC ASP Category B and USEPA CLP deliverables.

Chains of Custody

The Chains-of Custody (COCs) were reviewed for completeness and accuracy. There were no discrepancies noted and all requested analyses were performed.

Review Items

The following were reviewed for the inorganic analyses in this report:

- Case narrative

- Analysis data sheets (Form 1's)
- Holding time and sample preservation
- Blank contamination
- Matrix Spike/Matrix Spike duplicate (MS/MSD) recoveries
- Lab Control Sample/Lab Control Sample duplicate (LCS/LCSD) recoveries
- Laboratory duplicate precision
- Field duplicate precision

The items listed above were technically and contractually in compliance with the method and Work Plan requirements, with the exceptions discussed in the following text.

Mercury by Method SW7471A

No data qualification was warranted.

PCBs by Method SW8082

No data qualification was warranted.

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes and no data qualification was warranted. All results are considered usable for the stated purposes.

Signed: _____ Dated: 5/8/2012

Gregory J.Cole
Senior Chemist
Brown and Caldwell
10540 White Rock Road, Suite 180
Rancho Cordova, CA 95670
Direct: (916) 853-5320
Fax: (916) 635-8805

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-51

Date Collected: 04/11/12 13:35
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-1

Matrix: Wipe

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	156		40.0		ug/Wipe		04/17/12 09:30	04/17/12 14:11	100

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-53

Lab Sample ID: 480-18643-2

Date Collected: 04/11/12 13:25

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	97.5		20.0		ug/Wipe		04/17/12 09:30	04/17/12 14:12	50

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-54

Lab Sample ID: 480-18643-3

Date Collected: 04/11/12 13:55

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	206		40.0		ug/Wipe		04/17/12 09:30	04/17/12 14:09	100

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-55

Lab Sample ID: 480-18643-4

Date Collected: 04/11/12 14:10

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	3.2		0.40		ug/Wipe		04/17/12 09:30	04/17/12 14:08	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-56

Date Collected: 04/11/12 14:10
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-5

Matrix: Wipe

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	16.1		4.0		ug/Wipe		04/17/12 09:30	04/17/12 14:07	10

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-57

Lab Sample ID: 480-18643-6

Date Collected: 04/11/12 12:45
Date Received: 04/12/12 09:00

Matrix: Solid
Percent Solids: 94.4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	0.84		0.10		mg/Kg	☼	04/17/12 09:30	04/17/12 13:32	5

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-58

Date Collected: 04/11/12 16:20
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-7

Matrix: Solid
Percent Solids: 90.8

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	124		10.0		mg/Kg	☼	04/17/12 09:30	04/17/12 14:21	500

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-59

Date Collected: 04/11/12 13:10
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-8

Matrix: Solid
Percent Solids: 91.5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	60.6		2.1		mg/Kg	☼	04/17/12 09:30	04/17/12 13:39	100

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-60

Date Collected: 04/11/12 12:57
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-9

Matrix: Solid
Percent Solids: 89.3

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	8.1		1.0		mg/Kg	☼	04/17/12 09:30	04/17/12 13:40	50

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-61

Lab Sample ID: 480-18643-10

Date Collected: 04/11/12 13:15

Matrix: Solid

Date Received: 04/12/12 09:00

Percent Solids: 92.3

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	4.2		0.39		mg/Kg	☼	04/17/12 09:30	04/17/12 13:41	20

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-62

Date Collected: 04/11/12 13:20
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-11

Matrix: Solid
Percent Solids: 93.4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Total	3.9		0.43		mg/Kg	☼	04/17/12 09:30	04/17/12 13:46	20

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-63

Lab Sample ID: 480-18643-12

Date Collected: 04/11/12 13:45

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*55 - 168*	*04/17/12 07:39*	*04/17/12 16:09*	*1*
Tetrachloro-m-xylene	*101*		*41 - 172*	*04/17/12 07:39*	*04/17/12 16:09*	*1*

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-64

Date Collected: 04/11/12 14:19
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-13

Matrix: Wipe

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*55 - 168*	*04/17/12 07:39*	*04/17/12 16:24*	*1*
Tetrachloro-m-xylene	*103*		*41 - 172*	*04/17/12 07:39*	*04/17/12 16:24*	*1*

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-65

Lab Sample ID: 480-18643-14

Date Collected: 04/11/12 13:27

Matrix: Wipe

Date Received: 04/12/12 09:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*55 - 168*	*04/17/12 07:39*	*04/17/12 16:39*	*1*
Tetrachloro-m-xylene	*100*		*41 - 172*	*04/17/12 07:39*	*04/17/12 16:39*	*1*

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-66

Date Collected: 04/11/12 14:05
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-15

Matrix: Wipe

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*55 - 168*	*04/17/12 07:39*	*04/17/12 16:54*	*1*
Tetrachloro-m-xylene	*110*		*41 - 172*	*04/17/12 07:39*	*04/17/12 16:54*	*1*

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-67

Date Collected: 04/11/12 14:15
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-16

Matrix: Wipe

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*55 - 168*	*04/17/12 07:39*	*04/17/12 17:09*	*1*
Tetrachloro-m-xylene	*109*		*41 - 172*	*04/17/12 07:39*	*04/17/12 17:09*	*1*

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Client Sample ID: PDS-041112-68

Date Collected: 04/11/12 14:15
Date Received: 04/12/12 09:00

Lab Sample ID: 480-18643-17

Matrix: Wipe

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1221	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1232	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1242	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1248	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1254	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1
PCB-1260	ND		1.0		ug/Wipe		04/17/12 07:39	04/17/12 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*55 - 168*	*04/17/12 07:39*	*04/17/12 17:23*	*1*
Tetrachloro-m-xylene	*98*		*41 - 172*	*04/17/12 07:39*	*04/17/12 17:23*	*1*

Surrogate Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-18643-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Wipe

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCB2 (55-168)	TCX2 (41-172)						
480-18643-12	PDS-041112-63	97	101						
480-18643-13	PDS-041112-64	106	103						
480-18643-14	PDS-041112-65	101	100						
480-18643-15	PDS-041112-66	114	110						
480-18643-16	PDS-041112-67	108	109						
480-18643-17	PDS-041112-68	100	98						
LCS 480-59961/2-A	Lab Control Sample	132	128						
LCSD 480-59961/3-A	Lab Control Sample Dup	125	122						
MB 480-59961/1-A	Method Blank	122	122						

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Client Sample ID: PDS-042412-69

Date Collected: 04/24/12 10:05
Date Received: 04/25/12 09:00

Lab Sample ID: 480-19050-1

Matrix: Wipe

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.40		ug/Wipe		04/26/12 10:30	04/26/12 13:52	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-19050-1

Client Sample ID: DDS-042412-70

Date Collected: 04/24/12 10:08
Date Received: 04/25/12 09:00

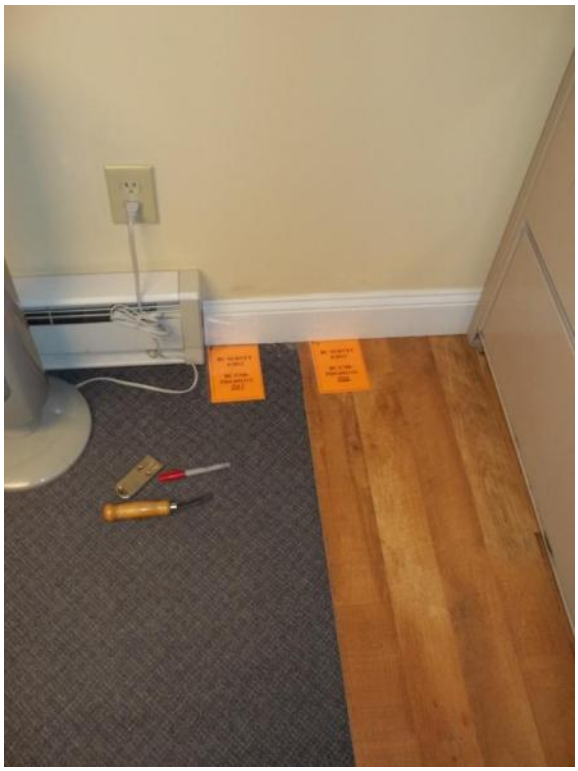
Lab Sample ID: 480-19050-2

Matrix: Wipe

Method: 7471A - Mercury (CVAA)

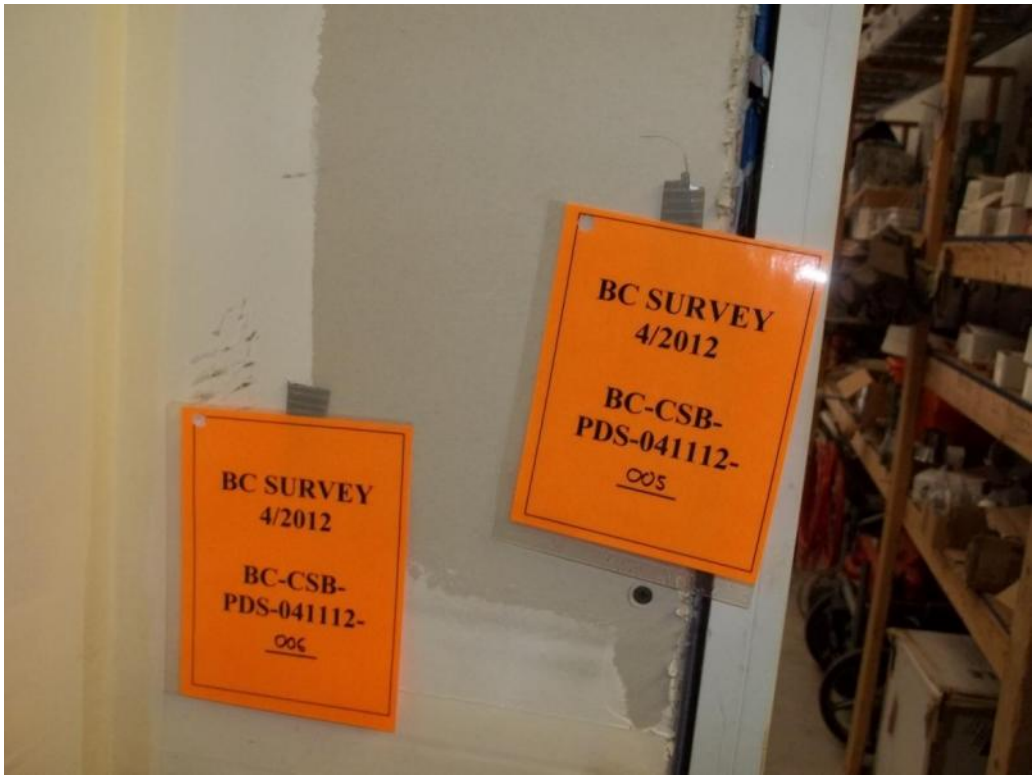
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.40		ug/Wipe		04/26/12 10:30	04/26/12 13:53	1

Appendix E: Photographic Log



Photograph # 1: Date: 04/11/12 Photographer's Initials: CET
Description: Interior office – Sample locations BC-CSB-PDS-041112-001 and -002

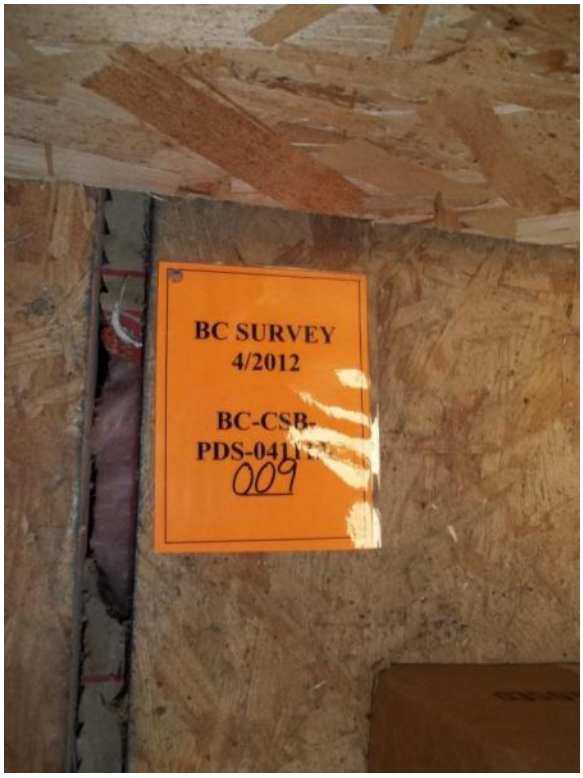
Photograph # 2: Date: 04/11/12 Photographer's Initials: CET
Description: Interior office – Sample locations BC-CSB-PDS-041112-003 and -004



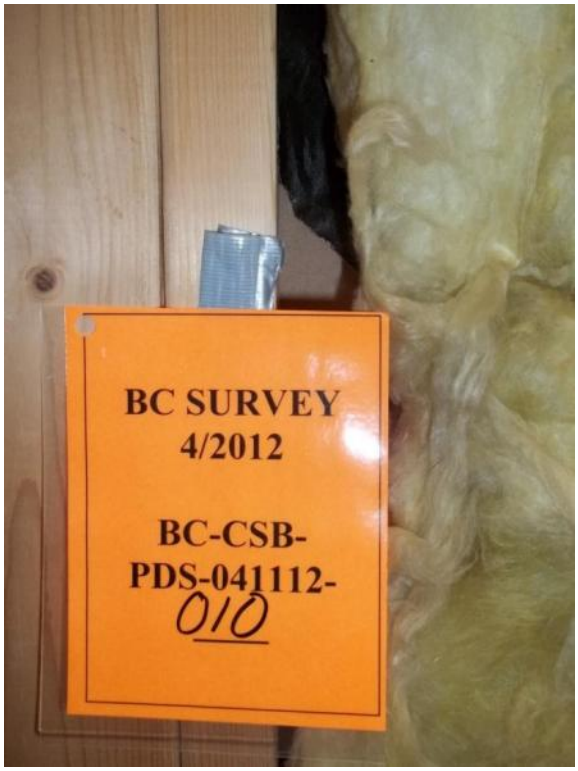
Photograph # 3: Date: 04/11/12 Photographer's Initials: CET
Description: Interior office (exterior closet) – Sample locations BC-CSB-PDS-041112-005 and -006

Photograph # 4: Date: 04/11/12 Photographer's Initials: CET
Description: North wall (fire wall) – Sample location BC-CSB-PDS-041112-007

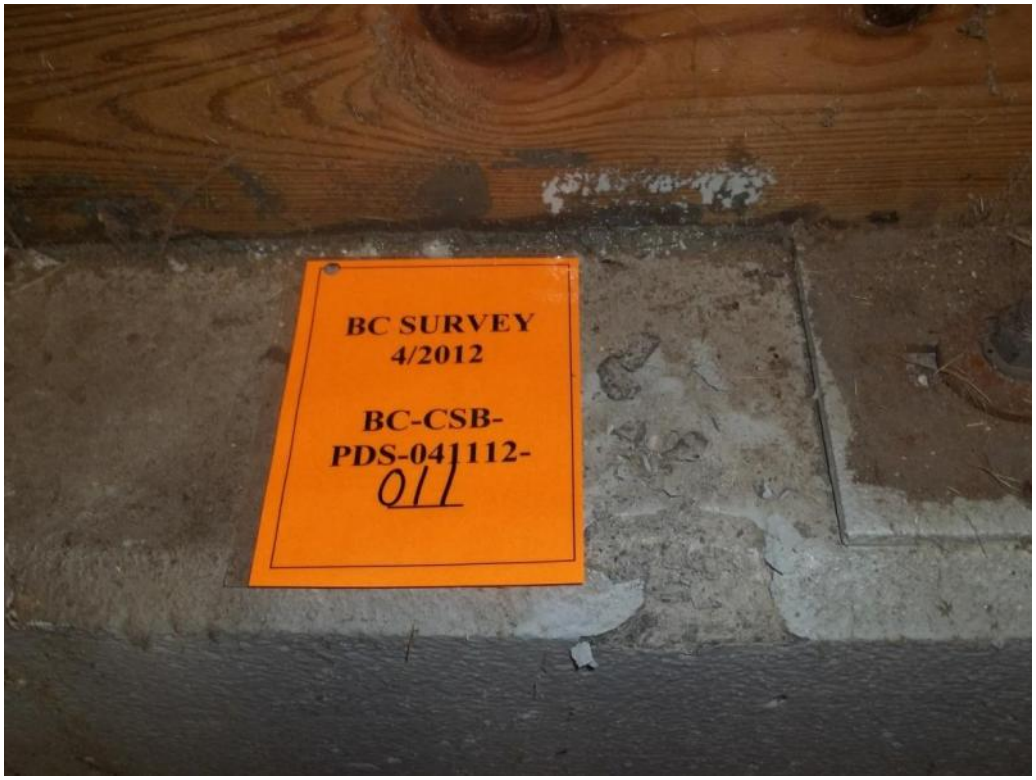
Photograph # 5: Date: 04/11/12 Photographer's Initials: CET
Description: SW corner outside face of interior office – Sample location BC-CSB-PDS-041112-008



Photograph # 6: Date: 04/11/12 Photographer's Initials: CET
Description: roof of interior office – Sample location BC-CSB-PDS-041112-009



Photograph # 7: Date: 04/11/12 Photographer's Initials: CET
Description: East exterior wall of interior office – Sample location BC-CSB-PDS-041112-010



Photograph # 8: Date: 04/11/12 Photographer's Initials: CET
Description: SE corner at rear manway step – Sample location BC-CSB-PDS-041112-011

Photograph # 9: Date: 04/11/12 Photographer's Initials: CET
Description: Ramp to roll-up door along N wall – – Sample location BC-CSB-PDS-041112-012

Photograph # 10: Date: 04/11/12 Photographer's Initials: CET
Description: Exterior office - Sample locations BC-CSB-PDS-041112-013 and -014

Photograph # 11: Date: 04/11/12 Photographer's Initials: CET
Description: Ceiling of exterior office – Sample location BC-CSB-PDS-041112-015

Photograph # 12: Date: 04/11/12 Photographer's Initials: CET
Description: Ceiling of exterior office – Sample location BC-CSB-PDS-041112-016

Photograph # 13: Date: 04/11/12 Photographer's Initials: CET
Description: Floor of exterior office – Sample location BC-CSB-PDS-041112-017 and -018

Photograph # 14: Date: 04/11/12 Photographer's Initials: CET
Description: Wall of exterior office – Sample location BC-CSB-PDS-041112-019 and -020

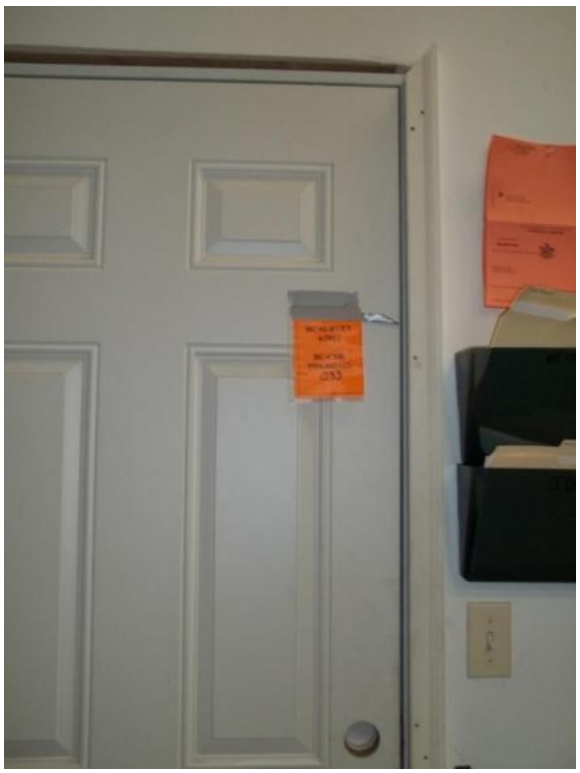
Photograph # 15: Date: 04/11/12 Photographer's Initials: CET
Description: Wall of exterior office – Sample location BC-CSB-PDS-041112-021 and -022

Photograph # 16: Date: 04/11/12 Photographer's Initials: CET
Description: Roof of exterior office – Sample locations BC-CSB-PDS-041112-023, -024, -025 and -026

Photograph # 17: Date: 04/11/12 Photographer's Initials: CET
Description: Ceiling – Sample locations BC-CSB-PDS-041112-027 (ballasts) and -028 (light bulbs)

Photograph # 18: Date: 04/11/12 Photographer's Initials: CET
Description: North wall, right of roll-up door – Sample locations BC-CSB-PDS-041112-029 and -031

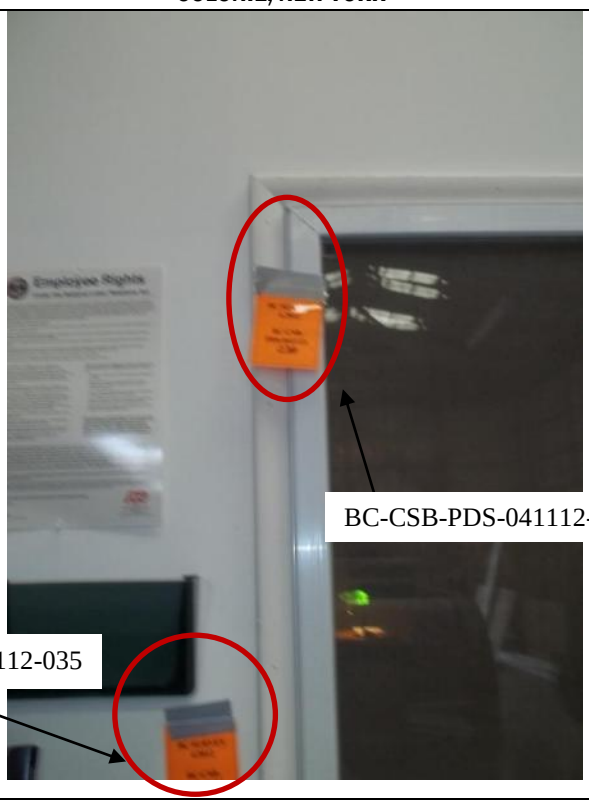
Photograph # 19: Date: 04/11/12 Photographer's Initials: CET
Description: East wall, above manway – Sample location BC-CSB-PDS-041112-030 and -032



Photograph # 20: Date: 04/11/12 Photographer's Initials: CET
Description: Interior office – Sample location BC-CSB-PDS-041112-033

Photograph # 21: Date: 04/11/12 Photographer's Initials: CET
Description: Interior office – Sample location BC-CSB-PDS-041112-034

Photograph # 22: Date: 04/11/12 Photographer's Initials: CET
Description: Interior office – Sample location BC-CSB-PDS-041112-035



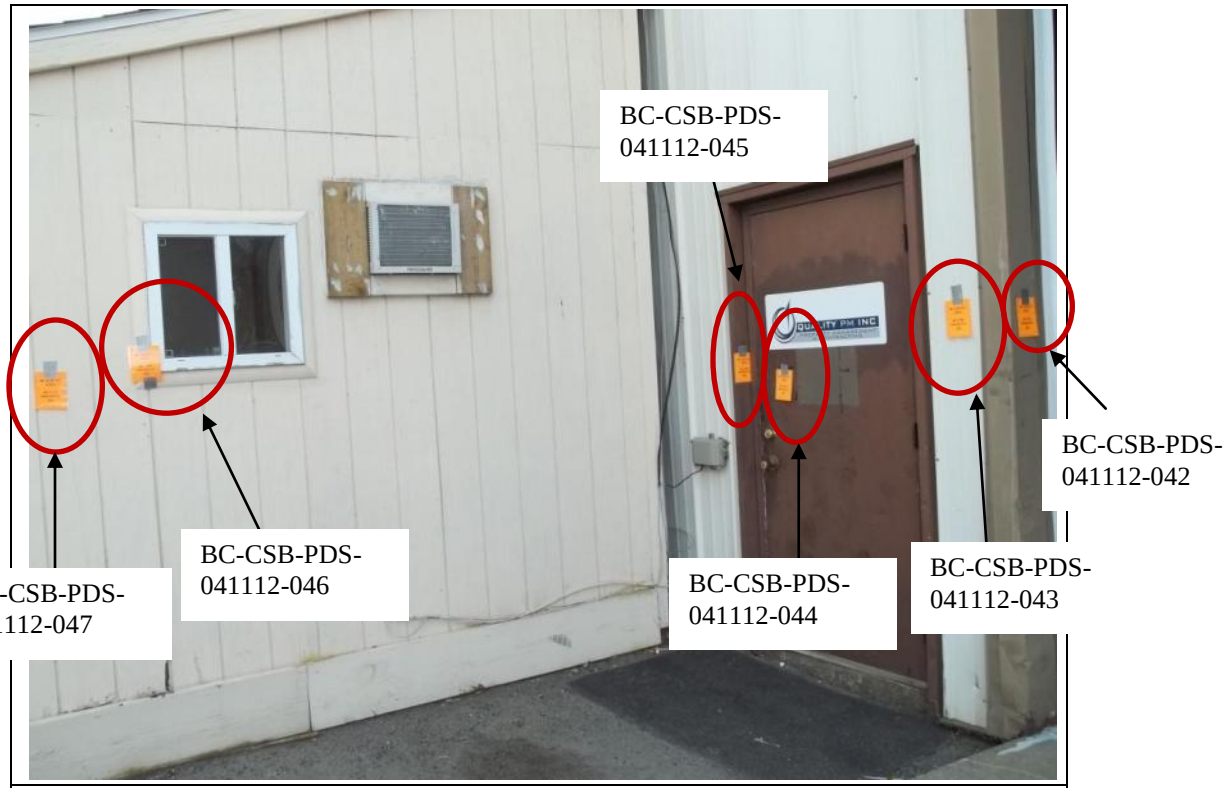
Photograph # 23: Date: 04/11/12 Photographer's Initials: CET
Description: Interior office – Sample locations BC-CSB-PDS-041112-035 and -036

Photograph # 24: Date: 04/11/12 Photographer's Initials: CET
Description: SE corner at rear manway – Sample locations BC-CSB-PDS-041112-037 and -038

Photograph # 25: Date: 04/11/12 Photographer's Initials: CET
Description: Floor near S wall – Sample location BC-CSB-PDS-041112-039

Photograph # 26: Date: 04/11/12 Photographer's Initials: CET
Description: North wall – Sample location BC-CSB-PDS-041112-040

Photograph # 27: Date: 04/11/12 Photographer's Initials: CET
Description: North wall – Sample location BC-CSB-PDS-041112-041

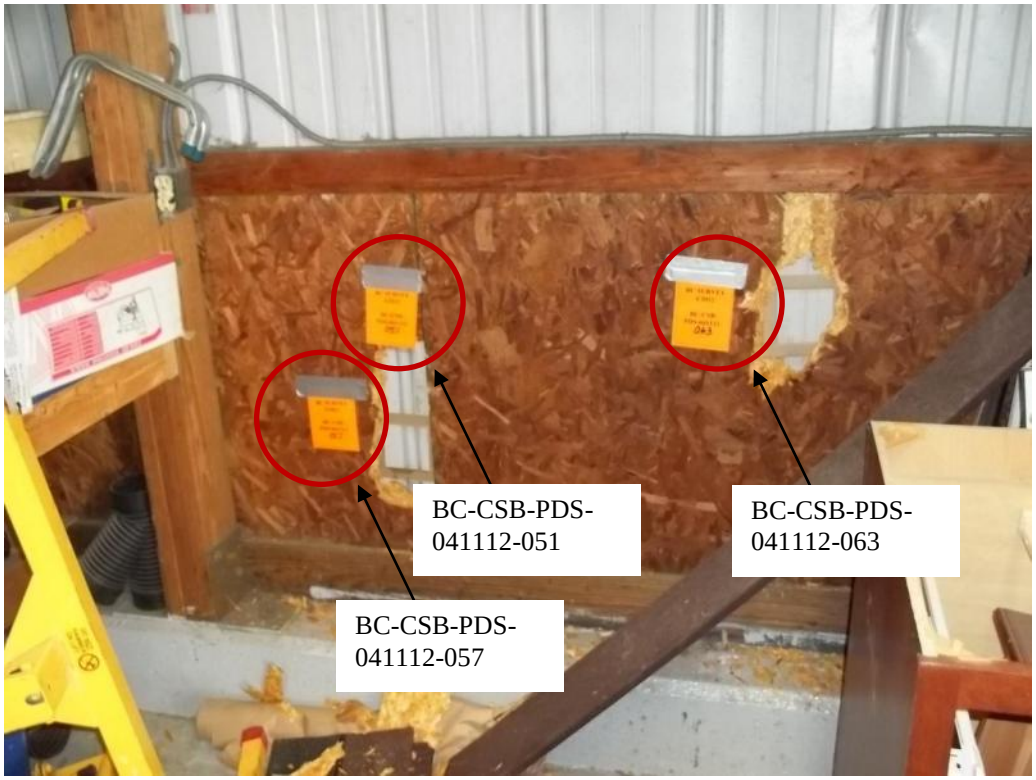


Photograph # 28: Date: 04/11/12 Photographer's Initials: CET
Description: North wall and W wall of exterior building – Sample locations BC-CSB-PDS-041112-042, -043, -044, -045, -046, and -047

Photograph # 29: Date: 04/11/12 Photographer's Initials: CET
Description: Manway on N wall of exterior office – Sample location BC-CSB-PDS-041112-048

Photograph # 30: Date: 04/11/12 Photographer's Initials: CET
Description: Manway on N wall of exterior office – Sample location BC-CSB-PDS-041112-049

Photograph # 31: Date: 04/11/12 Photographer's Initials: CET
Description: East wall manway – Sample location BC-CSB-PDS-041112-050



Photograph # 32: Date: 04/11/12 Photographer's Initials: CET
Description: South wall – Sample locations BC-CSB-PDS-041112-51, -057 and -063

Photograph # 33: Date: 04/11/12 Photographer's Initials: CET
Description: South wall – Sample location BC-CSB-PDS-041112-58

Photograph # 34: Date: 04/11/12 Photographer's Initials: CET
Description: South wall – Sample location BC-CSB-PDS-041112-64

Photograph # 35: Date: 04/11/12 Photographer's Initials: CET
Description: West wall – Sample locations BC-CSB-PDS-041112-53, -059 and -065

Photograph # 36: Date: 04/11/12 Photographer's Initials: CET
Description: East wall – Sample location BC-CSB-PDS-041112-68

Photograph # 37: Date: 04/11/12 Photographer's Initials: CET
Description: South wall near roof line – Sample location BC-CSB-PDS-041112-69

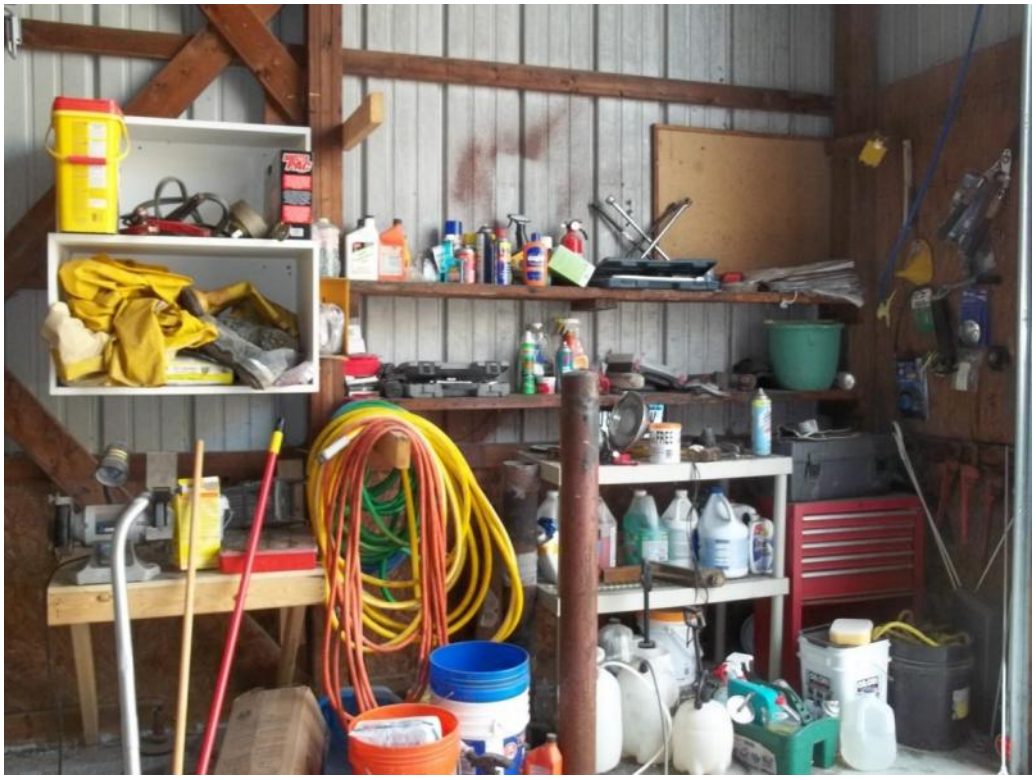
Photograph # 38: Date: 04/11/12 Photographer's Initials: CET
Description: South wall near roof line – Sample location BC-CSB-PDS-041112-69

Photograph # 39: Date: 04/11/12 Photographer's Initials: CET
Description: Workbench outside interior office on W wall– Sample location BC-CSB-PDS-041112-70

Photograph # 40: Date: 04/11/12 Photographer's Initials: CET
Description: Workbench along S wall– Sample location BC-CSB-PDS-041112-73

Photograph # 41: Date: 04/11/12 Photographer's Initials: CET
Description: East wall– Sample location BC-CSB-PDS-041112-74

Photograph # 42: Date: 04/11/12 Photographer's Initials: CET
Description: Closet outside interior office – Sample location BC-CSB-PDS-041112-75



Photograph # 43: Date: 04/11/12 Photographer's Initials: CET
Description: Along W wall near roll-up door – Sample location BC-CSB-PDS-041112-75

Photograph # 44: Date: 4/24/12 Photographer's Initials: FJW
Description: Along N, 10th panel in from NE corner – Sample location BC-CSB-PDS-042412-069

Photograph # 45: Date: 4/24/12 Photographer's Initials: FJW
Description: Along N, 10th panel east of wooden addition – Sample location BC-CSB-PDS-042412-070

TCLP TEST RESULTS
SUPPLEMENTAL SAMPLES
COLLECTED MAY 25, 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-20559-1
Client Project/Site: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, New Jersey 07401

Attn: Ms. Cathy Trent

Authorized for release by:
6/1/2012 8:46:33 AM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Job ID: 480-20559-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-20559-1

Comments
No additional comments.

Receipt
The samples were received on 5/26/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

Metals
Method(s) 7470A: The following sample was diluted due to the abundance of the target analyte mercury: BC-CSB-PDS-052512-077 (480-20559-2), BC-CSB-PDS-052512-083 (480-20559-8). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples: BC-CSB-PDS-052512-078 (480-20559-3). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample was prepared and analyzed at a 1:5 dilution, which maintained the purple color during digestion.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-076 — Lab Sample ID: 480-20559-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0042		0.00020		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-077 — Lab Sample ID: 480-20559-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.021		0.0010		mg/L	5		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-078 — Lab Sample ID: 480-20559-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.047		0.0010		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-079 — Lab Sample ID: 480-20559-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00042		0.00020		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-080 — Lab Sample ID: 480-20559-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00036		0.00020		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-081 — Lab Sample ID: 480-20559-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00040		0.00020		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-082 — Lab Sample ID: 480-20559-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0022		0.00020		mg/L	1		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-083 — Lab Sample ID: 480-20559-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.023		0.0010		mg/L	5		7470A	TCLP

Client Sample ID: BC-CSB-PDS-052512-084 — Lab Sample ID: 480-20559-9

No Detections

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-076
Date Collected: 05/25/12 10:10
Date Received: 05/26/12 09:00

Lab Sample ID: 480-20559-1
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0042		0.00020		mg/L		05/31/12 10:30	05/31/12 14:44	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-077

Lab Sample ID: 480-20559-2

Date Collected: 05/25/12 10:28

Matrix: Solid

Date Received: 05/26/12 09:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.0010		mg/L		05/31/12 10:30	05/31/12 14:46	5

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-078
Date Collected: 05/25/12 10:34
Date Received: 05/26/12 09:00

Lab Sample ID: 480-20559-3
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.0010		mg/L		05/31/12 10:30	05/31/12 14:48	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-079
Date Collected: 05/25/12 10:55
Date Received: 05/26/12 09:00

Lab Sample ID: 480-20559-4
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00042		0.00020		mg/L		05/31/12 10:30	05/31/12 14:49	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-080

Lab Sample ID: 480-20559-5

Date Collected: 05/25/12 11:04

Matrix: Solid

Date Received: 05/26/12 09:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020		mg/L		05/31/12 10:30	05/31/12 14:51	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-081
Date Collected: 05/25/12 11:41
Date Received: 05/26/12 09:00

Lab Sample ID: 480-20559-6
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00040		0.00020		mg/L		05/31/12 10:30	05/31/12 14:53	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-082

Lab Sample ID: 480-20559-7

Date Collected: 05/25/12 12:03

Matrix: Solid

Date Received: 05/26/12 09:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0022		0.00020		mg/L		05/31/12 10:30	05/31/12 14:55	1

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-083

Lab Sample ID: 480-20559-8

Date Collected: 05/25/12 12:08

Matrix: Solid

Date Received: 05/26/12 09:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.0010		mg/L		05/31/12 10:30	05/31/12 14:58	5

Client Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-084
Date Collected: 05/25/12 12:14
Date Received: 05/26/12 09:00

Lab Sample ID: 480-20559-9
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/31/12 10:30	05/31/12 15:00	1

QC Sample Results

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-66539/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 66614 — **Prep Batch: 66539**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/31/12 10:30	05/31/12 14:25	1

Lab Sample ID: LCS 480-66539/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 66614 — **Prep Batch: 66539**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00602		mg/L		90	80 - 120		

Lab Sample ID: LB 480-66393/1-C LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 66614 — **Prep Batch: 66539**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/31/12 10:30	05/31/12 14:23	1

QC Association Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Metals

Leach Batch: 66393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20559-1	BC-CSB-PDS-052512-076	TCLP	Solid	1311	
480-20559-2	BC-CSB-PDS-052512-077	TCLP	Solid	1311	
480-20559-3	BC-CSB-PDS-052512-078	TCLP	Solid	1311	
480-20559-4	BC-CSB-PDS-052512-079	TCLP	Solid	1311	
480-20559-5	BC-CSB-PDS-052512-080	TCLP	Solid	1311	
480-20559-6	BC-CSB-PDS-052512-081	TCLP	Solid	1311	
480-20559-7	BC-CSB-PDS-052512-082	TCLP	Solid	1311	
480-20559-8	BC-CSB-PDS-052512-083	TCLP	Solid	1311	
480-20559-9	BC-CSB-PDS-052512-084	TCLP	Solid	1311	
LB 480-66393/1-C LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 66539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20559-1	BC-CSB-PDS-052512-076	TCLP	Solid	7470A	66393
480-20559-2	BC-CSB-PDS-052512-077	TCLP	Solid	7470A	66393
480-20559-3	BC-CSB-PDS-052512-078	TCLP	Solid	7470A	66393
480-20559-4	BC-CSB-PDS-052512-079	TCLP	Solid	7470A	66393
480-20559-5	BC-CSB-PDS-052512-080	TCLP	Solid	7470A	66393
480-20559-6	BC-CSB-PDS-052512-081	TCLP	Solid	7470A	66393
480-20559-7	BC-CSB-PDS-052512-082	TCLP	Solid	7470A	66393
480-20559-8	BC-CSB-PDS-052512-083	TCLP	Solid	7470A	66393
480-20559-9	BC-CSB-PDS-052512-084	TCLP	Solid	7470A	66393
LB 480-66393/1-C LB	Method Blank	TCLP	Solid	7470A	66393
LCS 480-66539/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 480-66539/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 66614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20559-1	BC-CSB-PDS-052512-076	TCLP	Solid	7470A	66539
480-20559-2	BC-CSB-PDS-052512-077	TCLP	Solid	7470A	66539
480-20559-3	BC-CSB-PDS-052512-078	TCLP	Solid	7470A	66539
480-20559-4	BC-CSB-PDS-052512-079	TCLP	Solid	7470A	66539
480-20559-5	BC-CSB-PDS-052512-080	TCLP	Solid	7470A	66539
480-20559-6	BC-CSB-PDS-052512-081	TCLP	Solid	7470A	66539
480-20559-7	BC-CSB-PDS-052512-082	TCLP	Solid	7470A	66539
480-20559-8	BC-CSB-PDS-052512-083	TCLP	Solid	7470A	66539
480-20559-9	BC-CSB-PDS-052512-084	TCLP	Solid	7470A	66539
LB 480-66393/1-C LB	Method Blank	TCLP	Solid	7470A	66539
LCS 480-66539/3-A	Lab Control Sample	Total/NA	Solid	7470A	66539
MB 480-66539/2-A	Method Blank	Total/NA	Solid	7470A	66539

General Chemistry

Analysis Batch: 66389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20559-1	BC-CSB-PDS-052512-076	Total/NA	Solid	Moisture	
480-20559-2	BC-CSB-PDS-052512-077	Total/NA	Solid	Moisture	
480-20559-3	BC-CSB-PDS-052512-078	Total/NA	Solid	Moisture	
480-20559-4	BC-CSB-PDS-052512-079	Total/NA	Solid	Moisture	
480-20559-5	BC-CSB-PDS-052512-080	Total/NA	Solid	Moisture	
480-20559-6	BC-CSB-PDS-052512-081	Total/NA	Solid	Moisture	
480-20559-7	BC-CSB-PDS-052512-082	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 66389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20559-8	BC-CSB-PDS-052512-083	Total/NA	Solid	Moisture	
480-20559-9	BC-CSB-PDS-052512-084	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-076 — Lab Sample ID: 480-20559-1

Date Collected: 05/25/12 10:10 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:44	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-077 — Lab Sample ID: 480-20559-2

Date Collected: 05/25/12 10:28 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		5	66614	05/31/12 14:46	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-078 — Lab Sample ID: 480-20559-3

Date Collected: 05/25/12 10:34 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:48	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-079 — Lab Sample ID: 480-20559-4

Date Collected: 05/25/12 10:55 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:49	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-080 — Lab Sample ID: 480-20559-5

Date Collected: 05/25/12 11:04 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:51	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Client Sample ID: BC-CSB-PDS-052512-081 — Lab Sample ID: 480-20559-6

Date Collected: 05/25/12 11:41 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:53	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-082 — Lab Sample ID: 480-20559-7

Date Collected: 05/25/12 12:03 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 14:55	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-083 — Lab Sample ID: 480-20559-8

Date Collected: 05/25/12 12:08 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		5	66614	05/31/12 14:58	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Client Sample ID: BC-CSB-PDS-052512-084 — Lab Sample ID: 480-20559-9

Date Collected: 05/25/12 12:14 — **Matrix: Solid**
Date Received: 05/26/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66393	05/30/12 12:18	TR	TAL BUF
TCLP	Prep	7470A			66539	05/31/12 10:30	JM	TAL BUF
TCLP	Analysis	7470A		1	66614	05/31/12 15:00	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	66389	05/30/12 11:44	ZLR	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	Federal		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-20559-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-20559-1	BC-CSB-PDS-052512-076	Solid	05/25/12 10:10	05/26/12 09:00
480-20559-2	BC-CSB-PDS-052512-077	Solid	05/25/12 10:28	05/26/12 09:00
480-20559-3	BC-CSB-PDS-052512-078	Solid	05/25/12 10:34	05/26/12 09:00
480-20559-4	BC-CSB-PDS-052512-079	Solid	05/25/12 10:55	05/26/12 09:00
480-20559-5	BC-CSB-PDS-052512-080	Solid	05/25/12 11:04	05/26/12 09:00
480-20559-6	BC-CSB-PDS-052512-081	Solid	05/25/12 11:41	05/26/12 09:00
480-20559-7	BC-CSB-PDS-052512-082	Solid	05/25/12 12:03	05/26/12 09:00
480-20559-8	BC-CSB-PDS-052512-083	Solid	05/25/12 12:08	05/26/12 09:00
480-20559-9	BC-CSB-PDS-052512-084	Solid	05/25/12 12:14	05/26/12 09:00

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown + Caldwell	Project Manager: C. Trent	Date: 5-25-12	Chain of Custody Number: 228113
Address: 110 Commerce Drive	Telephone Number (Area Code)/Fax Number: 201-574-4700	Lab Number	Page 1 of 1
City: Allendale; State: NJ; Zip Code: 10740	Site Contact: F. Williams	Lab Contact	
Project Name and Location (State): MERECO, Colonie, N.Y	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Solid	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCLP Hg	Total Hg	Special Instructions/ Conditions of Receipt
BC-CSB-PDS-052512-076	052512	10:10												X	→	Hold Total Hg till TCLP Hg results are reported
BC-CSB-PDS-052512-077	↓	10:28												X		
BC-CSB-PDS-052512-078		10:34												X		
BC-CSB-PDS-052512-079		10:55												X		
BC-CSB-PDS-052512-080		11:04												X		
BC-CSB-PDS-052512-081		11:41												X		
BC-CSB-PDS-052512-082		12:03												X		
BC-CSB-PDS-052512-083		12:08												X		
BC-CSB-PDS-052512-084	↓	12:14					↓	↓						X		

Analysis (Attach list if more space is needed): Hold - SAMPLES

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☑ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: C. Trent	5/25/12	1513	1. Received By: [signature]	5/25/12	15:13
2. Relinquished By: [signature]	5/25/12	1700	2. Received By: [signature]	5-26-12	0800
3. Relinquished By			3. Received By		

Comments

3-2411

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-20559-1

Login Number: 20559
List Number: 1
Creator: May, Joel M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BROWN AND CALDWELL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix F: Boring and Monitoring Well Logs

BORING LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Boring No. ISS-DP-10 Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	3"	NA		68.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
6/26/12 - 6/26/12	Parratt-Wolff	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676522.6 ft.
J. Price	Dual tube Direct-push	6600 Geoprobe Rig	Vert Datum: NGVD 1929	Northing: 1406144.1 ft.
			Ground Surface Elev: 234.4 ft.	TOC Elev: NA ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log (Sample Int, Recovery, Lithology, Backfill)	MVA Readings (ppm)	Remarks
			CONCRETE Concrete slab. (0-1.2' bgs) Pulverized concrete.	--	1		0.000	*Borehole backfilled with cement/bentonite grout.*
		SP GP SP	**ANTHROPOGENIC FILL** Brown fmc SAND, little (+) fm Gravel. Dry.					
	230		**LAKE ALBANY SAND AND SILT** Brown/Orange f SAND, trace Silt, trace m Sand.	--	2		0.000	
5		SP SM	Brown/Orange f SAND, little (+) Silt. Damp to wet.					
				--	3		0.000	
	225	ML CL	Tan/Brown SILT and CLAY, trace f Sand. Moist to wet.					
10								
		SP SM	Tan/Brown Clayey SILT/SILT and CLAY, trace f Sand. Wet. Tan/Brown f SAND and SILT, trace (-) Clay. Wet.	--	4		0.000	
	220							
15								
		ML CL	Tan/Brown SILT and CLAY, little (-) f Sand. Wet to saturated.	--	5		0.000	
	215							
20		SP SM	Tan/Brown SILT and f SAND, little (+) Clay. Saturated.	--	6		0.000	
	210		Brown/Gray SILT and f SAND. Wet to saturated.	--	7		0.000	
25		ML CL	Brown/Gray SILT and CLAY, little (-) f Sand. Wet.					
	205	SP SM	Brown/Gray SILT and f SAND. Wet to saturated.	--	8		0.000	
30								

BORING LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Boring No.** ISS-DP-10 **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	MVA Readings (ppm)	Remarks
			Brown f SAND and SILT. Wet.	--	9		0.000	
	200							
35				--	10		0.000	
	195							
40				--	11		0.000	
	190		Brown SILT and f SAND, little (-) Clay. Saturated.	--	12		0.000	
45								
			Brown f SAND and SILT. Saturated.	--	13		0.000	
	185							
50			Brown SILT and f SAND, little (-) Clay. Saturated.					
				--	14		0.000	
	180							
55				--	15		0.000	
		ML CL	**LAKE ALBANY SILT AND CLAY** Brown SILT and CLAY, trace f Sand. Wet.					
	175	SP SM	Brown SILT and f SAND, little (+) Clay. Wet.	--	16		0.000	
60								
	170	CL	**LAKE ALBANY CLAY** Gray/Dk. Gray CLAY, trace (-) Silt. Plastic.	--	17		0.000	
65								

BORING LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Boring No. ISS-DP-11 Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	3"	NA		64.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
6/27/12 - 6/27/12	Parratt-Wolff	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676505.1 ft.
J. Price	Dual tube Direct-push	6600 Geoprobe Rig	Vert Datum: NGVD 1929	Northing: 1406151.8 ft.
			Ground Surface Elev: 234.4 ft.	TOC Elev: NA ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	MVA Readings (ppm)	Remarks
			CONCRETE Concrete slab (0-1.2' bgs). Pulverized concrete.	--	1		0.000	*Borehole backfilled with cement/bentonite grout.*
		SP GP	**ANTHROPOGENIC FILL** Brown fmc SAND, little (-) fm Gravel, trace Silt.					
	230	SP SM	**LAKE ALBANY SAND AND SILT** Brown/Tan/Orange fm SAND, trace (+) Silt.	--	2		0.000	
5		ML CL	Tan/Brown SILT and CLAY, trace f Sand. Moist to wet.					
		SP SM	Tan/Brown f SAND and SILT. Moist. Tan/Brown SILT and f SAND, little (+) Silty Clay. Wet.	--	3		0.000	
	225							
10				--	4		0.000	
	220		Tan/Brown SILT and f SAND, trace (-) Clay. Wet.					
15			Tan/Brown SILT and f SAND, little (+) Clay/Silty Clay. Wet to saturated.	--	5		0.000	
	215							
20			Tan/Brown f SAND and SILT, trace (+) Clay. Saturated.	--	6		0.000	
	210		Brown f SAND and SILT, trace (+) Clay. Saturated.	--	7		0.000	
25		ML CL	Brown SILT and CLAY, little f Sand. Saturated.	--	8		0.000	
	205	SP SM	Brown f SAND and SILT, trace (-) Clay. Saturated.					
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BORING LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Boring No.** ISS-DP-11 **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	MVA Readings (ppm)	Remarks
			Tan/Brown f SAND and SILT, trace (-) Clay. Saturated.	--	9		0.000	
	200							
35				--	10		0.000	
	195							
40				--	11		0.000	
	190			--	12		0.000	
45			Brown f SAND and SILT, trace (-) Clay. Saturated.					
				--	13		0.000	
	185							
50		ML CL	**LAKE ALBANY SILT AND CLAY** Brown SILT/Clayey SILT, trace (+) f Sand. Wet. Brown Silty CLAY/SILT and CLAY, trace f Sand. Wet.	--	14		0.000	
	180							
55				--	15		0.000	
		CL	**LAKE ALBANY CLAY** Gray/Dk. Gray CLAY, trace (-) Silt.					
	175							
60				--	16		0.000	

BORING LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Boring No.** ISS-DP-12 **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	3"	NA		63.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
6/28/12 - 6/28/12	Parratt-Wolff	**Hammer Type:** NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676486.2 ft.
J. Price	Dual tube Direct-push	6600 Geoprobe Rig	**Vert Datum:** NGVD 1929	**Northing:** 1406159.5 ft.
			Ground Surface Elev: 234.4 ft.	**TOC Elev:** NA ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	MVA Readings (ppm)	Remarks
			CONCRETE Concrete slab (0-1.25' bgs) Pulverized concrete.	--	1		0.000	*Borehole backfilled with cement/bentonite grout.*
		SP GP	**ANTHROPOGENIC FILL** Brown fmc SAND, little (+) fm Gravel.					
	230	SP SM	**LAKE ALBANY SAND AND SILT** Tan/Brown fm SAND, trace Silt.	--	2		0.000	
5			Tan/Brown f SAND, trace (+) Silt, trace m Sand. Moist to wet.					
				--	3		0.000	
	225							
10		ML CL	Tan/Brown/Gray SILT and CLAY, trace (-) f Sand. Wet.					
				--	4		0.000	
	220	SP SM	Tan/Brown/Gray f SAND, little Silt, trace Clay. Saturated.					
15								
				--	5		0.000	
	215							
20		SM SC	Tan/Brown SILT and f SAND, little Clay. Saturated.	--	6		0.000	
	210	SP SM	Tan/Brown f SAND and SILT, trace Clay. Saturated. Color change to Brown @ 29.8'.	--	7		0.000	
25								
				--	8		0.000	
	205							
30								

BORING LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Boring No.** ISS-DP-12 **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	MVA Readings (ppm)	Remarks
			Brown f SAND and SILT, trace (-) Clay. Saturated.	--	9		0.000	
	200							
35				--	10		0.000	
	195							
40				--	11		0.000	
	190			--	12		0.000	
45								
				--	13		0.000	
	185							
50								
				--	14		0.000	
	180							
55								
		SM SC	**LAKE ALBANY SILT AND CLAY** Brown SILT and f SAND, little (+) Clay (mostly in pockets). Saturated.	--	15		0.000	
	175							
60			Brown SILT and f SAND, some Clay. Saturated. Geoprobe refusal @ 63' BGS.	--	16		0.000	

BORING LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Boring No. ISS-DP-13 Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	3"	NA		68.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
6/25/12 - 6/26/12	Parratt-Wolff	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676514.2 ft.
J. Price	Dual tube Direct-push	6600 Geoprobe Rig	Vert Datum: NGVD 1929	Northing: 1406126.7 ft.
			Ground Surface Elev: 234.2 ft.	TOC Elev: NA ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log (Sample Int, Recovery, Lithology, Backfill)	MVA Readings (ppm)	Remarks
			CONCRETE Concrete slab (0-1.25' bgs) Concrete pieces.	--	1		0.000	*Borehole backfilled with cement/bentonite grout.*
		SP GP	**ANTHROPOGENIC FILL** Brown/Gray fmc SAND, little (-) fm Gravel, trace Silt.					
	230	SP SM	**LAKE ALBANY SAND AND SILT** Orange/Brown fm SAND, little (-) Silt. Color change to Red/Brown @ 3.25'.	--	2		0.000	
5		SM ML	Brown/Orange f SAND, little (+) Silt. Damp. Brown/Orange f SAND and SILT, trace (-) Clayey Silt. Moist.					
	225	ML CL	Brown/Orange SILT and f SAND. Moist. Brown/Orange Clayey SILT. Pockets of Silt throughout. Moist to wet.	--	3		0.000	
10		SM ML	Brown SILT, trace (-) f Sand, trace (-) Clay. Wet.	--	4		0.000	
	220							
15			Brown SILT, trace Clay, trace f Sand. Saturated.	--	5		0.000	
	215							
20			Brown SILT, trace Clay, trace f Sand. Saturated. Color change to Brown/Gray @ 23'.	--	6		0.000	
	210	ML CL	Gray SILT/Clayey SILT, trace (-) f Sand. Pockets of Clay throughout.	--	7		0.000	
25				--	8		0.000	
	205							
30								

BORING LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Boring No. ISS-DP-13 Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	MVA Readings (ppm)	Remarks
		ML	Brown SILT/Clayey SILT, trace (-) f Sand. Pockets of Clay throughout. Brown SILT, trace f Sand. Moist to wet.	--	9		0.000	
	200							
35		SM ML	Brown SILT and f SAND. Moist to wet.	--	10		0.000	
	195							
40			Brown SILT and f SAND. Moist to wet. Gradual color change to Brown/Gray.	--	11		0.000	
	190							
45			Brown/Gray SILT and f SAND. Moist to wet.	--	12		0.000	
	185		Brown/Gray SILT and f SAND.	--	13		0.000	
50		ML CL	**LAKE ALBANY SILT AND CLAY** Brown/Gray SILT and Clayey SILT, trace (-) f Sand. Moist to wet. Clay increasing with depth.	--	14		0.000	
	180							
55		CL ML	**LAKE ALBANY CLAY** Gray CLAY/Silty CLAY. Plastic.	--	15		0.000	
	175							
60		CL	Gray CLAY, trace Silty Clay. Plastic.	--	16		0.000	
	170		Gray/Dk. Gray CLAY, trace Silt. Plastic.	--	17		0.000	
65								

BORING LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Boring No. ISS-DP-14 Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	3"	NA		68.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
6/27/12 - 6/27/12	Parratt-Wolff	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676496.9 ft.
J. Price	Dual tube Direct-push	6600 Geoprobe Rig	Vert Datum: NGVD 1929	Northing: 1406134.2 ft.
			Ground Surface Elev: 234.2 ft.	TOC Elev: NA ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log (Sample Int, Recovery, Lithology, Backfill)	MVA Readings (ppm)	Remarks
			CONCRETE Concrete slab (0-1.25' bgs)	--	1		0.000	*Borehole backfilled with cement/bentonite grout.*
		SP GP	**ANTHROPOGENIC FILL** Brown/Gray fmc SAND, little (+) fm Gravel, trace Silt.					
	230	SP SM	**LAKE ALBANY SAND AND SILT** Brown/Tan fm SAND, trace Silt.	--	2		0.000	
5								
			Brown/Tan f SAND, little (-) Silt, trace m Sand. Wet.	--	3		0.000	
	225	ML CL	Tan/Brown SILT and CLAY. Wet.					
10				--	4		0.000	
	220	SP SM	Tan/Brown f SAND and SILT. Wet to saturated.					
15								
			Tan/Brown f SAND and SILT, trace Clay. Wet to saturated.	--	5		0.000	
	215							
20			Tan/Brown f SAND and SILT, trace Clay. Grading to Tan/Brown SILT and f SAND, trace Clay. Saturated.	--	6		0.000	
	210		Tan/Brown SILT and f SAND, trace Clay. Saturated. Color change to Brown at 25.5'.	--	7		0.000	
25								
	205		Brown f SAND and SILT, trace (-) Clay. Wet.	--	8		0.000	
30								

BORING LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Boring No.** ISS-DP-14 **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log (Sample Int / Recovery / Lithology / Backfill)	MVA Readings (ppm)	Remarks
				--	9		0.000	
	200							
35				--	10		0.000	
	195							
40				--	11		0.000	
	190			--	12		0.000	
45								
				--	13		0.000	
	185	ML CL	Brown SILT, little (+) Clay, trace f Sand. Wet to saturated.					
50								
		SP SM	Brown f SAND and SILT, trace Clay. Saturated.	--	14		0.000	
	180	ML CL	**LAKE ALBANY SILT AND CLAY** Brown SILT and CLAY (pockets of Clay), trace (+) f Sand. Saturated.					
55								
			Brown SILT and CLAY, trace f Sand. Wet.	--	15		0.000	
		CL	Gray/Dk. Gray CLAY, trace (-) Silt. Wet.					
	175							
60		CL ML	Gray CLAY and SILT. Wet.	--	16		0.000	
	170	CL	**LAKE ALBANY CLAY** Dk. Gray CLAY.	--	17		0.000	
65								

BORING LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Boring No. ISS-DP-15 Page 1 of 3

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	3"	NA		72.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
6/28/12 - 6/29/12	Parratt-Wolff	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676478.7 ft.
J. Price	Dual tube Direct-push	6600 Geoprobe Rig	Vert Datum: NGVD 1929	Northing: 1406140.9 ft.
			Ground Surface Elev: 234.1 ft.	TOC Elev: NA ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log (Sample Int, Recovery, Lithology, Backfill)	MVA Readings (ppm)	Remarks
			CONCRETE Concrete slab. (0-1.25' bgs) Pulverized concrete.	--	1		0.000	*Borehole backfilled with cement/bentonite grout.*
		SP GP	**ANTHROPOGENIC FILL** Brown/Gray fmc SAND, little (-) fm Gravel. Dry					
	230	SP SM	Tan/Brown fm SAND, trace Silt.	--	2		0.000	
5			Tan/Brown f SAND, little (-) Silt, trace m Sand. Wet.					
	225			--	3		0.000	
10		ML CL	Tan/Brown SILTand CLAY, little (-) f Sand. Wet.					
		CL ML	Tan/Brown CLAY and SILT, trace f Sand. Wet to saturated.	--	4		0.000	
	220							
15								
		ML CL	Tan/Brown SILT and CLAY, little f Sand. Wet.	--	5		0.000	
	215	SP SM	Tan/Brown SILT and f SAND, little Clay. Wet.					
20		SP SC	Tan/Brown SILT and f SAND, little Clay. Saturated. Clay content increasing with depth.	--	6		0.000	
	210			--	7		0.000	
25		SP SM	Brown f SAND and SILT, trace (+) Clay. Saturated.					
	205			--	8		0.000	
30								

BORING LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Boring No.** ISS-DP-15 **Page** 2 **of** 3

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	MVA Readings (ppm)	Remarks
			Brown f SAND, some Silt, trace (-) Clay. Wet.	--	9		0.000	
	200							
35				--	10		0.000	
	195							
40				--	11		0.000	
			Brown f SAND and SILT, trace (-) Clay. Wet.					
	190		Brown f SAND and SILT, little (-) Clay. Wet.	--	12		0.000	
45								
			Brown f SAND, some Silt, trace Clay. Saturated/	--	13		0.000	
	185							
50								
		SP SC	Brown/Gray SILT and f SAND, little (-) Clay (mostly in pockets). Saturated.	--	14		0.000	
	180							
55								
			Brown/Gray SILT and f SAND, little (+) Clay (mostly in pockets). Saturated.	--	15		0.000	
	175							
60				--	16		0.000	
		ML CL	**LAKE ALBANY SILT AND CLAY** Brown/Gray SILT& CLAY, trace f Sand. Wet.					
		ML	Brown/Gray SILT, little f Sand, little Clay. Wet.					
	170	ML CL	Brown/Gray SILT and CLAY, trace (+) f Sand. Wet.	--	17		0.000	
65		SP SC	Gray/Brown SILT and f SAND, little Clay. Wet.					
		CL	**LAKE ALBANY CLAY** Gray CLAY, trace (+) Silt. Wet.	--	18		0.000	
	165							

BORING LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Boring No. **ISS-DP-15** Page 3 of 3

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	MVA Readings (ppm)	Remarks

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** **MW-ISS-10D** **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	65.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: NA	Development Method:
8/2/12 - 8/7/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~75 gals.

Driller:	Drilling Method:	Drilling Equipment:		
M. Marshall	Drive and Wash	CME 75	**Horiz Datum/Proj:** NY State Plane NAD83 **Vert Datum:** NGVD 1929 **Ground Surface Elev:** 234.3 ft.	**Easting:** 676476.1 ft. **Northing:** 1406146.5 ft. **TOC Elev:** 233.9 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	MVA Readings (ppm)	Remarks
			Continuous sampling not conducted. Refer to ISS-DP-15 boring log for description of soil.						Traffic Rated Vault Box		*0-2' BGS: Concrete Pad* *2-43' BGS: Cement/bentonite grout.*
	230										
5											
	225										
10											
	220										
15											
	215										
20											
	210										
25											
	205										
30											

MONITORING WELL LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Well No. MW-ISS-10D Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	MVA Readings (ppm)	Remarks
	200										
35											
	195										
40											
	190										
45											
	185										
50											*51-53' BGS: Bentonite seal.*
											53-65' BGS: #00 Filter sand.
	180										
55											*55-65' BGS: 0.010" Pre-packed PVC screen.*
	175										
60											
	170										
65											

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** **MW-ISS-10I** **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	44.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: NA	Development Method:
8/2/12 - 8/2/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~30 gals

Driller:	Drilling Method:	Drilling Equipment:		
M. Marshall	Drive and Wash	CME 75	**Horiz Datum/Proj:** NY State Plane NAD83 **Vert Datum:** NGVD 1929 **Ground Surface Elev:** 234.3 ft.	**Easting:** 676473.4 ft. **Northing:** 1406147.6 ft. **TOC Elev:** 234.1 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well (Traffic Rated Vault Box)	MVA Readings (ppm)	Remarks
			Continuous sampling not conducted. Refer to ISS-DP-15 boring log for description of soil.								*0-2' BGS: Concrete Pad* *2-43' BGS: Cement/bentonite grout.*
	230										
5											
	225										
10											
	220										
15											
	215										
20											
	210										
25											
	205										
30											*30-32' BGS: Bentonite seal.*

MONITORING WELL LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Well No. MW-ISS-10I Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	MVA Readings (ppm)	Remarks
	200										*32-44' BGS: #00 Filter sand.*
35											*34-44' BGS: 0.010" Pre-packed PVC screen.*
	195										
40											

MONITORING WELL LOG

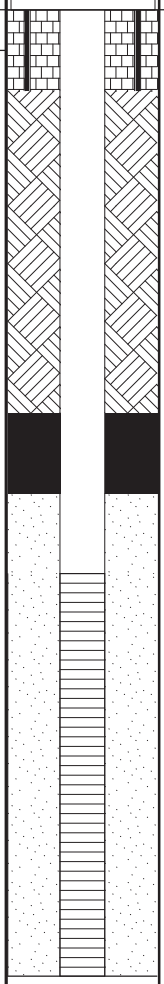
Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** **MW-ISS-10S** **Page** 1 **of** 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	24.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: NA	Development Method:
8/1/12 - 8/2/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~40 gals.

Driller:	Drilling Method:	Drilling Equipment:		
M. Marshall	Drive and Wash	CME 75	**Horiz Datum/Proj:** NY State Plane NAD83 **Vert Datum:** NGVD 1929 **Ground Surface Elev:** 234.3 ft.	**Easting:** 676470.0 ft. **Northing:** 1406148.6 ft. **TOC Elev:** 234.0 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	MVA Readings (ppm)	Remarks
			Continuous sampling not conducted. Refer to ISS-DP-15 boring log for description of soil.								*0-2' BGS: Concrete Pad* *2-10' BGS: Cement/bentonite grout.* *10-12' BGS: Bentonite seal.* *12-24' BGS: #00 Filter sand.* *14-24' BGS: 0.010" Pre-packed PVC screen.*
5	230										
10	225										
15	220										
20	215										



MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** MW-ISS-11D **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	65.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: NA	Development Method:
7/26/12 - 7/31/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~80 gals.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676505.8 ft.
M. Marshall	Drive and Wash	CME 75	Vert Datum: NGVD 1929	Northing: 1406129.5 ft.
			Ground Surface Elev: 234.2 ft.	TOC Elev: 233.8 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Well	MVA Readings (ppm)	Remarks
			Continuous sampling not conducted. Refer to ISS-DP-14 boring log for description of soil.						Traffic Rated Vault Box		*0-2' BGS: Concrete Pad* *2-43' BGS: Cement/bentonite grout.*
	230										
5											
	225										
10											
	220										
15											
	215										
20											
	210										
25											
	205										
30											

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** MW-ISS-11D **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	MVA Readings (ppm)	Remarks
	200										
35											
	195										
40											
	190										
45											
	185										
50											*51-53' BGS: Bentonite seal.*
											53-65' BGS: #00 Filter sand.
	180										
55											*55-65' BGS: 0.010" Pre-packed PVC screen.*
	175										
60											
	170										
65											

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** **MW-ISS-11I** **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	44.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: NA	Development Method:
7/31/12 - 7/31/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~100 gals.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676502.3 ft.
M. Marshall	Drive and Wash	CME 75	Vert Datum: NGVD 1929	Northing: 1406131.0 ft.
			Ground Surface Elev: 234.2 ft.	TOC Elev: 233.9 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Well	MVA Readings (ppm)	Remarks
			Continuous sampling not conducted. Refer to ISS-DP-14 boring log for description of soil.						Traffic Rated Vault Box		*0-2' BGS: Concrete Pad* *2-43' BGS: Cement/bentonite grout.*
	230										
5											
	225										
10											
	220										
15											
	215										
20											
	210										
25											
	205										
30											*30-32' BGS: Bentonite seal.*

MONITORING WELL LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Well No. MW-ISS-11I Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	MVA Readings (ppm)	Remarks
	200										*32-44' BGS: #00 Filter sand.*
35											*34-44' BGS: 0.010" Pre-packed PVC screen.*
	195										
40											

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** MW-ISS-11S **Page** 1 **of** 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	24.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: NA	Development Method:
8/1/12 - 8/1/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~35 gals.

Driller:	Drilling Method:	Drilling Equipment:		
M. Marshall	Drive and Wash	CME 75	**Horiz Datum/Proj:** NY State Plane NAD83 **Vert Datum:** NGVD 1929 **Ground Surface Elev:** 234.2 ft.	**Easting:** 676498.9 ft. **Northing:** 1406132.6 ft. **TOC Elev:** 233.9 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	MVA Readings (ppm)	Remarks
			Continuous sampling not conducted. Refer to ISS-DP-14 boring log for description of soil.								*0-2' BGS: Concrete Pad* *2-10' BGS: Cement/bentonite grout.* *10-12' BGS: Bentonite seal.* *12-24' BGS: #00 Filter sand.* *14-24' BGS: 0.010" Pre-packed PVC screen.*
5	230										
10	225										
15	220										
20	215										

Traffic Rated Vault Box

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** MW-ISS-12D **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CJM/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	68.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
8/8/12 - 8/10/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~100 gals.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676479.5 ft.
J. Price	Drive and Wash	CME 75	**Vert Datum:** NGVD 1929	**Northing:** 1406113.6 ft.
			Ground Surface Elev: 231.0 ft.	**TOC Elev:** 233.6 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	MVA Readings (ppm)	Remarks
	230	SP	**ANTHROPOGENIC FILL** Brown mf SAND (partially lithified, in small disks), little (+) Silt, trace Organics. Dry.	3-3-7-9	1		0.000	*0-2' BGS: Concrete Pad*
		SP	Tan/brown fm SAND (loose), trace Silt, trace Gravel. Dry.	12-14-13-10	2		0.000	*2-49' BGS: Cement/bentonite grout.*
		GW	Few pieces of GRAVEL.	1-2-3-4	3		0.004	
5		SP	Tan/brown fm SAND, little (-) f Gravel, very compact. Dry. Cinders noted in shoe.					
	225		No recovery.	2-2-2-2	4		0.000	
		SP	Tan/brown fm SAND, trace Cinders. Dry.	19-14-10-7	5		0.000	
		GW	White pulverized GRAVEL.					
10		GP	Gray mf Gravel and Tan/brown mf SAND, little (+) Silt. Wet.	11-7-5-3	6		0.000	
	220	SP						
		GP	Same as above.	1-1-1-1	7		0.000	
		SP						
		GP	Gray mf GRAVEL. Wet.	4-3-1-1	8		0.000	
15		SP	**LAKE ALBANY SAND AND SILT** Tan/brown fm SAND, little (+) Silt/Clayey Silt.					
	215	SP	Same as above w/ Gravel on top.	1-1-1-1	9		0.000	
		SP	Same as above w/ Gravel on top.	1-1-1-1	10		0.000	
20		SP	Tan/Brown fm SAND, trace Silt, trace Clay. Wet.	1-2-1-1	11		0.000	
	210							
		SP	Brown fm SAND, trace (+) Silt. Saturated.	2-2-2-2	12		0.000	
				3-2-1-1	13		0.009	
25	205							
		SP	Same as above w/ pocket of grey f Gravel (like seen above) @ 27.0'.	2-2-2-3	14		0.000	
		SP	Brown fm SAND, little Silt, trace gray f Gravel.	1-1-1-1	15		0.000	
30		SP	Same as above.	2-1-2-2	16		0.000	

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** MW-ISS-12D **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	MVA Readings (ppm)	Remarks
		SP	Grey f SAND, little (-) Silt. Wet.	1-1-1-1	17		0.000	
		SP	Same as above.	4-4-7-6	18		0.000	
35	195	SP	Same as above.	3-4-5-4	19		0.000	
		SP	Gray f SAND, little (+) Silt, trace Clay. Wet.	1-1-2-2	20		0.000	
40	190	SP	Same as above.	1-2-3-2	21		0.004	
		SP	Same as above.	2-3-3-3	22		0.000	
45	185	MH SP	Gray SILT and f SAND, trace Clay. Wet.	4-4-3-4	23		0.000	
		MH SP	Same as above.	2-3-3-4	24		0.000	
		MH SP	Same as above.	2-3-3-3	25		0.000	
50	180	MH	Gray SILT/Clayey SILT, little (+) f Sand. Wet.	2-3-4-3	26		0.000	*49-51' BGS: Bentonite seal.*
		MH SP	Gray SILT and f SAND, trace (-) Clay. Wet.					*51-63' BGS: #00 Filter sand.*
		SP	Gray f SAND, little (+) Silt. Wet.	2-2-2-3	27		0.000	
55	175	MH	**LAKE ALBANY SILT AND CLAY** Gray SILT/Clayey SILT, trace f Sand. Wet.	4-2-2-2	28		0.000	*53-63' BGS: 0.010" Pre-packed PVC screen.*
		MH	Same as above.	4-4-3-5	29		0.000	
		MH	Same as above. @ 59.5' Pockets of Silt.	7-6-5-3	30		0.000	
60	170	ML CL	Gray SILT and Clay (in pockets), trace (+) f Sand. Wet.	7-6-5-5	31		0.000	
		ML CL	Same as above.	1-2-2-2	32		0.000	
65	165	CL	**LAKE ALBANY CLAY** Gray CLAY, trace (-) Silt. Wet.	2-2-2-2	33		0.000	
		CL	Gray CLAY, little (-) Silt. Wet.	2-3-3-2	34		0.000	

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** **MW-ISS-12I** **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
BFT/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	42.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: NA	Development Method:
8/10/12 - 8/13/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~70 gals.

Driller:	Drilling Method:	Drilling Equipment:		
J. Price	Drive and Wash	CME 75	**Horiz Datum/Proj:** NY State Plane NAD83 **Vert Datum:** NGVD 1929 **Ground Surface Elev:** 231.0 ft.	**Easting:** 676477.1 ft. **Northing:** 1406114.5 ft. **TOC Elev:** 233.2 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well (Stick Up)	MVA Readings (ppm)	Remarks
	230		Continuous sampling not conducted. Refer to MW-ISS-12D boring log for description of soil.								*0-2' BGS: Concrete Pad*
											2-28' BGS: Cement/bentonite grout.
5	225										
10	220										
15	215										
20	210										
25	205										
											28-30' BGS: Bentonite seal.
30	200										*30-42' BGS: #00 Filter sand.*

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** MW-ISS-12I **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	MVA Readings (ppm)	Remarks
35	195										*32-42' BGS: 0.010" Pre-packed PVC screen.*
40	190										

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** MW-ISS-12S **Page** 1 **of** 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
BFT/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	22.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: NA	Development Method:
8/13/12 - 8/14/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~80 gals.

Driller:	Drilling Method:	Drilling Equipment:		
J. Price	Drive and Wash	CME 75	**Horiz Datum/Proj:** NY State Plane NAD83 **Vert Datum:** NGVD 1929 **Ground Surface Elev:** 231.0 ft.	**Easting:** 676481.9 ft. **Northing:** 1406112.7 ft. **TOC Elev:** 233.3 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well (Stick Up)	MVA Readings (ppm)	Remarks
	230		Continuous sampling not conducted. Refer to MW-ISS-12D boring log for description of soil.								*0-2' BGS: Concrete Pad*
											2-8' BGS: Cement/bentonite grout.
5	225										
											8-10' BGS: Bentonite seal.
10	220										*10-22' BGS: #00 Filter sand.*
											12-22' BGS: 0.010" Pre-packed PVC screen.
15	215										
20	210										

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** MW-ISS-13D **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
BFT/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	63.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
8/14/12 - 8/16/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~150 gals.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676499.6 ft.
J. Price	Drive and Wash	CME 75	Vert Datum: NGVD 1929	Northing: 1406105.0 ft.
			Ground Surface Elev: 230.9 ft.	TOC Elev: 232.9 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	MVA Readings (ppm)	Remarks
	230	SP	**ANTHROPOGENIC FILL** Brown mf SAND, little (+) Silt, trace Organics, trace (-) f Gravel. Dry.	2-4-4-4	1		0.000	*0-2' BGS: Concrete Pad* *2-49' BGS: Cement/bentonite grout.*
5	225	SP	Brown mf SAND, little (+) Organics (roots), trace Silt. Dry.	1-2-2-2	2		0.000	
10	220		No Recovery.	5-1-2-2	3		0.000	
15	215		No Recovery.	4-2-1-1	4		0.000	
20	210	ML SP	**LAKE ALBANY SAND AND SILT** Brown Clayey SILT and cmf SAND. Saturated.	1-3-4-1	5		0.000	
25	205	SP	Brown mf SAND, trace Silt. Saturated.	4-4-3-3	6		0.000	
30	200	SP	Same as above	4-3-2-3	7		0.000	

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** MW-ISS-13D **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	MVA Readings (ppm)	Remarks
35	195	SP	Brown mf SAND. Saturated.	3-3-4-6	8		0.000	
40	190	SP	Brown mf SAND, little (+) Silt. Saturated.	2-2-2-2	9		0.000	
45	185	SP	Brown f SAND, trace Silt. Saturated.	7-5-5-4	10		0.000	
50	180	SP	Brown f SAND, little Clayey Silt. Saturated.	9-5-5-5	11		0.000	*49-51' BGS: Bentonite seal.* *51-63' BGS: #00 Filter sand.* *53-63' BGS: 0.010" Pre-packed PVC screen.*
55	175	ML	**LAKE ALBANY SILT AND CLAY** Brown SILT/Clayey SILT, little f Sand. Saturated.	12-10-5-5	12		0.000	
		ML	Same as above.	2-4-4-6	13		0.000	
		CL	Grey Silty CLAY w/ Silt in pockets throuhgout, trace (-) f Sand. Wet.	5-4-4-5	14		0.000	
60	170	CL	Same as above.					
		CL	Same as above.	4-5-5-5	15		0.000	
		CL	**LAKE ALBANY CLAY** Grey CLAY, trace (+) Silt. Wet.					

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** **MW-ISS-13I** **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
BFT/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	42.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: NA	Development Method:
8/16/12 - 8/17/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~80 gals.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NY State Plane NAD83	Easting: 676497.8 ft.
J. Price	Drive and Wash	CME 75	Vert Datum: NGVD 1929	Northing: 1406105.3 ft.
			Ground Surface Elev: 230.9 ft.	TOC Elev: 232.8 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Well (Stick Up)	MVA Readings (ppm)	Remarks
	230		Continuous sampling not conducted. Refer to MW-ISS-13D boring log for description of soil.								*0-2' BGS: Concrete Pad*
											2-28' BGS: Cement/bentonite grout.
5	225										
10	220										
15	215										
20	210										
25	205										*28-30' BGS: Bentonite seal.*
30	200										*30-42' BGS: #00 Filter sand.*

MONITORING WELL LOG

Brown AND Caldwell	Project Name: Mercury Refining Project Number: 142324.300.002.6028 Project Location: Colonie, NY	Permit Number: NA	Well No. MW-ISS-13I Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	MVA Readings (ppm)	Remarks
35	195										*32-42' BGS: 0.010" Pre-packed PVC screen.*
40	190										

MONITORING WELL LOG

Brown AND Caldwell	**Project Name:** Mercury Refining **Project Number:** 142324.300.002.6028 **Project Location:** Colonie, NY	**Permit Number:** NA	**Well No.** **MW-ISS-13S** **Page** 1 **of** 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
BFT/Allendale, NJ	CAS/FJW	4.25"	2" Pre-Pack PVC	0.010"	22.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: NA	Development Method:
8/17/12 - 8/20/12	Parratt-Wolff	**Hammer Type:** 300 lb Manual	Surge and purge w/ whale pump. Volume purged = ~80 gals.

Driller:	Drilling Method:	Drilling Equipment:		
J. Price	Drive and Wash	CME 75	**Horiz Datum/Proj:** NY State Plane NAD83 **Vert Datum:** NGVD 1929 **Ground Surface Elev:** 230.9 ft.	**Easting:** 676501.9 ft. **Northing:** 1406103.3 ft. **TOC Elev:** 232.9 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	MVA Readings (ppm)	Remarks
	230		Continuous sampling not conducted. Refer to MW-ISS-13D boring log for description of soil.								*0-2' BGS: Concrete Pad*
											2-8' BGS: Cement/bentonite grout.
5	225										
											8-10' BGS: Bentonite seal.
10	220										*10-22' BGS: #00 Filter sand.*
											12-22' BGS: 0.010" Pre-packed PVC screen.
15	215										
20	210										

Stick Up

Appendix G: Field Data Sheets

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-10S
Sample I.D.: (if different from well no.)

Project: MERECO
Personnel: BFT / ASG

Date: 9/12 Time: 1309
Weather: Sunny Air Temp.: 80

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: ____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 13.7 ft Bottom of Well: ____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: ____ To be purged: ____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: ____ Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: ____

Pumping Rate: 180 ml/min Elapsed Time: 30 min Volume Pumped: ~2 gallon
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: ____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☑ Yes ☐ No Method: ____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: ____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.14 Meter Model: Horiba U-22 Meter S/N: ____
Temperature: 18.9 Spec. Cond.: 40.5 Meter Model: ____ Meter S/N: ____
ORP: 162 DO: 4.10 Turbidity: 45.9
DUP : ☑ No ☐ Yes Name: ____
MS/MSD : ☑ No ☐ Yes Name: ____
Field Lab Results: ☑ N/A pH: ____ DO: ____ Temperature: ____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: ____ Date: 9/12/12

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BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: MERECO
Personnel: BFT / ASG
Purge/Sample Depth: 16 ft

Project Number:
Well ID: 10-S
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1309	6.55	19.6	149	47.3	9.65	194.0	14.04	220	
1312	6.38	19.0	132	44.8	6.28	147.0	14.00	200	
1315	6.28	19.5	132	43.9	5.53	95.6	13.95	180	
1318	6.22	18.7	136	44.1	5.30	76.1	13.97	180	
1321	6.19	18.5	141	42.9	4.81	61.8	13.96	180	
1324	6.17	18.5	145	42.6	4.56	68.5			
1327	6.16	18.5	149	42.5	4.36	58.9			
1330	6.15	18.4	152	42.8	4.29	56.4			
1333	6.14	18.4	156	41.9	4.17	52.7			
1336	6.14	18.5	159	41.4	4.08	48.2			
1339	6.14	18.4	162	40.5	4.10	45.9	13.97	180	
1345	Collect Sample								
		Turbidity Meter							
			Unfiltered	13.5	NTU				
			Filtered	2.15	NTU				

9/12/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW 11S
Sample I.D.: (if different from well no.)

Project: MERECO
Personnel: BFT / ASG

Date: 9/12 Time: 1038
Weather: Sunny Air Temp.: 70

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 13.66 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____ Tubing/Rope: ☐ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 150 ml/min Elapsed Time: 30 min Volume Pumped: ~1.5 gallon
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☑ Yes ☐ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.18 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 17.8 Spec. Cond.: 28.6 Meter Model: _____ Meter S/N: _____
ORP: 138 DO: 6.25 Turbidity: 0.0
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 9/12/12

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BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: MERECO
Personnel: BFT / ASG
Purge/Sample Depth: 15

Project Number:
Well ID: 11-S
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond (mS/m)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1038 ~~1040~~	7.24	17.3	73	39.7	10.94	6.9	14.05	300	Watch Slow
1041	6.70	17.2	89	36.9	8.71	2.1	13.92	150	
1044	6.46	17.3	104	34.4	8.19	1.2	13.91	150	
1047	6.32	17.3	114	32.2	7.91	0.2			
1050	6.25	17.3	121	31.2	7.72	0.3			
1053	6.22	17.3	127	29.8	7.46	0.0			
1056	6.21	17.3	129	29.2	7.41	0.0	13.91		
1059	6.19	17.3	132	28.4	7.23	0.0			
1102	6.18	17.4	135	28.4	7.12	0.0			
1105	6.18	17.6	137	28.8	6.92	0.0			
1108	6.18	17.8	138	28.6	6.75	0.0			
1111	Collect Sample								

Turbidity Meter

Unfiltered 1.53 NTU

Filtered 2.15 NTU

5/12/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-10D
Sample I.D.: (if different from well no.)

Project: MERECO
Personnel: BFT ASG

Date: 5/12/12 Time: 0528
Weather: Sunny Air Temp.: 65°

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other:
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 14.71 ft Bottom of Well: ____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: ____ To be purged: ____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: ____
Tubing/Rope: ☐ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: ____

Pumping Rate: 130 ml/min Elapsed Time: 36 min Volume Pumped: ~1.5 gallon
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: ____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☑ Yes ☐ No Method: ____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: ____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 7.84 Meter Model: Horiba U-22 Meter S/N: ____
Temperature: 16.9 Spec. Cond.: 34.7 Meter Model: ____ Meter S/N: ____
ORP: -125 DO: 4.64 Turbidity: 30.8
DUP : ☑ No ☐ Yes Name: ____
MS/MSD : ☑ No ☐ Yes Name: ____
Field Lab Results: ☑ N/A pH: ____ DO: ____ Temperature: ____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: ____ Date: 5/12/12

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BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: MERECO
Personnel: BFT / ASG
Purge/Sample Depth: 56

Project Number:
Well ID: 10-D
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond (mS/m)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
0928	7.71	16.8	83	33.4	4.99	37.5	15.10	210	
0931	7.79	16.0	38	33.3	8.08	41.2	14.98	130	
0934	7.80	16.3	-18	33.0	7.37	37.4	14.93	130	
0937	7.81	16.3	-56	33.0	7.04	33.8	14.93	130	
0940	7.80	16.5	-75	33.0	6.69	31.2			
0943	7.81	16.4	-89	33.3	6.41	33.3			
0946	7.82	16.4	-99	33.7	6.14	34.3			
0949	7.81	16.4	-104	34.0	5.87	31.1			
0952	7.83	16.4	-111	34.5	5.64	30.4			
0955	7.82	16.4	-116	34.6	5.41	32.0			
0958	7.82	16.7	-119	34.8	5.07	29.9			
1001	7.83	16.9	-122	34.6	4.86	28.6			
1004	7.84	16.9	-125	34.7	4.64	30.8			
1007	Collect Sample								
		Turbidity Meter							
				Unfiltered	10.56	NTU			
				Filtered	3.65	NTU			

9/12/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-11D
Sample I.D.: (if different from well no.)

Project: Merco
Personnel: BFT ASG

Date: 9/12/12 Time: 0730
Weather: Sunny Air Temp.: 60°

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: ____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 13.42 ft Bottom of Well: ____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: ____ To be purged: ____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: ____
Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: ____

Pumping Rate: 110 Elapsed Time: 63 min Volume Pumped: ~2 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: ____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☑ Yes ☐ No Method: ____
APPEARANCE: ☑ Clear ☑ Turbid ☐ Color: ____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 7.85 Meter Model: Horiba U-22 Meter S/N: ____
Temperature: 14.8 Spec. Cond.: 27.5 Meter Model: ____ Meter S/N: ____
ORP: -116 DO: 0.00 Turbidity: 223
DUP : ☑ No ☐ Yes Name: ____
MS/MSD : ☑ No ☐ Yes Name: ____
Field Lab Results: ☑ N/A pH: ____ DO: ____ Temperature: ____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: ____ Date: 9/12/12

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BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: MERECO
Personnel: BFT ASG
Purge/Sample Depth: 58

Project Number:
Well ID: 11-D
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond (mS/m)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
0730	5.84	14.4	172	33.0	5.59	172.0	14.60	220	
0733	6.29	14.1	117	35.7	4.66	281.0	14.78	150	
0736	6.62	14.3	59	29.5	3.87	254.0	15.00	110	
0739	6.83	14.4	30	28.4	3.56	221.0	15.10	110	
0742	7.01	14.4	4	28.0	3.25	211.0	15.25	110	
0745	7.16	14.4	-12	27.6	2.75	165.0	~~14.45~~	110	DTW = 15.46 ft
0748	7.27	14.4	-23	27.3	2.35	134.0	15.61	110	
0751	7.35	14.5	-34	27.3	2.10	130.0	15.75	110	
0754	7.44	14.5	-41	27.1	1.70	130.0			
0757	7.52	14.5	-52	27.1	1.37	130.0	15.87	110	
0800	7.59	14.6	-63	27.2	1.24	148.0	15.96	110	
0803	7.65	14.6	-70	27.3	1.06	137.0	16.03	110	
0807	7.69	14.7	-83	27.2	0.94	150.0	16.11	110	
0810	7.73	14.6	-90	27.1	0.72	178.0	16.13	110	
0813	7.76	14.7	-94	27.0	0.41	166.0	16.16	110	
0816	7.79	14.7	-98	27.0	0.26	196.0	16.19	110	
0819	7.81	14.8	-101	27.0	0.42	185.0	16.20	110	
0822	7.83	14.8	-105	27.6	0.36	206.0	16.20	110	
0825	7.84	14.8	-109	27.5	0.20	212.0	16.21	110	
0828	7.86	14.8	-112	27.6	0.12	209.0	16.24	110	
0831	7.87	14.8	-114	27.4	0.01	201.0	16.28	110	
0833	7.88	14.8	-116	27.5	0.00	223.0	16.26	110	
0836	Collect Sample								
		Turbidity meter							
				Unfiltered	38.0	NTU			
				Filtered	49.6	NTU			

5/2/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-10I
Sample I.D.: (if different from well no.)

Project: Merco
Personnel: BFT ASG

Date: 5/11/12 Time: 1505
Weather: Sunny Air Temp.: 80°

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☐ Steel ☐ PVC ☐ Teflon® ☐ Other: ____
Intake Diameter: 3" ☐ Stainless Steel ☐ Galv. Steel ☐ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 14.41 ft Bottom of Well: ____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☐ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: ____ To be purged: ____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: ____
Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: ____

Pumping Rate: 400 ml/min Elapsed Time: 30 min Volume Pumped: 4 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: ____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☑ Yes ☐ No Method: ____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: ____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 8.36 Meter Model: Horiba U-22 Meter S/N: ____
Temperature: 14.7 Spec. Cond.: 52.7 Meter Model: ____ Meter S/N: ____
ORP: 92 DO: 1.39 Turbidity: 14.2
DUP : ☑ No ☐ Yes Name: ____
MS/MSD : ☑ No ☐ Yes Name: ____
Field Lab Results: ☑ N/A pH: ____ DO: ____ Temperature: ____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: ____ Date: 5/11/12

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BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Merco
Personnel: BFT ASL
Purge/Sample Depth: 37'

Project Number:
Well ID: MW-10E
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond (~~mS/cm~~ mS/m)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1505	9.52	17.7	109	5.20	3.83	37.6	14.51	400	
1508	8.98	15.6	118	53.2	2.53	82.1	14.52		
1511	8.74	15.2	117	52.7	3.24	71.6	14.50		
1514	8.62	14.9	114	51.8	2.97	45.3			
1517	8.52	14.8	111	51.7	2.56	39.3			
1520	8.47	14.7	107	52.3	2.30	28.9			
1523	8.44	14.6	103	52.5	2.05	22.4	14.55		
1526	8.40	14.6	100	52.6	1.79	18.4			
1529	8.39	14.7	96	52.4	1.54	16.5			
1532	8.37	14.8	91	52.6	1.42	14.4			
1535	8.36	14.7	92	52.7	1.39	14.2			
1540	Sample Collected								
		Turbidity meter							
		Filter			1.57 NTU				
		Unfiltered			14.8 NTU				

4/11/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-11 I
Sample I.D.: (if different from well no.)

Project: MERECO
Personnel: BFT AJG

Date: 8/11/12 Time: 1408
Weather: Sunny Air Temp.: 80°

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: ____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 14.31 ft Bottom of Well: ____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: ____ To be purged: ____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: ____
Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: ____

Pumping Rate: 400 ml/min Elapsed Time: 30 min Volume Pumped: 4 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: ____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☑ Yes ☐ No Method: ____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: ____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 8.07 Meter Model: Horiba U-22 Meter S/N: ____
Temperature: 14.3 Spec. Cond.: .083 Meter Model: ____ Meter S/N: ____
ORP: -21 DO: 0.00 Turbidity: 20.2
DUP : ☑ No ☐ Yes Name: ____
MS/MSD : ☑ No ☐ Yes Name: ____
Field Lab Results: ☑ N/A pH: ____ DO: ____ Temperature: ____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: ____ Date: 8/11/12

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BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: MERECO
Personnel: BFT/ASG
Purge/Sample Depth: 36.0

Project Number:
Well ID: 11-I
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1408	8.29	12.0	99	94.0	4.66	51.7	14.37	400	
1411	7.85	15.0	93	0.15	2.03	44.7	14.36	400	
1414	7.69	14.5	65	0.19	1.04	37.8			
1417	7.78	14.5	48	0.10	0.72	34.8			
1420	7.83	14.5	25	0.10	0.60	35.6			
1423	7.90	14.5	9	0.09	0.00	30.4			
1426	7.94	14.4	3	0.09	0.01	33.3			
1429	7.97	14.4	-4	0.09	0.00	24.5			
1432	7.98	14.4	-8	0.09	0.00	27.5			
1435	8.06	14.4	-16	.0832	0.00	20.2	14.38		
1438	8.07	14.3	-21	.083	0.00	20.2			
1445	Collect	Sample							
		Turbidity Meter							
				Unfiltered		9.11 NTU			
				Filtered		3.99 NTU			

9/11/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-1SS-12S
Sample I.D.: (if different from well no.)

Project: Marcco
Personnel: BFT ASG

Date: 9/11/12 Time: 1152
Weather: Sunny Air Temp.: 70°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 13.55 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200 Elapsed Time: 30 min Volume Pumped: 2 gallon
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☑ Yes ☐ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.45 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 17.6 Spec. Cond.: 32.2 Meter Model: _____ Meter S/N: _____
ORP: 153 DO: 4.23 Turbidity: 0.0
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 9/11/12

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BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Merco
Personnel: BFT AJC
Purge/Sample Depth: 17'

Project Number:
Well ID: MW-12S
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond (mS/m)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1152	7.05	17.6	96	55.1	10.86	0.3	14.18	200	
1155	6.63	17.8	120	49.4	7.82	0.0	14.18		
1158	6.53	17.8	131	45.7	6.93	0.0			
1201	6.46	17.7	139	39.4	6.07	0.0			
1204	6.44	17.7	144	36.3	5.81	0.0			
1207	6.43	17.7	147	35.1	5.54	0.0			
1210	6.42	17.7	149	34.3	5.26	0.0			
1213	6.43	17.7	151	33.7	4.97	0.0			
1216	6.44	17.7	152	32.8	4.83	0.0			
1219	6.45	17.7	153	32.4	4.39	0.0	14.18		
1222	6.45	17.6	153	32.2	4.23	0.0			
1225	Sample Collected								

Turbidity Meter
Unfiltered 1.53 NTU
Filtered 1.13 NTU

9/11/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-13S
Sample I.D.: (if different from well no.)

Project: MERECO
Personnel: BFT ASG

Date: 9/11/12 Time: 0948
Weather: Sunny Air Temp.: 60

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 13.64 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 210/100/150 ml/min Elapsed Time: 30 min Volume Pumped: ~2 gallon
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☑ Yes ☐ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.90 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 16.0 Spec. Cond.: 26.2 Meter Model: _____ Meter S/N: _____
ORP: 88 DO: 4.96 Turbidity: 9.4
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☐ No ☐ Yes Name: _____
Field Lab Results: ☐N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: [signature] Date: 9/11/12

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BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: MERECO
Personnel: BFT/ASG
Purge/Sample Depth: 16.0

Project Number:
Well ID: MW-135
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
0948	7.80	16.3	50	33.8	2.57	10.2	13.86	210	
0951	7.41	16.3	56	34.8	5.69	9.4	13.67	100	
0954	7.18	15.9	71	30.9	5.76	9.2	13.76	150	
0957	7.06	16.1	76	29.1	5.56	9.5	13.76	150	
1000	6.99	16.1	80	28.3	5.51	9.2	13.74	150	
1003	6.95	16.1	83	27.5	5.44	9.4			
1006	6.92	16.1	83	26.4	5.31	9.3			
1009	6.91	16.0	86	26.4	5.20	9.3			
1012	6.90	16.0	87	26.4	5.09	9.3			
1015	6.90	16.0	88	26.2	4.96	9.4			
1020	Collect Sample								
		Turbidity Meter		Unfiltered	2.09				
				Filtered	2.50				

9/14/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: ISS- MW - 13I

Sample I.D.: (if different from well no.)

Project: Merco

Personnel: BFT ASG

Date: 9/10/12 Time: 1146

Weather: Sunny Air Temp.: 65°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☐ Steel ☐ PVC ☐ Teflon® ☐ Other: _____

Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☐ PVC ☐ Teflon® ☐ Open rock

DEPTH TO : Static Water Level: 13.69 ft Bottom of Well: _____ ft

DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:

CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☐ Yes ☐ No

Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No

Does Weep Hole adequately drain well head? ☑ Yes ☐ No

Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No

Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No

Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No

VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____

Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 230 Elapsed Time: 30 min Volume Pumped: ~2 gall

Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____

PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel

Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

Metals samples field filtered? ☑ Yes ☐ No Method: _____

APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid

FIELD DETERMINATIONS: pH: 7.06 Meter Model: Horiba U-22 Meter S/N: _____

Temperature: 17.9 Spec. Cond.: 0.592 Meter Model: _____ Meter S/N: _____

ORP: 25 DO: 0.005 Turbidity: 0.0

DUP : ☑ No ☐ Yes Name: _____

MS/MSD : ☑ No ☐ Yes Name: _____

Field Lab Results: ☐ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 9/10/12

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BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Merco
Personnel: BFT ASL
Purge/Sample Depth: 38'

Project Number:
Well ID: DU-MW-13E
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1146	7.35	16.0	153	0.995	2.71	11.7	~~230~~	~~13.71~~	
1149	7.00	15.1	127	0.992	0.77	46.5	13.71	230	
1152	6.97	14.8	101	0.991	0.37	48.2			
1155	6.97	14.9	94	0.970	0.16	46.5			
1158	6.99	14.8	66	0.802	0.17	56.3			
1201	7.00	14.9	57	0.780	0.15	49.3			
1204	7.01	14.8	45	0.740	0.11	36.5			
1207	7.02	14.9	40	0.642	0.06	30.2			
1210	7.04	14.8	31	0.616	0.05	21.7	13.71		
1213	7.05	14.8	27	0.592	0.05	16.7			
1216	7.06	14.9	25	0.592	0.05	0.0			
1220	Sample Collected								

Turbidity Meter
Unfiltered 3.46 NTU
Filtered 1.72 NTU

9/10/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-12I
Sample I.D.: (if different from well no.)

Project: Merck
Personnel: BFT ASG

Date: 9/10/12 Time: 1330
Weather: Sunny Air Temp.: 70°

WELL DATA:

Casing Diameter: 4" ☑ Stainless Steel ☐ Steel ☐ PVC ☐ Teflon® ☐ Other: ____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 13.98 ft Bottom of Well: ____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☐ Yes ☑ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: ____ To be purged: ____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: ____ Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: ____

Pumping Rate: 250 Elapsed Time: 42 min Volume Pumped: ~3 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: ____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☐ No Method: ____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: ____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 7.38 Meter Model: Horiba U-22 Meter S/N: ____
Temperature: 19.8 Spec. Cond.: 2.0.4 Meter Model: ____ Meter S/N: ____
ORP: -19 DO: .10 Turbidity: 0.1
DUP : ☐ No ☑ Yes Name: DUP-091012
MS/MSD : ☑ No ☐ Yes Name: ____
Field Lab Results: ☑ N/A pH: ____ DO: ____ Temperature: ____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols:
Signature: ____ Date: 9/11/12

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BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: MERECO
Personnel: BFT / ASG
Purge/Sample Depth: 60ft

Project Number:
Well ID: MW-12I
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond (mS/m)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1330	8.20	18.3	62	50.2	5.66	55.7	14.10	280	
1333	8.06	15.6	49	66.9	1.35	46.3	14.04	250	
1336	7.92	15.3	18	68.3	.67	34.8			
1339	7.84	15.0	-3	57.5	.50	45.6			
1342	7.75	15.1	-7	44.7	.42	35.5			
1345	7.67	15.6	3	44.4	.36	29.9			
1348	7.62	15.2	-9	42.0	.31	22.2			
1351	7.57	14.9	-16	41.7	.29	14.7			
1354	7.54	14.8	-19	41.8	.23	15.6			
1357	7.50	14.8	-22	41.8	.19	10.7			
1400	7.45	14.9	106	41.7	.18	8.1			
1403	7.40	14.8	87	40.8	.14	5.8			
1406	7.40	14.8	6	40.5	.12	3.2			
1409	7.39	14.8	-10	40.9	.12	2.0			
1412	7.38	14.8	-19	40.4	.10	0.1			
1415	Sample collected								
	Turbidity Meter			Unfiltered	Filtered		Filtered		
				6.64	NTU		0.80 NTU		

5/9/17

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-13D
Sample I.D.: (if different from well no.)

Project: Merco
Personnel: BFT ASC

Date: 5/10/12 Time: 1440
Weather: Sunny Air Temp.: 70°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 14.17 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 100 ml/min Elapsed Time: 87 min Volume Pumped: ~2 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☑ Yes ☐ No Method: _____
APPEARANCE: ☐ Clear ☑ Turbid ☐ Color: Gray ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 7.83 Meter Model: _____ Meter S/N: _____
Temperature: 15.9 Spec. Cond.: 24.7 Meter Model: _____ Meter S/N: _____
ORP: 4 DO: 5.63 Turbidity: 379
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/10/12

P:\Office\Field_Lab\Field_Data_Sheets\WW_Info_Sheet.doc

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: MERECO
Personnel: BFT ASG
Purge/Sample Depth: 60'

Project Number:
Well ID: ~~13B~~ 13D
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1443	7.86	15.9	-35	44.0	7.49	272	14.59	200	
1447	7.87	15.4	-99	28.6	2.98	301	14.61	100	
1450	7.84	15.9	-87	27.6	7.09	286	14.60		
1453	7.81	16.3	-73	27.5	7.00	325			
1457	7.71	16.5	-63	27.3	6.84	379			
1500	7.76	16.5	-58	27.2	6.74	400			
1503	Clean out Horiba								
1506	7.78	16.2	-42	27.2	7.60	526			
1509	7.74	16.6	-39	26.7	9.57	554			
1512	7.73	16.6	-32	26.5	9.91	534			
1515	7.71	16.6	-26	26.4	9.89	511			
1518	7.70	16.8	-20	26.1	9.79	493			
1521	7.69	16.8	-18	26.0	9.76	472			
1524	7.68	16.5	-13	25.8	9.84	454			
1527	7.68	16.5	-12	25.6	9.86	455			
1530	7.68	16.3	-9	25.3	9.85	425			
1537	7.75	17.0	-4	25.1	9.39	642			
1540	7.76	16.4	-4	25.1	9.89	362			
1543	7.77	16.2	-4	24.8	10.19	366			
1550	7.78	16.0	-3	24.2	10.96	370			
1553	7.79	15.9	-3	24.1	10.70	362			
1557	7.80	15.8	-0	23.8	10.80	377			
1604	7.83	15.8	4	24.9	9.71	371			
1610	7.83	15.9	4	24.7	9.63	379			
1615	Collect sample								
		Turbidity Meter			Unfiltered				
					Filtered 59 NTU				
					Unfiltered 251 NTU				

9/10/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: 12D
Sample I.D.: (if different from well no.)

Project: Merco
Personnel: BFT ASL

Date: 9/11/12 Time: 0742
Weather: Sunny Air Temp.: 50°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: ____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO: Static Water Level: 14.75 ft Bottom of Well: ____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: ____ To be purged: ____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: ____ Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: ____

Pumping Rate: 300/200 ml/min Elapsed Time: 36 Volume Pumped: ~2 gallon
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: ____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: ____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☑ Yes ☐ No Method: ____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: ____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 8.48 Meter Model: Horiba-22 Meter S/N: ____
Temperature: 14.4 Spec. Cond.: 33.8 Meter Model: ____ Meter S/N: ____
ORP: -119 DO: 0.00 Turbidity: 49.6
DUP: ☑ No ☐ Yes Name: ____
MS/MSD: ☐ No ☑ Yes Name: MA-GW-MW-ISS-12D MS/MSD
Field Lab Results: ☐ N/A pH: ____ DO: ____ Temperature: ____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: [signature] Date: 9/11/12

P:\Office\Field_Lab\Field_Data_Sheets\Well_Info_Sheet.doc

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Marco
Personnel: BFT AJL
Purge/Sample Depth:

Project Number:
Well ID: 10D
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond (mS/m)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
0742	7.29	14.5	143	40.1	2.67	528.0	15.13	300	
0745	7.61	14.4	94	59.8	0.00	94.7	15.28		
0748	7.80	14.4	41	52.8	0.00	67.0	15.30	200	
0751	7.98	14.5	0	41.7	0.00	50.5	15.25		
0754	8.13	14.5	-33	38.8	0.00	54.6			
0757	8.23	14.5	-51	37.9	0.00	51.4			
0800	8.29	14.5	-69	37.7	0.00	52.6			
0803	8.32	14.5	-79	36.8	0.00	56.0			
0806	8.38	14.5	-86	35.8	0.00	56.7			
0809	8.43	14.5	-97	35.1	0.00	54.8			
0812	8.48	14.5	-109	34.4	0.00	48.1			
0815	8.47	14.5	-114	34.1	0.00	46.1			
0818	8.48	14.4	-119	33.8	0.00	49.6			
0820	Sample collected								

Turbidity Meter

Filtered 3.4 NTU
Unfiltered 14.5 NTU

9/11/12

Appendix H: Full Laboratory Data Deliverable Packages (CD-ROM)

ANALYTICAL REPORT

Job Number: 480-21773-1

Job Description: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, NJ 07401

Attention: Ms. Carolyn A Spinapolice

Approved for release.
Joe Giacomazza
Project Administrator
7/5/2012 2:55 PM

Designee for
Brian Fischer
Project Manager II
brian.fischer@testamericainc.com
07/05/2012

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Job Narrative
480-21773-1

Receipt
The samples were received on 6/26/2012 9:00 AM and 6/27/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.0º C, 3.0º C, 3.0º C and 3.0º C.

Metals
Method 7471A: The following sample was diluted due to the abundance of the target analyte total mercury: MR-SB-1SS-DP-13-1.5-2 (480-21773-1), MR-SB-1SS-DP-13-12-12.5 (480-21773-2). Elevated reporting limits (RLs) are provided.

Method 7471A: The following sample was diluted due to the abundance of the target analyte total mercury: MR-SB-1SS-DP-10-1.5-2 (480-21847-6). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-21773-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-21773-1	MR-SB-1SS-DP-13-1.5-2	Solid	06/25/2012 1500	06/26/2012 0900
480-21773-2	MR-SB-1SS-DP-13-12-12.5	Solid	06/25/2012 1520	06/26/2012 0900
480-21773-3	MR-SB-1SS-DP-13-23.5-24	Solid	06/25/2012 1605	06/26/2012 0900
480-21774-1	MR-SB-1SS-DP-13-1.5-2	Solid	06/25/2012 1500	06/26/2012 0900
480-21775-1	MR-C-1SS-DP-13-0-0.5	Solid	06/25/2012 1445	06/26/2012 0900
480-21847-1	MR-SB-1SS-DP-13-35.5-36	Solid	06/26/2012 0755	06/27/2012 0900
480-21847-2	MR-SB-1SS-DP-13-47-47.5	Solid	06/26/2012 0900	06/27/2012 0900
480-21847-3	MR-SB-1SS-DP-13-54.5-55	Solid	06/26/2012 0915	06/27/2012 0900
480-21847-4	MP-DUP-062612	Solid	06/26/2012 0000	06/27/2012 0900
480-21847-5	MR-SB-1SS-DP-13-64-64.5	Solid	06/26/2012 1055	06/27/2012 0900
480-21847-6	MR-SB-1SS-DP-10-1.5-2	Solid	06/26/2012 1400	06/27/2012 0900
480-21847-7	MR-SB-1SS-DP-10-12-12.5	Solid	06/26/2012 1450	06/27/2012 0900
480-21847-8	MR-SB-1SS-DP-10-24-24.5	Solid	06/26/2012 1510	06/27/2012 0900
480-21847-9	MR-SB-1SS-DP-10-32-32.5	Solid	06/26/2012 1520	06/27/2012 0900
480-21847-9MS	MR-SB-1SS-DP-10-32-32.5	Solid	06/26/2012 1520	06/27/2012 0900
480-21847-9MSD	MR-SB-1SS-DP-10-32-32.5	Solid	06/26/2012 1520	06/27/2012 0900
480-21847-10	MR-SB-1SS-DP-10-44-44.5	Solid	06/26/2012 1535	06/27/2012 0900
480-21847-11	MR-SB-1SS-DP-10-56-56.5	Solid	06/26/2012 1555	06/27/2012 0900
480-21847-12	MR-SB-1SS-DP-10-66-6.5	Solid	06/26/2012 1610	06/27/2012 0900
480-21847-13	MR-FB-062612	Water	06/26/2012 1630	06/27/2012 0900

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-21773-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-21773-1	**MR-SB-1SS-DP-13-1.5-2**					
Mercury, Total		3.0		0.45	mg/Kg	7471A
Percent Moisture		9.1		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
480-21773-2	**MR-SB-1SS-DP-13-12-12.5**					
Mercury, Total		0.82		0.13	mg/Kg	7471A
Percent Moisture		26		0.10	%	Moisture
Percent Solids		74		0.10	%	Moisture
480-21773-3	**MR-SB-1SS-DP-13-23.5-24**					
Percent Moisture		25		0.10	%	Moisture
Percent Solids		75		0.10	%	Moisture
480-21775-1	**MR-C-1SS-DP-13-0-0.5**					
Mercury, Total		0.33		0.021	mg/Kg	7471A
Percent Moisture		5.8		0.10	%	Moisture
Percent Solids		94		0.10	%	Moisture
TCLP						
Mercury		0.00054		0.00020	mg/L	7470A
480-21847-1	**MR-SB-1SS-DP-13-35.5-36**					
Percent Moisture		20		0.10	%	Moisture
Percent Solids		80		0.10	%	Moisture
480-21847-2	**MR-SB-1SS-DP-13-47-47.5**					
Percent Moisture		20		0.10	%	Moisture
Percent Solids		80		0.10	%	Moisture
480-21847-3	**MR-SB-1SS-DP-13-54.5-55**					
Percent Moisture		22		0.10	%	Moisture
Percent Solids		78		0.10	%	Moisture
480-21847-4	**MP-DUP-062612**					
Percent Moisture		23		0.10	%	Moisture
Percent Solids		77		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-21773-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-21847-5	**MR-SB-1SS-DP-13-64-64.5**					
Percent Moisture		27		0.10	%	Moisture
Percent Solids		73		0.10	%	Moisture
480-21847-6	**MR-SB-1SS-DP-10-1.5-2**					
Mercury, Total		2.2		0.42	mg/Kg	7471A
Percent Moisture		8.5		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
480-21847-7	**MR-SB-1SS-DP-10-12-12.5**					
Mercury, Total		0.57		0.027	mg/Kg	7471A
Percent Moisture		25		0.10	%	Moisture
Percent Solids		75		0.10	%	Moisture
480-21847-8	**MR-SB-1SS-DP-10-24-24.5**					
Mercury, Total		0.043		0.027	mg/Kg	7471A
Percent Moisture		25		0.10	%	Moisture
Percent Solids		75		0.10	%	Moisture
480-21847-9	**MR-SB-1SS-DP-10-32-32.5**					
Percent Moisture		19		0.10	%	Moisture
Percent Solids		81		0.10	%	Moisture
480-21847-10	**MR-SB-1SS-DP-10-44-44.5**					
Percent Moisture		25		0.10	%	Moisture
Percent Solids		75		0.10	%	Moisture
480-21847-11	**MR-SB-1SS-DP-10-56-56.5**					
Percent Moisture		21		0.10	%	Moisture
Percent Solids		79		0.10	%	Moisture
480-21847-12	**MR-SB-1SS-DP-10-66-6.5**					
Percent Moisture		25		0.10	%	Moisture
Percent Solids		75		0.10	%	Moisture

METHOD SUMMARY

Client: Brown and Caldwell

Job Number: 480-21773-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Mercury (CVAA)	TAL BUF	SW846 7470A	
TCLP Extraction	TAL BUF		SW846 1311
Preparation, Mercury	TAL BUF		SW846 7470A
Mercury (CVAA)	TAL BUF	SW846 7471A	
Preparation, Mercury	TAL BUF		SW846 7471A
Percent Moisture	TAL BUF	EPA Moisture	
Matrix Water			
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Brown and Caldwell

Job Number: 480-21773-1

Method	Analyst	Analyst ID
SW846 7470A	Kacalski, Jason	JRK
SW846 7471A	Kacalski, Jason	JRK
EPA Moisture	Robitaille, Zach L	ZLR

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-13-1.5-2**

Lab Sample ID: 480-21773-1

Client Matrix: Solid

% Moisture: 9.1

Date Sampled: 06/25/2012 1500

Date Received: 06/26/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70091	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70041	Lab File ID:	J06262S1.PRN
Dilution:	20			Initial Weight/Volume:	+0.5830 g
Analysis Date:	06/26/2012 1448			Final Weight/Volume:	50 mL
Prep Date:	06/26/2012 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		3.0		0.45

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-13-12-12.5**

Lab Sample ID: 480-21773-2

Client Matrix: Solid

% Moisture: 26.1

Date Sampled: 06/25/2012 1520

Date Received: 06/26/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70091	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70041	Lab File ID:	J06262S1.PRN
Dilution:	5.0			Initial Weight/Volume:	+0.6385 g
Analysis Date:	06/26/2012 1449			Final Weight/Volume:	50 mL
Prep Date:	06/26/2012 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.82		0.13

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-13-23.5-24**

Lab Sample ID: 480-21773-3

Client Matrix: Solid

% Moisture: 25.2

Date Sampled: 06/25/2012 1605

Date Received: 06/26/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70091	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70041	Lab File ID:	J06262S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5913 g
Analysis Date:	06/26/2012 1453			Final Weight/Volume:	50 mL
Prep Date:	06/26/2012 1120				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.027

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-13-1.5-2**

Lab Sample ID: 480-21774-1

Client Matrix: Solid

Date Sampled: 06/25/2012 1500

Date Received: 06/26/2012 0900

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-70365	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	480-70203	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1501			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0912				
Leach Date:	06/27/2012 1138				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Mercury		ND		0.00020

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-C-1SS-DP-13-0-0.5**

Lab Sample ID: 480-21775-1

Client Matrix: Solid

Date Sampled: 06/25/2012 1445

Date Received: 06/26/2012 0900

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-70368	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	480-70240	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1518			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0913				
Leach Date:	06/27/2012 1355				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Mercury		0.00054		0.00020

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6051 g
Analysis Date:	06/28/2012 1613			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.33		0.021

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-13-35.5-36**

Lab Sample ID: 480-21847-1

Client Matrix: Solid

% Moisture: 19.7

Date Sampled: 06/26/2012 0755

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6270 g
Analysis Date:	06/27/2012 1559			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.024

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-13-47-47.5**

Lab Sample ID: 480-21847-2

Client Matrix: Solid

% Moisture: 20.0

Date Sampled: 06/26/2012 0900

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6431 g
Analysis Date:	06/27/2012 1601			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.023

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-13-54.5-55**

Lab Sample ID: 480-21847-3

Client Matrix: Solid

% Moisture: 22.3

Date Sampled: 06/26/2012 0915

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6435 g
Analysis Date:	06/27/2012 1602			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.024

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MP-DUP-062612**

Lab Sample ID: 480-21847-4

Client Matrix: Solid

% Moisture: 22.6

Date Sampled: 06/26/2012 0000

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6495 g
Analysis Date:	06/27/2012 1604			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.024

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-13-64-64.5**

Lab Sample ID: 480-21847-5

Client Matrix: Solid

% Moisture: 27.0

Date Sampled: 06/26/2012 1055

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6365 g
Analysis Date:	06/27/2012 1606			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.026

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-10-1.5-2**

Lab Sample ID: 480-21847-6

Client Matrix: Solid

% Moisture: 8.5

Date Sampled: 06/26/2012 1400

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	20			Initial Weight/Volume:	+0.6289 g
Analysis Date:	06/27/2012 1528			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		2.2		0.42

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-10-12-12.5**

Lab Sample ID: 480-21847-7

Date Sampled: 06/26/2012 1450

Client Matrix: Solid

% Moisture: 25.4

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5931 g
Analysis Date:	06/27/2012 1610			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.57		0.027

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-10-24-24.5**

Lab Sample ID: 480-21847-8

Client Matrix: Solid

% Moisture: 24.7

Date Sampled: 06/26/2012 1510

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5958 g
Analysis Date:	06/27/2012 1611			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.043		0.027

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-10-32-32.5**

Lab Sample ID: 480-21847-9

Client Matrix: Solid

% Moisture: 18.7

Date Sampled: 06/26/2012 1520

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6516 g
Analysis Date:	06/27/2012 1613			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.023

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-10-44-44.5**

Lab Sample ID: 480-21847-10

Client Matrix: Solid

% Moisture: 24.6

Date Sampled: 06/26/2012 1535

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6012 g
Analysis Date:	06/27/2012 1623			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.026

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-10-56-56.5**

Lab Sample ID: 480-21847-11

Client Matrix: Solid

% Moisture: 20.6

Date Sampled: 06/26/2012 1555

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6201 g
Analysis Date:	06/27/2012 1625			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.024

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-SB-1SS-DP-10-66-6.5**

Lab Sample ID: 480-21847-12

Client Matrix: Solid

% Moisture: 24.8

Date Sampled: 06/26/2012 1610

Date Received: 06/27/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6188 g
Analysis Date:	06/27/2012 1627			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.026

Client: Brown and Caldwell

Job Number: 480-21773-1

Client Sample ID: **MR-FB-062612**

Lab Sample ID: 480-21847-13

Client Matrix: Water

Date Sampled: 06/26/2012 1630

Date Received: 06/27/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-70443	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-70345	Lab File ID:	h06282w1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1313			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0838				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-13-1.5-2**

Lab Sample ID: 480-21773-1

Client Matrix: Solid

Date Sampled: 06/25/2012 1500

Date Received: 06/26/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	9.1		%	0.10	1.0	Moisture
	Analysis Batch: 480-70055		Analysis Date: 06/26/2012 1157			DryWt Corrected: N
Percent Solids	91		%	0.10	1.0	Moisture
	Analysis Batch: 480-70055		Analysis Date: 06/26/2012 1157			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-13-12-12.5**

Lab Sample ID: 480-21773-2

Client Matrix: Solid

Date Sampled: 06/25/2012 1520

Date Received: 06/26/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	26		%	0.10	1.0	Moisture
	Analysis Batch: 480-70055		Analysis Date: 06/26/2012 1157			DryWt Corrected: N
Percent Solids	74		%	0.10	1.0	Moisture
	Analysis Batch: 480-70055		Analysis Date: 06/26/2012 1157			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-13-23.5-24**

Lab Sample ID: 480-21773-3

Client Matrix: Solid

Date Sampled: 06/25/2012 1605

Date Received: 06/26/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	25		%	0.10	1.0	Moisture
	Analysis Batch: 480-70055		Analysis Date: 06/26/2012 1157			DryWt Corrected: N
Percent Solids	75		%	0.10	1.0	Moisture
	Analysis Batch: 480-70055		Analysis Date: 06/26/2012 1157			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-C-1SS-DP-13-0-0.5**

Lab Sample ID: 480-21775-1

Client Matrix: Solid

Date Sampled: 06/25/2012 1445

Date Received: 06/26/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	5.8		%	0.10	1.0	Moisture
	Analysis Batch: 480-70083		Analysis Date: 06/26/2012 1450			DryWt Corrected: N
Percent Solids	94		%	0.10	1.0	Moisture
	Analysis Batch: 480-70083		Analysis Date: 06/26/2012 1450			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-13-35.5-36**

Lab Sample ID: 480-21847-1

Client Matrix: Solid

Date Sampled: 06/26/2012 0755

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	20		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	80		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-13-47-47.5**

Lab Sample ID: 480-21847-2

Client Matrix: Solid

Date Sampled: 06/26/2012 0900

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	20		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	80		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-13-54.5-55**

Lab Sample ID: 480-21847-3

Client Matrix: Solid

Date Sampled: 06/26/2012 0915

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	22		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	78		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MP-DUP-062612**

Lab Sample ID: 480-21847-4

Client Matrix: Solid

Date Sampled: 06/26/2012 0000

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	23		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	77		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-13-64-64.5**

Lab Sample ID: 480-21847-5

Client Matrix: Solid

Date Sampled: 06/26/2012 1055

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	27		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	73		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-10-1.5-2**

Lab Sample ID: 480-21847-6

Client Matrix: Solid

Date Sampled: 06/26/2012 1400

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	8.5		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	91		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-10-12-12.5**

Lab Sample ID: 480-21847-7

Client Matrix: Solid

Date Sampled: 06/26/2012 1450

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	25		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	75		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-10-24-24.5**

Lab Sample ID: 480-21847-8

Client Matrix: Solid

Date Sampled: 06/26/2012 1510

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	25		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	75		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-10-32-32.5**

Lab Sample ID: 480-21847-9

Client Matrix: Solid

Date Sampled: 06/26/2012 1520

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	19		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	81		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-10-44-44.5**

Lab Sample ID: 480-21847-10

Client Matrix: Solid

Date Sampled: 06/26/2012 1535

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	25		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	75		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-10-56-56.5**

Lab Sample ID: 480-21847-11

Client Matrix: Solid

Date Sampled: 06/26/2012 1555

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	21		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	79		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-10-66-6.5**

Lab Sample ID: 480-21847-12

Client Matrix: Solid

Date Sampled: 06/26/2012 1610

Date Received: 06/27/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	25		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N
Percent Solids	75		%	0.10	1.0	Moisture
	Analysis Batch: 480-70234		Analysis Date: 06/27/2012 1326			DryWt Corrected: N

Client: Brown and Caldwell

Job Number: 480-21773-1

Method Blank - Batch: 480-70345

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-70345/1-A	Analysis Batch:	480-70443	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70345	Lab File ID:	h06282w1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1240	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0838				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-70345

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-70345/2-A	Analysis Batch:	480-70443	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70345	Lab File ID:	h06282w1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1243	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0838				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.75	101	80 - 120	

Client: Brown and Caldwell

Job Number: 480-21773-1

TCLP SPLPE Leachate Blank - Batch: 480-70365

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB 480-70203/1-B	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-70365	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	480-70203	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1456	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0912				
Leach Date:	06/27/2012 1138				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Method Blank - Batch: 480-70365

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-70365/2-A	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70365	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1458	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0912				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Lab Control Sample - Batch: 480-70365

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-70365/3-A	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70365	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1459	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0912				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00668	0.00642	96	80 - 120	

Client: Brown and Caldwell

Job Number: 480-21773-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70365

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID:	480-21774-1	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-70365	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	480-70203	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1506			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0912				
Leach Date:	06/27/2012 1138				

MSD Lab Sample ID:	480-21774-1	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-70365	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	480-70203	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1508			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0912				
Leach Date:	06/27/2012 1138				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	94	100	75 - 125	5	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70365

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID:	480-21774-1	Units: mg/L	MSD Lab Sample ID: 480-21774-1
Client Matrix:	Solid		Client Matrix: Solid
Dilution:	1.0		Dilution: 1.0
Analysis Date:	06/28/2012 1506		Analysis Date: 06/28/2012 1508
Prep Date:	06/28/2012 0912		Prep Date: 06/28/2012 0912
Leach Date:	06/27/2012 1138		Leach Date: 06/27/2012 1138

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	0.00668	0.00668	0.00630	0.00665

Serial Dilution - Batch: 480-70365

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	480-21774-1	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-70365	Lab File ID:	H06282TC.PRN
Dilution:	5.0	Leach Batch:	480-70203	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1503	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0912				
Leach Date:	06/27/2012 1138				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury	ND	ND	NC	10	

Client: Brown and Caldwell

Job Number: 480-21773-1

TCLP SPLPW Leachate Blank - Batch: 480-70368

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB2 480-70240/2-B	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-70368	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	480-70240	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1509	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0913				
Leach Date:	06/27/2012 1355				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Method Blank - Batch: 480-70368

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-70368/2-A	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70368	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1511	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0913				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Lab Control Sample - Batch: 480-70368

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-70368/3-A	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70368	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1513	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0913				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00668	0.00647	97	80 - 120	

Client: Brown and Caldwell

Job Number: 480-21773-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70368

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID:	480-21775-1	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-70368	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	480-70240	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1522			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0913				
Leach Date:	06/27/2012 1355				

MSD Lab Sample ID:	480-21775-1	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-70368	Lab File ID:	H06282TC.PRN
Dilution:	1.0	Leach Batch:	480-70240	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1523			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0913				
Leach Date:	06/27/2012 1355				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	98	93	75 - 125	4	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70368

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID:	480-21775-1	Units: mg/L	MSD Lab Sample ID: 480-21775-1
Client Matrix:	Solid		Client Matrix: Solid
Dilution:	1.0		Dilution: 1.0
Analysis Date:	06/28/2012 1522		Analysis Date: 06/28/2012 1523
Prep Date:	06/28/2012 0913		Prep Date: 06/28/2012 0913
Leach Date:	06/27/2012 1355		Leach Date: 06/27/2012 1355

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.00054	0.00668	0.00668	0.00705	0.00675

Serial Dilution - Batch: 480-70368

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	480-21775-1	Analysis Batch:	480-70451	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-70368	Lab File ID:	H06282TC.PRN
Dilution:	5.0	Leach Batch:	480-70240	Initial Weight/Volume:	30 mL
Analysis Date:	06/28/2012 1520	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0913				
Leach Date:	06/27/2012 1355				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury	0.00054	ND	NC	10	

Client: Brown and Caldwell

Job Number: 480-21773-1

Method Blank - Batch: 480-70041

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 480-70041/1-A	Analysis Batch:	480-70091	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70041	Lab File ID:	J06262S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6149 g
Analysis Date:	06/26/2012 1425	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/26/2012 1120				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.020

LCS-Certified Reference Material - Batch: 480-70041

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM 480-70041/2-A	Analysis Batch:	480-70091	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70041	Lab File ID:	J06262S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0526 g
Analysis Date:	06/26/2012 1426	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/26/2012 1120				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	3.77	4.08	108.2	71.6 - 128.4	

Client: Brown and Caldwell

Job Number: 480-21773-1

Method Blank - Batch: 480-70235

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 480-70235/1-A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6387 g
Analysis Date:	06/27/2012 1512	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.019

LCS-Certified Reference Material - Batch: 480-70235

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM 480-70235/2-A	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0527 g
Analysis Date:	06/27/2012 1514	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	3.77	3.44	91.4	71.6 - 128.4	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70235

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-21847-9	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6227 g
Analysis Date:	06/27/2012 1620			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				
Leach Date:	N/A				

MSD Lab Sample ID:	480-21847-9	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6373 g
Analysis Date:	06/27/2012 1622			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Total	94	94	75 - 125	2	20		

Client: Brown and Caldwell

Job Number: 480-21773-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70235

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-21847-9	Units: mg/Kg	MSD Lab Sample ID:	480-21847-9
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	06/27/2012 1620		Analysis Date:	06/27/2012 1622
Prep Date:	06/27/2012 1326		Prep Date:	06/27/2012 1326
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury, Total	ND	0.395	0.386	0.370	0.365

Serial Dilution - Batch: 480-70235

Method: 7471A
Preparation: 7471A

Lab Sample ID:	480-21847-9	Analysis Batch:	480-70327	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70235	Lab File ID:	J06272S1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6516 g
Analysis Date:	06/27/2012 1615	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 1326				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Total	ND	ND	NC	10	

Client: Brown and Caldwell

Job Number: 480-21773-1

Method Blank - Batch: 480-70418

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 480-70418/1-A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6167 g
Analysis Date:	06/28/2012 1539	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.019

LCS-Certified Reference Material - Batch: 480-70418

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM 480-70418/2-A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0527 g
Analysis Date:	06/28/2012 1541	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	3.77	3.30	87.6	71.6 - 128.4	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Brown and Caldwell

Job Number: 480-21773-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-70041					
LCSSRM 480-70041/2-A	LCS-Certified Reference Material	T	Solid	7471A	
MB 480-70041/1-A	Method Blank	T	Solid	7471A	
480-21773-1	MR-SB-1SS-DP-13-1.5-2	T	Solid	7471A	
480-21773-2	MR-SB-1SS-DP-13-12-12.5	T	Solid	7471A	
480-21773-3	MR-SB-1SS-DP-13-23.5-24	T	Solid	7471A	
Analysis Batch:480-70091					
LCSSRM 480-70041/2-A	LCS-Certified Reference Material	T	Solid	7471A	480-70041
MB 480-70041/1-A	Method Blank	T	Solid	7471A	480-70041
480-21773-1	MR-SB-1SS-DP-13-1.5-2	T	Solid	7471A	480-70041
480-21773-2	MR-SB-1SS-DP-13-12-12.5	T	Solid	7471A	480-70041
480-21773-3	MR-SB-1SS-DP-13-23.5-24	T	Solid	7471A	480-70041
Prep Batch: 480-70203					
LB 480-70203/1-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
480-21774-1	MR-SB-1SS-DP-13-1.5-2	P	Solid	1311	
480-21774-1MS	Matrix Spike	P	Solid	1311	
480-21774-1MSD	Matrix Spike Duplicate	P	Solid	1311	
Prep Batch: 480-70235					
LCSSRM 480-70235/2-A	LCS-Certified Reference Material	T	Solid	7471A	
MB 480-70235/1-A	Method Blank	T	Solid	7471A	
480-21847-1	MR-SB-1SS-DP-13-35.5-36	T	Solid	7471A	
480-21847-2	MR-SB-1SS-DP-13-47-47.5	T	Solid	7471A	
480-21847-3	MR-SB-1SS-DP-13-54.5-55	T	Solid	7471A	
480-21847-4	MP-DUP-062612	T	Solid	7471A	
480-21847-5	MR-SB-1SS-DP-13-64-64.5	T	Solid	7471A	
480-21847-6	MR-SB-1SS-DP-10-1.5-2	T	Solid	7471A	
480-21847-7	MR-SB-1SS-DP-10-12-12.5	T	Solid	7471A	
480-21847-8	MR-SB-1SS-DP-10-24-24.5	T	Solid	7471A	
480-21847-9	MR-SB-1SS-DP-10-32-32.5	T	Solid	7471A	
480-21847-9MS	Matrix Spike	T	Solid	7471A	
480-21847-9MSD	Matrix Spike Duplicate	T	Solid	7471A	
480-21847-10	MR-SB-1SS-DP-10-44-44.5	T	Solid	7471A	
480-21847-11	MR-SB-1SS-DP-10-56-56.5	T	Solid	7471A	
480-21847-12	MR-SB-1SS-DP-10-66-6.5	T	Solid	7471A	
Prep Batch: 480-70240					
LB2 480-70240/2-B	TCLP SPLPW Leachate Blank	P	Solid	1311	
480-21775-1	MR-C-1SS-DP-13-0-0.5	P	Solid	1311	
480-21775-1MS	Matrix Spike	P	Solid	1311	
480-21775-1MSD	Matrix Spike Duplicate	P	Solid	1311	

Client: Brown and Caldwell

Job Number: 480-21773-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-70327					
LCSSRM 480-70235/2-A	LCS-Certified Reference Material	T	Solid	7471A	480-70235
MB 480-70235/1-A	Method Blank	T	Solid	7471A	480-70235
480-21847-1	MR-SB-1SS-DP-13-35.5-36	T	Solid	7471A	480-70235
480-21847-2	MR-SB-1SS-DP-13-47-47.5	T	Solid	7471A	480-70235
480-21847-3	MR-SB-1SS-DP-13-54.5-55	T	Solid	7471A	480-70235
480-21847-4	MP-DUP-062612	T	Solid	7471A	480-70235
480-21847-5	MR-SB-1SS-DP-13-64-64.5	T	Solid	7471A	480-70235
480-21847-6	MR-SB-1SS-DP-10-1.5-2	T	Solid	7471A	480-70235
480-21847-7	MR-SB-1SS-DP-10-12-12.5	T	Solid	7471A	480-70235
480-21847-8	MR-SB-1SS-DP-10-24-24.5	T	Solid	7471A	480-70235
480-21847-9	MR-SB-1SS-DP-10-32-32.5	T	Solid	7471A	480-70235
480-21847-9MS	Matrix Spike	T	Solid	7471A	480-70235
480-21847-9MSD	Matrix Spike Duplicate	T	Solid	7471A	480-70235
480-21847-10	MR-SB-1SS-DP-10-44-44.5	T	Solid	7471A	480-70235
480-21847-11	MR-SB-1SS-DP-10-56-56.5	T	Solid	7471A	480-70235
480-21847-12	MR-SB-1SS-DP-10-66-6.5	T	Solid	7471A	480-70235
Prep Batch: 480-70345					
LCS 480-70345/2-A	Lab Control Sample	T	Water	7470A	
MB 480-70345/1-A	Method Blank	T	Water	7470A	
480-21847-13	MR-FB-062612	T	Water	7470A	
Prep Batch: 480-70365					
LCS 480-70365/3-A	Lab Control Sample	T	Water	7470A	
MB 480-70365/2-A	Method Blank	T	Water	7470A	
LB 480-70203/1-B	TCLP SPLPE Leachate Blank	P	Solid	7470A	480-70203
480-21774-1	MR-SB-1SS-DP-13-1.5-2	P	Solid	7470A	480-70203
480-21774-1MS	Matrix Spike	P	Solid	7470A	480-70203
480-21774-1MSD	Matrix Spike Duplicate	P	Solid	7470A	480-70203
Prep Batch: 480-70368					
LCS 480-70368/3-A	Lab Control Sample	T	Water	7470A	
MB 480-70368/2-A	Method Blank	T	Water	7470A	
LB2 480-70240/2-B	TCLP SPLPW Leachate Blank	P	Solid	7470A	480-70240
480-21775-1	MR-C-1SS-DP-13-0-0.5	P	Solid	7470A	480-70240
480-21775-1MS	Matrix Spike	P	Solid	7470A	480-70240
480-21775-1MSD	Matrix Spike Duplicate	P	Solid	7470A	480-70240
Prep Batch: 480-70418					
LCSSRM 480-70418/2-A	LCS-Certified Reference Material	T	Solid	7471A	
MB 480-70418/1-A	Method Blank	T	Solid	7471A	
480-21775-1	MR-C-1SS-DP-13-0-0.5	T	Solid	7471A	

Client: Brown and Caldwell

Job Number: 480-21773-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-70443					
LCS 480-70345/2-A	Lab Control Sample	T	Water	7470A	480-70345
MB 480-70345/1-A	Method Blank	T	Water	7470A	480-70345
480-21847-13	MR-FB-062612	T	Water	7470A	480-70345
Analysis Batch:480-70451					
LB 480-70203/1-B	TCLP SPLPE Leachate Blank	P	Solid	7470A	480-70365
LCS 480-70365/3-A	Lab Control Sample	T	Water	7470A	480-70365
MB 480-70365/2-A	Method Blank	T	Water	7470A	480-70365
LB2 480-70240/2-B	TCLP SPLPW Leachate Blank	P	Solid	7470A	480-70368
LCS 480-70368/3-A	Lab Control Sample	T	Water	7470A	480-70368
MB 480-70368/2-A	Method Blank	T	Water	7470A	480-70368
480-21774-1	MR-SB-1SS-DP-13-1.5-2	P	Solid	7470A	480-70365
480-21774-1MS	Matrix Spike	P	Solid	7470A	480-70365
480-21774-1MSD	Matrix Spike Duplicate	P	Solid	7470A	480-70365
480-21775-1	MR-C-1SS-DP-13-0-0.5	P	Solid	7470A	480-70368
480-21775-1MS	Matrix Spike	P	Solid	7470A	480-70368
480-21775-1MSD	Matrix Spike Duplicate	P	Solid	7470A	480-70368
Analysis Batch:480-70464					
LCSSRM 480-70418/2-A	LCS-Certified Reference Material	T	Solid	7471A	480-70418
MB 480-70418/1-A	Method Blank	T	Solid	7471A	480-70418
480-21775-1	MR-C-1SS-DP-13-0-0.5	T	Solid	7471A	480-70418

Report Basis

P = TCLP

T = Total

Client: Brown and Caldwell

Job Number: 480-21773-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-70055					
480-21773-1	MR-SB-1SS-DP-13-1.5-2	T	Solid	Moisture	
480-21773-2	MR-SB-1SS-DP-13-12-12.5	T	Solid	Moisture	
480-21773-3	MR-SB-1SS-DP-13-23.5-24	T	Solid	Moisture	
Analysis Batch:480-70083					
480-21775-1	MR-C-1SS-DP-13-0-0.5	T	Solid	Moisture	
Analysis Batch:480-70234					
480-21847-1	MR-SB-1SS-DP-13-35.5-36	T	Solid	Moisture	
480-21847-2	MR-SB-1SS-DP-13-47-47.5	T	Solid	Moisture	
480-21847-3	MR-SB-1SS-DP-13-54.5-55	T	Solid	Moisture	
480-21847-4	MP-DUP-062612	T	Solid	Moisture	
480-21847-5	MR-SB-1SS-DP-13-64-64.5	T	Solid	Moisture	
480-21847-6	MR-SB-1SS-DP-10-1.5-2	T	Solid	Moisture	
480-21847-7	MR-SB-1SS-DP-10-12-12.5	T	Solid	Moisture	
480-21847-8	MR-SB-1SS-DP-10-24-24.5	T	Solid	Moisture	
480-21847-9	MR-SB-1SS-DP-10-32-32.5	T	Solid	Moisture	
480-21847-9MS	Matrix Spike	T	Solid	Moisture	
480-21847-9MSD	Matrix Spike Duplicate	T	Solid	Moisture	
480-21847-10	MR-SB-1SS-DP-10-44-44.5	T	Solid	Moisture	
480-21847-11	MR-SB-1SS-DP-10-56-56.5	T	Solid	Moisture	
480-21847-12	MR-SB-1SS-DP-10-66-6.5	T	Solid	Moisture	

Report Basis

T = Total

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-21773-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Client: Brown and Caldwell

Job Number: 480-21773-1

Laboratory Chronicle

Lab ID: 480-21773-1 **Client ID:** MR-SB-1SS-DP-13-1.5-2

Sample Date/Time: 06/25/2012 15:00 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21773-A-1-A ^20		480-70091	480-70041	06/26/2012 11:20	20	TAL BUF	JRK
A:7471A	480-21773-A-1-A ^20		480-70091	480-70041	06/26/2012 14:48	20	TAL BUF	JRK
A:Moisture	480-21773-A-1		480-70055		06/26/2012 11:57	1	TAL BUF	ZLR

Lab ID: 480-21773-2 **Client ID:** MR-SB-1SS-DP-13-12-12.5

Sample Date/Time: 06/25/2012 15:20 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21773-A-2-A ^5		480-70091	480-70041	06/26/2012 11:20	5	TAL BUF	JRK
A:7471A	480-21773-A-2-A ^5		480-70091	480-70041	06/26/2012 14:49	5	TAL BUF	JRK
A:Moisture	480-21773-A-2		480-70055		06/26/2012 11:57	1	TAL BUF	ZLR

Lab ID: 480-21773-3 **Client ID:** MR-SB-1SS-DP-13-23.5-24

Sample Date/Time: 06/25/2012 16:05 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21773-A-3-A		480-70091	480-70041	06/26/2012 11:20	1	TAL BUF	JRK
A:7471A	480-21773-A-3-A		480-70091	480-70041	06/26/2012 14:53	1	TAL BUF	JRK
A:Moisture	480-21773-A-3		480-70055		06/26/2012 11:57	1	TAL BUF	ZLR

Lab ID: 480-21774-1 **Client ID:** MR-SB-1SS-DP-13-1.5-2

Sample Date/Time: 06/25/2012 15:00 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21774-A-1-B		480-70451	480-70365	06/28/2012 09:12	1	TAL BUF	JRK
A:7470A	480-21774-A-1-B		480-70451	480-70365	06/28/2012 15:01	1	TAL BUF	JRK

Lab ID: 480-21774-1 MS **Client ID:** MR-SB-1SS-DP-13-1.5-2

Sample Date/Time: 06/25/2012 15:00 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21774-A-1-C MS		480-70451	480-70365	06/28/2012 09:12	1	TAL BUF	JRK
A:7470A	480-21774-A-1-C MS		480-70451	480-70365	06/28/2012 15:06	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-21773-1

Laboratory Chronicle

Lab ID: **480-21774-1 MSD** **Client ID:** **MR-SB-1SS-DP-13-1.5-2**

Sample Date/Time: 06/25/2012 15:00 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21774-A-1-D MSD		480-70451	480-70365	06/28/2012 09:12	1	TAL BUF	JRK
A:7470A	480-21774-A-1-D MSD		480-70451	480-70365	06/28/2012 15:08	1	TAL BUF	JRK

Lab ID: **480-21774-1 SD** **Client ID:** **MR-SB-1SS-DP-13-1.5-2**

Sample Date/Time: 06/25/2012 15:00 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21774-A-1-B SD ^5		480-70451	480-70365	06/28/2012 09:12	5	TAL BUF	JRK
A:7470A	480-21774-A-1-B SD ^5		480-70451	480-70365	06/28/2012 15:03	5	TAL BUF	JRK

Lab ID: **480-21775-1** **Client ID:** **MR-C-1SS-DP-13-0-0.5**

Sample Date/Time: 06/25/2012 14:45 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21775-B-1-C		480-70451	480-70368	06/28/2012 09:13	1	TAL BUF	JRK
A:7470A	480-21775-B-1-C		480-70451	480-70368	06/28/2012 15:18	1	TAL BUF	JRK
P:7471A	480-21775-A-1-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21775-A-1-A		480-70464	480-70418	06/28/2012 16:13	1	TAL BUF	JRK
A:Moisture	480-21775-A-1		480-70083		06/26/2012 14:50	1	TAL BUF	ZLR

Lab ID: **480-21775-1 MS** **Client ID:** **MR-C-1SS-DP-13-0-0.5**

Sample Date/Time: 06/25/2012 14:45 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21775-B-1-D MS		480-70451	480-70368	06/28/2012 09:13	1	TAL BUF	JRK
A:7470A	480-21775-B-1-D MS		480-70451	480-70368	06/28/2012 15:22	1	TAL BUF	JRK

Lab ID: **480-21775-1 MSD** **Client ID:** **MR-C-1SS-DP-13-0-0.5**

Sample Date/Time: 06/25/2012 14:45 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21775-B-1-E MSD		480-70451	480-70368	06/28/2012 09:13	1	TAL BUF	JRK
A:7470A	480-21775-B-1-E MSD		480-70451	480-70368	06/28/2012 15:23	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-21773-1

Laboratory Chronicle

Lab ID: **480-21775-1 SD** **Client ID:** **MR-C-1SS-DP-13-0-0.5**

Sample Date/Time: 06/25/2012 14:45 Received Date/Time: 06/26/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21775-B-1-C SD ^5		480-70451	480-70368	06/28/2012 09:13	5	TAL BUF	JRK
A:7470A	480-21775-B-1-C SD ^5		480-70451	480-70368	06/28/2012 15:20	5	TAL BUF	JRK

Lab ID: **480-21847-1** **Client ID:** **MR-SB-1SS-DP-13-35.5-36**

Sample Date/Time: 06/26/2012 07:55 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-1-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-1-A		480-70327	480-70235	06/27/2012 15:59	1	TAL BUF	JRK
A:Moisture	480-21847-A-1		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-2** **Client ID:** **MR-SB-1SS-DP-13-47-47.5**

Sample Date/Time: 06/26/2012 09:00 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-2-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-2-A		480-70327	480-70235	06/27/2012 16:01	1	TAL BUF	JRK
A:Moisture	480-21847-A-2		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-3** **Client ID:** **MR-SB-1SS-DP-13-54.5-55**

Sample Date/Time: 06/26/2012 09:15 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-3-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-3-A		480-70327	480-70235	06/27/2012 16:02	1	TAL BUF	JRK
A:Moisture	480-21847-A-3		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-4** **Client ID:** **MP-DUP-062612**

Sample Date/Time: 06/26/2012 00:00 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-4-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-4-A		480-70327	480-70235	06/27/2012 16:04	1	TAL BUF	JRK
A:Moisture	480-21847-A-4		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Client: Brown and Caldwell

Job Number: 480-21773-1

Laboratory Chronicle

Lab ID: **480-21847-5** **Client ID:** **MR-SB-1SS-DP-13-64-64.5**

Sample Date/Time: 06/26/2012 10:55 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-5-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-5-A		480-70327	480-70235	06/27/2012 16:06	1	TAL BUF	JRK
A:Moisture	480-21847-A-5		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-6** **Client ID:** **MR-SB-1SS-DP-10-1.5-2**

Sample Date/Time: 06/26/2012 14:00 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-6-A ^20		480-70327	480-70235	06/27/2012 13:26	20	TAL BUF	JRK
A:7471A	480-21847-A-6-A ^20		480-70327	480-70235	06/27/2012 15:28	20	TAL BUF	JRK
A:Moisture	480-21847-A-6		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-7** **Client ID:** **MR-SB-1SS-DP-10-12-12.5**

Sample Date/Time: 06/26/2012 14:50 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-7-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-7-A		480-70327	480-70235	06/27/2012 16:10	1	TAL BUF	JRK
A:Moisture	480-21847-A-7		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-8** **Client ID:** **MR-SB-1SS-DP-10-24-24.5**

Sample Date/Time: 06/26/2012 15:10 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-8-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-8-A		480-70327	480-70235	06/27/2012 16:11	1	TAL BUF	JRK
A:Moisture	480-21847-A-8		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-9** **Client ID:** **MR-SB-1SS-DP-10-32-32.5**

Sample Date/Time: 06/26/2012 15:20 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-9-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-9-A		480-70327	480-70235	06/27/2012 16:13	1	TAL BUF	JRK
A:Moisture	480-21847-A-9		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Client: Brown and Caldwell

Job Number: 480-21773-1

Laboratory Chronicle

Lab ID: **480-21847-9** **Client ID:** **MR-SB-1SS-DP-10-32-32.5**

Sample Date/Time: 06/26/2012 15:20 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-9-B MS		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-9-B MS		480-70327	480-70235	06/27/2012 16:20	1	TAL BUF	JRK
A:Moisture	480-21847-A-9 MS		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-9** **Client ID:** **MR-SB-1SS-DP-10-32-32.5**

Sample Date/Time: 06/26/2012 15:20 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-9-C MSD		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-9-C MSD		480-70327	480-70235	06/27/2012 16:22	1	TAL BUF	JRK
A:Moisture	480-21847-A-9 MSD		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-9 SD** **Client ID:** **MR-SB-1SS-DP-10-32-32.5**

Sample Date/Time: 06/26/2012 15:20 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-9-A SD ^5		480-70327	480-70235	06/27/2012 13:26	5	TAL BUF	JRK
A:7471A	480-21847-A-9-A SD ^5		480-70327	480-70235	06/27/2012 16:15	5	TAL BUF	JRK

Lab ID: **480-21847-10** **Client ID:** **MR-SB-1SS-DP-10-44-44.5**

Sample Date/Time: 06/26/2012 15:35 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-10-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-10-A		480-70327	480-70235	06/27/2012 16:23	1	TAL BUF	JRK
A:Moisture	480-21847-A-10		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-11** **Client ID:** **MR-SB-1SS-DP-10-56-56.5**

Sample Date/Time: 06/26/2012 15:55 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-11-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-11-A		480-70327	480-70235	06/27/2012 16:25	1	TAL BUF	JRK
A:Moisture	480-21847-A-11		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Client: Brown and Caldwell

Job Number: 480-21773-1

Laboratory Chronicle

Lab ID: **480-21847-12** **Client ID:** **MR-SB-1SS-DP-10-66-6.5**

Sample Date/Time: 06/26/2012 16:10 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21847-A-12-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	480-21847-A-12-A		480-70327	480-70235	06/27/2012 16:27	1	TAL BUF	JRK
A:Moisture	480-21847-A-12		480-70234		06/27/2012 13:26	1	TAL BUF	ZLR

Lab ID: **480-21847-13** **Client ID:** **MR-FB-062612**

Sample Date/Time: 06/26/2012 16:30 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21847-A-13-A		480-70443	480-70345	06/28/2012 08:38	1	TAL BUF	JRK
A:7470A	480-21847-A-13-A		480-70443	480-70345	06/28/2012 13:13	1	TAL BUF	JRK

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	MB 480-70345/1-A		480-70443	480-70345	06/28/2012 08:38	1	TAL BUF	JRK
A:7470A	MB 480-70345/1-A		480-70443	480-70345	06/28/2012 12:40	1	TAL BUF	JRK
P:7470A	MB 480-70365/2-A		480-70451	480-70365	06/28/2012 09:12	1	TAL BUF	JRK
A:7470A	MB 480-70365/2-A		480-70451	480-70365	06/28/2012 14:58	1	TAL BUF	JRK
P:7470A	MB 480-70368/2-A		480-70451	480-70368	06/28/2012 09:13	1	TAL BUF	JRK
A:7470A	MB 480-70368/2-A		480-70451	480-70368	06/28/2012 15:11	1	TAL BUF	JRK
P:7471A	MB 480-70041/1-A		480-70091	480-70041	06/26/2012 11:20	1	TAL BUF	JRK
A:7471A	MB 480-70041/1-A		480-70091	480-70041	06/26/2012 14:25	1	TAL BUF	JRK
P:7471A	MB 480-70235/1-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	MB 480-70235/1-A		480-70327	480-70235	06/27/2012 15:12	1	TAL BUF	JRK
P:7471A	MB 480-70418/1-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	MB 480-70418/1-A		480-70464	480-70418	06/28/2012 15:39	1	TAL BUF	JRK

Lab ID: **LB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LB 480-70203/1-B		480-70451	480-70365	06/28/2012 09:12	1	TAL BUF	JRK
A:7470A	LB 480-70203/1-B		480-70451	480-70365	06/28/2012 14:56	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-21773-1

Laboratory Chronicle

Lab ID: **LB2** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LB2 480-70240/2-B		480-70451	480-70368	06/28/2012 09:13	1	TAL BUF	JRK
A:7470A	LB2 480-70240/2-B		480-70451	480-70368	06/28/2012 15:09	1	TAL BUF	JRK

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LCS 480-70345/2-A		480-70443	480-70345	06/28/2012 08:38	1	TAL BUF	JRK
A:7470A	LCS 480-70345/2-A		480-70443	480-70345	06/28/2012 12:43	1	TAL BUF	JRK
P:7470A	LCS 480-70365/3-A		480-70451	480-70365	06/28/2012 09:12	1	TAL BUF	JRK
A:7470A	LCS 480-70365/3-A		480-70451	480-70365	06/28/2012 14:59	1	TAL BUF	JRK
P:7470A	LCS 480-70368/3-A		480-70451	480-70368	06/28/2012 09:13	1	TAL BUF	JRK
A:7470A	LCS 480-70368/3-A		480-70451	480-70368	06/28/2012 15:13	1	TAL BUF	JRK

Lab ID: **LCSSRM** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	LCSSRM 480-70041/2-A		480-70091	480-70041	06/26/2012 11:20	1	TAL BUF	JRK
A:7471A	LCSSRM 480-70041/2-A		480-70091	480-70041	06/26/2012 14:26	1	TAL BUF	JRK
P:7471A	LCSSRM 480-70235/2-A		480-70327	480-70235	06/27/2012 13:26	1	TAL BUF	JRK
A:7471A	LCSSRM 480-70235/2-A		480-70327	480-70235	06/27/2012 15:14	1	TAL BUF	JRK
P:7471A	LCSSRM 480-70418/2-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	LCSSRM 480-70418/2-A		480-70464	480-70418	06/28/2012 15:41	1	TAL BUF	JRK

Lab References:
TAL BUF = TestAmerica Buffalo

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21773-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-SB-1SS-DP-13-1.5-2	480-21773-1
MR-SB-1SS-DP-13-12-12.5	480-21773-2
MR-SB-1SS-DP-13-23.5-24	480-21773-3
MR-SB-1SS-DP-13-1.5-2	480-21774-1
MR-C-1SS-DP-13-0-0.5	480-21775-1
MR-SB-1SS-DP-13-35.5-36	480-21847-1
MR-SB-1SS-DP-13-47-47.5	480-21847-2
MR-SB-1SS-DP-13-54.5-55	480-21847-3
MP-DUP-062612	480-21847-4
MR-SB-1SS-DP-13-64-64.5	480-21847-5
MR-SB-1SS-DP-10-1.5-2	480-21847-6
MR-SB-1SS-DP-10-12-12.5	480-21847-7
MR-SB-1SS-DP-10-24-24.5	480-21847-8
MR-SB-1SS-DP-10-32-32.5	480-21847-9
MR-SB-1SS-DP-10-44-44.5	480-21847-10
MR-SB-1SS-DP-10-56-56.5	480-21847-11
MR-SB-1SS-DP-10-66-6.5	480-21847-12
MR-FB-062612	480-21847-13

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-13-1.5-2

Lab Sample ID: 480-21773-1

Lab Name: TestAmerica Buffalo

Job No.: 480-21773-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/25/2012 15:00

Reporting Basis: DRY

Date Received: 06/26/2012 09:00

% Solids: 90.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	3.0	0.45	0.18	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-13-12-12.5
Lab Sample ID: 480-21773-2
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/25/2012 15:20
Reporting Basis: DRY
Date Received: 06/26/2012 09:00
% Solids: 73.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.82	0.13	0.052	mg/Kg			5	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-13-23.5-24

Lab Sample ID: 480-21773-3

Lab Name: TestAmerica Buffalo

Job No.: 480-21773-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/25/2012 16:05

Reporting Basis: DRY

Date Received: 06/26/2012 09:00

% Solids: 74.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.027	0.011	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MR-SB-1SS-DP-13-1.5-2
Lab Sample ID: 480-21774-1
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/25/2012 15:00
Reporting Basis: WET
Date Received: 06/26/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-C-1SS-DP-13-0-0.5

Lab Sample ID: 480-21775-1

Lab Name: TestAmerica Buffalo

Job No.: 480-21773-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/25/2012 14:45

Reporting Basis: DRY

Date Received: 06/26/2012 09:00

% Solids: 94.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.33	0.021	0.0085	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MR-C-1SS-DP-13-0-0.5
Lab Sample ID: 480-21775-1
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/25/2012 14:45
Reporting Basis: WET
Date Received: 06/26/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00054	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-13-35.5-36

Lab Sample ID: 480-21847-1

Lab Name: TestAmerica Buffalo

Job No.: 480-21773-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/26/2012 07:55

Reporting Basis: DRY

Date Received: 06/27/2012 09:00

% Solids: 80.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.024	0.0097	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-13-47-47.5
Lab Sample ID: 480-21847-2
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/26/2012 09:00
Reporting Basis: DRY
Date Received: 06/27/2012 09:00
% Solids: 80.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.023	0.0094	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-13-54.5-55

Lab Sample ID: 480-21847-3

Lab Name: TestAmerica Buffalo

Job No.: 480-21773-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/26/2012 09:15

Reporting Basis: DRY

Date Received: 06/27/2012 09:00

% Solids: 77.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.024	0.0097	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MP-DUP-062612
Lab Sample ID: 480-21847-4
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/26/2012 00:00
Reporting Basis: DRY
Date Received: 06/27/2012 09:00
% Solids: 77.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.024	0.0097	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-13-64-64.5
Lab Sample ID: 480-21847-5
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/26/2012 10:55
Reporting Basis: DRY
Date Received: 06/27/2012 09:00
% Solids: 73.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.026	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-10-1.5-2

Lab Sample ID: 480-21847-6

Lab Name: TestAmerica Buffalo

Job No.: 480-21773-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/26/2012 14:00

Reporting Basis: DRY

Date Received: 06/27/2012 09:00

% Solids: 91.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	2.2	0.42	0.17	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-10-12-12.5
Lab Sample ID: 480-21847-7
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/26/2012 14:50
Reporting Basis: DRY
Date Received: 06/27/2012 09:00
% Solids: 74.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.57	0.027	0.011	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-10-24-24.5

Lab Sample ID: 480-21847-8

Lab Name: TestAmerica Buffalo

Job No.: 480-21773-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/26/2012 15:10

Reporting Basis: DRY

Date Received: 06/27/2012 09:00

% Solids: 75.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.043	0.027	0.011	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-10-32-32.5
Lab Sample ID: 480-21847-9
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/26/2012 15:20
Reporting Basis: DRY
Date Received: 06/27/2012 09:00
% Solids: 81.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.023	0.0092	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-10-44-44.5
Lab Sample ID: 480-21847-10
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/26/2012 15:35
Reporting Basis: DRY
Date Received: 06/27/2012 09:00
% Solids: 75.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.026	0.011	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-10-56-56.5
Lab Sample ID: 480-21847-11
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/26/2012 15:55
Reporting Basis: DRY
Date Received: 06/27/2012 09:00
% Solids: 79.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.024	0.0099	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-10-66-6.5

Lab Sample ID: 480-21847-12

Lab Name: TestAmerica Buffalo

Job No.: 480-21773-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/26/2012 16:10

Reporting Basis: DRY

Date Received: 06/27/2012 09:00

% Solids: 75.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.026	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-FB-062612
Lab Sample ID: 480-21847-13
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG ID.:
Matrix: Water
Date Sampled: 06/26/2012 16:30
Reporting Basis: WET
Date Received: 06/27/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00124 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00124

Analyte	ICV 480-70443/1 06/28/2012 12:32				CCV 480-70443/4 06/28/2012 12:37				CCV 480-70443/16 06/28/2012 12:59			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00294		0.00300	98	0.00198		0.00200	99	0.00198		0.00200	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00124 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00124

Analyte	CCV 480-70443/28 06/28/2012 13:18											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00197		0.00200	99								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00124 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00124

Analyte	ICV 480-70451/1 06/28/2012 14:47				CCV 480-70451/4 06/28/2012 14:53				CCV 480-70451/16 06/28/2012 15:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00291		0.00300	97	0.00198		0.00200	99	0.00193		0.00200	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00124 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00124

Analyte	CCV 480-70451/23 06/28/2012 15:27											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00196		0.00200	98								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00122 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00122

Analyte	ICV 480-70091/1 06/26/2012 14:18				CCV 480-70091/4 06/26/2012 14:22				CCV 480-70091/16 06/26/2012 14:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00319		0.00300	106	0.00210		0.00200	105	0.00210		0.00200	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00122 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00122

Analyte	CCV 480-70091/22 06/26/2012 14:54											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00207		0.00200	104								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00123 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00123

Analyte	ICV 480-70327/1 06/27/2012 15:03				CCV 480-70327/4 06/27/2012 15:08				CCV 480-70327/16 06/27/2012 15:29			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00277		0.00300	92	0.00185		0.00200	93	0.00189		0.00200	95

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00123 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00123

Analyte	CCV 480-70327/27 06/27/2012 15:49				CCV 480-70327/39 06/27/2012 16:17				CCV 480-70327/46 06/27/2012 16:29			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00186		0.00200	93	0.00186		0.00200	93	0.00187		0.00200	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00124 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00124

Analyte	ICV 480-70464/1 06/28/2012 15:33				CCV 480-70464/4 06/28/2012 15:37				CCV 480-70464/16 06/28/2012 15:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00279		0.00300	93	0.00188		0.00200	94	0.00188		0.00200	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00124 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00124

Analyte	CCV 480-70464/28 06/28/2012 16:08				CCV 480-70464/40 06/28/2012 16:23				CCV 480-70464/61 06/28/2012 16:51			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00184		0.00200	92	0.00186		0.00200	93	0.00180		0.00200	90

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

ICV Source: MEH_HG2_WKG_00124 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00124

Analyte	CCV 480-70464/69 06/28/2012 17:04											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00172		0.00200	86								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN2

Lab Sample ID: CRA 480-70443/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00124

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		93	50-150

Lab Sample ID: CRA 480-70451/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00124

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.000200	ND		92	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Method: 7471A Instrument ID: LEEMAN3

Lab Sample ID: CRA 480-70091/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00122

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	0.000202		101	50-150

Lab Sample ID: CRA 480-70327/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00123

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	0.000215		108	50-150

Lab Sample ID: CRA 480-70464/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00124

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		94	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-70443/2 06/28/2012 12:34		CCB 480-70443/5 06/28/2012 12:39		CCB 480-70443/17 06/28/2012 13:00		CCB 480-70443/29 06/28/2012 13:20	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-70451/2 06/28/2012 14:49		CCB 480-70451/5 06/28/2012 14:55		CCB 480-70451/17 06/28/2012 15:16		CCB 480-70451/24 06/28/2012 15:28	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-70091/2 06/26/2012 14:19		CCB 480-70091/5 06/26/2012 14:24		CCB 480-70091/17 06/26/2012 14:39		CCB 480-70091/23 06/26/2012 14:55	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-70327/2 06/27/2012 15:04		CCB 480-70327/5 06/27/2012 15:10		CCB 480-70327/17 06/27/2012 15:31		CCB 480-70327/28 06/27/2012 15:51	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-70327/40 06/27/2012 16:18		CCB 480-70327/47 06/27/2012 16:31					
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-70464/2 06/28/2012 15:34		CCB 480-70464/5 06/28/2012 15:38		CCB 480-70464/17 06/28/2012 15:53		CCB 480-70464/29 06/28/2012 16:10	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-70464/41 06/28/2012 16:24		CCB 480-70464/62 06/28/2012 16:52		CCB 480-70464/70 06/28/2012 17:06			
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-70345/1-A

Instrument Code: LEEMAN2 Batch No.: 70443

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-70365/2-A

Instrument Code: LEEMAN2 Batch No.: 70451

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-70368/2-A

Instrument Code: LEEMAN2 Batch No.: 70451

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB 480-70203/1-B

Instrument Code: LEEMAN2 Batch No.: 70451

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB2 480-70240/2-B

Instrument Code: LEEMAN2 Batch No.: 70451

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-70041/1-A

Instrument Code: LEEMAN3 Batch No.: 70091

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7471A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-70235/1-A

Instrument Code: LEEMAN3 Batch No.: 70327

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7471A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-70418/1-A

Instrument Code: LEEMAN3 Batch No.: 70464

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7471A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: MR-SB-1SS-DP-13-1.5-2 MS
Lab ID: 480-21774-1 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG No.:
Matrix: Solid
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.00630		ND		0.00668	94	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: MR-C-1SS-DP-13-0-0.5 MS
Lab ID: 480-21775-1 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG No.:
Matrix: Solid
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.00705		0.00054		0.00668	98	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MR-SB-1SS-DP-10-32-32.5 MS
Lab ID: 480-21847-9 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 81.3

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Total	0.370		ND		0.395	94	75-125		7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TCLP

Client ID: MR-SB-1SS-DP-13-1.5-2 MSD
Lab ID: 480-21774-1 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-21773-1
SDG No.:
Matrix: Solid
Concentration Units: mg/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.00665		0.00668	100	75-125	5	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TCLP

Client ID: MR-C-1SS-DP-13-0-0.5 MSD

Lab ID: 480-21775-1 MSD

Lab Name: TestAmerica Buffalo

Job No.: 480-21773-1

SDG No.:

Matrix: Solid

Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.00675		0.00668	93	75-125	4	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MR-SB-1SS-DP-10-32-32.5 MSD

Lab ID: 480-21847-9 MSD

Lab Name: TestAmerica Buffalo

Job No.: 480-21773-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 81.3

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Total	0.365		0.386	94	75-125	2	20		7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-70345/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00124

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.75		101	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-70365/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

Sample Matrix: Water LCS Source: MEH_HG_TCLP_W_00020

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00668	0.00642		96	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-70368/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

Sample Matrix: Water LCS Source: MEH_HG_TCLP_W_00020

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00668	0.00647		97	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-70041/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

Sample Matrix: Solid LCS Source: MEH_SRM_D071_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	3.77	4.08		108.2	71.6	128.4		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-70235/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

Sample Matrix: Solid LCS Source: MEH_SRM_D071_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	3.77	3.44		91.4	71.6	128.4		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-70418/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

Sample Matrix: Solid LCS Source: MEH_SRM_D071_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	3.77	3.30		87.6	71.6	128.4		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Lab ID: 480-21774-1

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-21773-1

Matrix: Solid Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Lab ID: 480-21775-1

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-21773-1

Matrix: Solid Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.00054		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-21847-9

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-21773-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Total	ND		ND		NC		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21773-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21773-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Buffalo Job Number: 480-21773-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.00012

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Buffalo Job Number: 480-21773-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

FORM IX - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21773-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN3

Method: 7471A MDL Date: 01/29/2010 00:00

Prep Method: 7471A

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury, Total	253.7	0.02	0.0081

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21773-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN3

Method: 7471A XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-21773-1

SDG No.:

Instrument ID: LEEMAN2 Date: 03/20/2012 10:04

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7470A
Mercury, Total	10	10	7470A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-21773-1

SDG No.:

Instrument ID: LEEMAN3 Date: 03/20/2012 10:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Total	10	10	7471A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-70041/1-A	06/26/2012 11:20	70041	+0.6149		50
LCSSRM 480-70041/2-A	06/26/2012 11:20	70041	+0.0526		50
480-21773-1	06/26/2012 11:20	70041	+0.5830		50
480-21773-2	06/26/2012 11:20	70041	+0.6385		50
480-21773-3	06/26/2012 11:20	70041	+0.5913		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-70235/1-A	06/27/2012 13:26	70235	+0.6387		50
LCSSRM 480-70235/2-A	06/27/2012 13:26	70235	+0.0527		50
480-21847-1	06/27/2012 13:26	70235	+0.6270		50
480-21847-2	06/27/2012 13:26	70235	+0.6431		50
480-21847-3	06/27/2012 13:26	70235	+0.6435		50
480-21847-4	06/27/2012 13:26	70235	+0.6495		50
480-21847-5	06/27/2012 13:26	70235	+0.6365		50
480-21847-6	06/27/2012 13:26	70235	+0.6289		50
480-21847-7	06/27/2012 13:26	70235	+0.5931		50
480-21847-8	06/27/2012 13:26	70235	+0.5958		50
480-21847-9	06/27/2012 13:26	70235	+0.6516		50
480-21847-9 MS	06/27/2012 13:26	70235	+0.6227		50
480-21847-9 MSD	06/27/2012 13:26	70235	+0.6373		50
480-21847-10	06/27/2012 13:26	70235	+0.6012		50
480-21847-11	06/27/2012 13:26	70235	+0.6201		50
480-21847-12	06/27/2012 13:26	70235	+0.6188		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-70345/1-A	06/28/2012 08:38	70345		30	50
LCS 480-70345/2-A	06/28/2012 08:38	70345		30	50
480-21847-13	06/28/2012 08:38	70345		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB 480-70203/1-B	06/28/2012 09:12	70365		30	50
MB 480-70365/2-A	06/28/2012 09:12	70365		30	50
LCS 480-70365/3-A	06/28/2012 09:12	70365		30	50
480-21774-1	06/28/2012 09:12	70365		30	50
480-21774-1 MS	06/28/2012 09:12	70365		30	50
480-21774-1 MSD	06/28/2012 09:12	70365		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB2 480-70240/2-B	06/28/2012 09:13	70368		30	50
MB 480-70368/2-A	06/28/2012 09:13	70368		30	50
LCS 480-70368/3-A	06/28/2012 09:13	70368		30	50
480-21775-1	06/28/2012 09:13	70368		30	50
480-21775-1 MS	06/28/2012 09:13	70368		30	50
480-21775-1 MSD	06/28/2012 09:13	70368		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-70418/1-A	06/28/2012 14:30	70418	+0.6167		50
LCSSRM 480-70418/2-A	06/28/2012 14:30	70418	+0.0527		50
480-21775-1	06/28/2012 14:30	70418	+0.6051		50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 06/28/2012 12:32 End Date: 06/28/2012 14:08

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-70443/1	1		12:32	X																			
ICB 480-70443/2	1		12:34	X																			
CRA 480-70443/3	1		12:35	X																			
CCV 480-70443/4	1		12:37	X																			
CCB 480-70443/5	1		12:39	X																			
MB 480-70345/1-A	1	T	12:40	X																			
LCS 480-70345/2-A	1	T	12:43	X																			
ZZZZZZ			12:44																				
ZZZZZZ			12:46																				
ZZZZZZ			12:48																				
ZZZZZZ			12:50																				
ZZZZZZ			12:51																				
ZZZZZZ			12:53																				
ZZZZZZ			12:55																				
ZZZZZZ			12:57																				
CCV 480-70443/16	1		12:59	X																			
CCB 480-70443/17	1		13:00	X																			
ZZZZZZ			13:02																				
ZZZZZZ			13:04																				
ZZZZZZ			13:05																				
ZZZZZZ			13:07																				
ZZZZZZ			13:08																				
ZZZZZZ			13:10																				
ZZZZZZ			13:12																				
480-21847-13	1	T	13:13	X																			
ZZZZZZ			13:15																				
ZZZZZZ			13:17																				
CCV 480-70443/28	1		13:18	X																			
CCB 480-70443/29	1		13:20	X																			
ZZZZZZ			13:22																				
ZZZZZZ			13:24																				
ZZZZZZ			13:25																				
ZZZZZZ			13:27																				
ZZZZZZ			13:28																				
ZZZZZZ			13:30																				
ZZZZZZ			13:32																				
ZZZZZZ			13:33																				
ZZZZZZ			13:35																				
ZZZZZZ			13:37																				
CCV 480-70443/40			13:38																				
CCB 480-70443/41			13:40																				
ZZZZZZ			13:42																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 06/28/2012 12:32 End Date: 06/28/2012 14:08

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			13:43																				
ZZZZZZ			13:45																				
ZZZZZZ			13:47																				
ZZZZZZ			13:49																				
ZZZZZZ			13:50																				
ZZZZZZ			13:52																				
ZZZZZZ			13:54																				
ZZZZZZ			13:56																				
ZZZZZZ			13:58																				
CCV 480-70443/52			13:59																				
CCB 480-70443/53			14:01																				
ZZZZZZ			14:03																				
CRA 480-70443/55			14:05																				
CCV 480-70443/56			14:06																				
CCB 480-70443/57			14:08																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 06/28/2012 14:47 End Date: 06/28/2012 15:28

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-70451/1	1		14:47	X																			
ICB 480-70451/2	1		14:49	X																			
CRA 480-70451/3	1		14:51	X																			
CCV 480-70451/4	1		14:53	X																			
CCB 480-70451/5	1		14:55	X																			
LB 480-70203/1-B	1	P	14:56	X																			
MB 480-70365/2-A	1	T	14:58	X																			
LCS 480-70365/3-A	1	T	14:59	X																			
480-21774-1	1	P	15:01	X																			
480-21774-1 SD	5	P	15:03	X																			
480-21774-1 MS	1	P	15:06	X																			
480-21774-1 MSD	1	P	15:08	X																			
LB2 480-70240/2-B	1	P	15:09	X																			
MB 480-70368/2-A	1	T	15:11	X																			
LCS 480-70368/3-A	1	T	15:13	X																			
CCV 480-70451/16	1		15:14	X																			
CCB 480-70451/17	1		15:16	X																			
480-21775-1	1	P	15:18	X																			
480-21775-1 SD	5	P	15:20	X																			
480-21775-1 MS	1	P	15:22	X																			
480-21775-1 MSD	1	P	15:23	X																			
CRA 480-70451/22			15:25																				
CCV 480-70451/23	1		15:27	X																			
CCB 480-70451/24	1		15:28	X																			

Prep Types

P = TCLP

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 06/26/2012 14:18 End Date: 06/26/2012 14:55

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-70091/1	1		14:18	X																			
ICB 480-70091/2	1		14:19	X																			
CRA 480-70091/3	1		14:21	X																			
CCV 480-70091/4	1		14:22	X																			
CCB 480-70091/5	1		14:24	X																			
MB 480-70041/1-A	1	T	14:25	X																			
LCSSRM 480-70041/2-A	1	T	14:26	X																			
ZZZZZZ			14:28																				
ZZZZZZ			14:29																				
ZZZZZZ			14:30																				
ZZZZZZ			14:32																				
ZZZZZZ			14:33																				
ZZZZZZ			14:35																				
ZZZZZZ			14:36																				
ZZZZZZ			14:37																				
CCV 480-70091/16	1		14:38	X																			
CCB 480-70091/17	1		14:39	X																			
480-21773-1	20	T	14:48	X																			
480-21773-2	5	T	14:49	X																			
ZZZZZZ			14:51																				
480-21773-3	1	T	14:53	X																			
CCV 480-70091/22	1		14:54	X																			
CCB 480-70091/23	1		14:55	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 06/27/2012 15:03 End Date: 06/27/2012 16:31

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-70327/1	1		15:03	X																			
ICB 480-70327/2	1		15:04	X																			
CRA 480-70327/3	1		15:06	X																			
CCV 480-70327/4	1		15:08	X																			
CCB 480-70327/5	1		15:10	X																			
MB 480-70235/1-A	1	T	15:12	X																			
LCSSRM 480-70235/2-A	1	T	15:14	X																			
ZZZZZZ			15:15																				
ZZZZZZ			15:17																				
ZZZZZZ			15:19																				
ZZZZZZ			15:20																				
ZZZZZZ			15:22																				
ZZZZZZ			15:24																				
ZZZZZZ			15:26																				
480-21847-6	20	T	15:28	X																			
CCV 480-70327/16	1		15:29	X																			
CCB 480-70327/17	1		15:31	X																			
ZZZZZZ			15:33																				
ZZZZZZ			15:35																				
ZZZZZZ			15:36																				
ZZZZZZ			15:38																				
ZZZZZZ			15:40																				
ZZZZZZ			15:42																				
ZZZZZZ			15:44																				
ZZZZZZ			15:46																				
ZZZZZZ			15:47																				
CCV 480-70327/27	1		15:49	X																			
CCB 480-70327/28	1		15:51	X																			
480-21847-1	1	T	15:59	X																			
480-21847-2	1	T	16:01	X																			
480-21847-3	1	T	16:02	X																			
480-21847-4	1	T	16:04	X																			
480-21847-5	1	T	16:06	X																			
ZZZZZZ			16:08																				
480-21847-7	1	T	16:10	X																			
480-21847-8	1	T	16:11	X																			
480-21847-9	1	T	16:13	X																			
480-21847-9 SD	5	T	16:15	X																			
CCV 480-70327/39	1		16:17	X																			
CCB 480-70327/40	1		16:18	X																			
480-21847-9 MS	1	T	16:20	X																			
480-21847-9 MSD	1	T	16:22	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 06/27/2012 15:03 End Date: 06/27/2012 16:31

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
480-21847-10	1	T	16:23	X																			
480-21847-11	1	T	16:25	X																			
480-21847-12	1	T	16:27	X																			
CCV 480-70327/46	1		16:29	X																			
CCB 480-70327/47	1		16:31	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 06/28/2012 15:33 End Date: 06/28/2012 17:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-70464/1	1		15:33	X																			
ICB 480-70464/2	1		15:34	X																			
CRA 480-70464/3	1		15:35	X																			
CCV 480-70464/4	1		15:37	X																			
CCB 480-70464/5	1		15:38	X																			
MB 480-70418/1-A	1	T	15:39	X																			
LCSSRM 480-70418/2-A	1	T	15:41	X																			
ZZZZZZ			15:42																				
ZZZZZZ			15:43																				
ZZZZZZ			15:45																				
ZZZZZZ			15:46																				
ZZZZZZ			15:47																				
ZZZZZZ			15:48																				
ZZZZZZ			15:50																				
ZZZZZZ			15:51																				
CCV 480-70464/16	1		15:52	X																			
CCB 480-70464/17	1		15:53	X																			
ZZZZZZ			15:55																				
ZZZZZZ			15:57																				
ZZZZZZ			15:58																				
ZZZZZZ			16:00																				
ZZZZZZ			16:02																				
ZZZZZZ			16:03																				
ZZZZZZ			16:04																				
ZZZZZZ			16:05																				
ZZZZZZ			16:06																				
ZZZZZZ			16:07																				
CCV 480-70464/28	1		16:08	X																			
CCB 480-70464/29	1		16:10	X																			
ZZZZZZ			16:11																				
ZZZZZZ			16:12																				
480-21775-1	1	T	16:13	X																			
ZZZZZZ			16:14																				
ZZZZZZ			16:15																				
ZZZZZZ			16:17																				
ZZZZZZ			16:18																				
ZZZZZZ			16:19																				
ZZZZZZ			16:20																				
ZZZZZZ			16:21																				
CCV 480-70464/40	1		16:23	X																			
CCB 480-70464/41	1		16:24	X																			
ZZZZZZ			16:25																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 06/28/2012 15:33 End Date: 06/28/2012 17:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:27																				
ZZZZZZ			16:28																				
ZZZZZZ			16:29																				
ZZZZZZ			16:30																				
ZZZZZZ			16:32																				
ZZZZZZ			16:34																				
ZZZZZZ			16:36																				
ZZZZZZ			16:37																				
ZZZZZZ			16:38																				
CCV 480-70464/52			16:39																				
CCB 480-70464/53			16:40																				
ZZZZZZ			16:42																				
ZZZZZZ			16:43																				
ZZZZZZ			16:44																				
ZZZZZZ			16:45																				
ZZZZZZ			16:47																				
ZZZZZZ			16:48																				
ZZZZZZ			16:50																				
CCV 480-70464/61	1		16:51	X																			
CCB 480-70464/62	1		16:52	X																			
ZZZZZZ			16:56																				
ZZZZZZ			16:57																				
ZZZZZZ			16:59																				
ZZZZZZ			17:00																				
ZZZZZZ			17:01																				
ZZZZZZ			17:03																				
CCV 480-70464/69	1		17:04	X																			
CCB 480-70464/70	1		17:06	X																			

Prep Types

T = Total/NA

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧

Protocol hgppb

Dataset/Proto h06282w1/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.64496e-5

C -3.26476e-2

rho .999885

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs. 606623

Accepted

New

Include S1 Rep 1☑ 2☑ 3☑ 4☐ 5☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.054	-.054	-1271	2879	1411	-4315	-911
02	.20000	.200	-.000	14115	3.99%	14419	14459	13465
03	1.0000	1.01	.012	63497	1.8%	64654	63470	62365
04	2.0000	1.99	-.010	122967	0.63%	122206	122954	123743
05	5.0000	5.11	.106	312386	0.22%	312929	312598	311631
06	10.000	9.95	-.054	606623	0.56%	610203	606257	603409

Ready NUM

L2
6/28/12

70391

Cal: H06282C1

Run: H06282W1

Batches: 70345
70346

Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

70391

*** Check Standard: 2 Ck2ICV Seq: 1 12:32:34 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.9	2.94	3.00	ppb	.000

*** Check Standard: 1 Ck1ICB Seq: 2 12:34:09 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.026	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 12:35:50 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.0	.186	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 12:37:27 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.8	1.98	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 12:39:04 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.025	.200	ppb	.000

*** Sample ID: Seq: 6 12:40:50 28 Jun 12 HG
mb 480-70345/1-a

Hg	-.023	ppb	.000	-.023

*** Sample ID: Seq: 7 12:43:11 28 Jun 12 HG
lcs 480-70345/2-a

Hg	4.05	ppb	.000	4.05

*** Sample ID: Seq: 8 12:44:46 28 Jun 12 HG
480-21880-c-2-a

Hg	-.006	ppb	.000	-.006

*** Sample ID: Seq: 9 12:46:23 28 Jun 12 HG
480-21901-d-1-a

Hg	-.016	ppb	.000	-.016

*** Sample ID: Seq: 10 12:48:09 28 Jun 12 HG
480-21901-d-1-a SD@5

Hg	-.020	ppb	.000	-.020

*** Sample ID: Seq: 11 12:50:16 28 Jun 12 HG
480-21901-d-1-b ms

Hg	4.02	ppb	.000	4.02

*** Sample ID: Seq: 12 12:51:53 28 Jun 12 HG
480-21901-d-1-c msd

Hg	3.91	ppb	.000	3.91

*** Sample ID: Seq: 13 12:53:43 28 Jun 12 HG
480-21901-d-2-a

Hg	-.026	ppb	.000	-.026

*** Sample ID: Seq: 14 12:55:31 28 Jun 12 HG
480-21901-d-3-a

Hg	-.024	ppb	.000	-.024

*** Sample ID: Seq: 15 12:57:18 28 Jun 12 HG
480-21901-d-4-a

Hg	-.019	ppb	.000	-.019

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 12:59:14 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.2	1.98	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 13:00:50 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.003	.200	ppb	.000

*** Sample ID: Seq: 18 13:02:26 28 Jun 12 HG
480-21901-d-5-a
Hg -.019 ppb .000 -.019

*** Sample ID: Seq: 19 13:04:01 28 Jun 12 HG
480-21901-d-6-a
Hg -.010 ppb .000 -.010

*** Sample ID: Seq: 20 13:05:36 28 Jun 12 HG
480-21901-d-7-a
Hg -.019 ppb .000 -.019

*** Sample ID: Seq: 21 13:07:12 28 Jun 12 HG
480-21904-e-1-a
Hg .035 ppb .000 .035

*** Sample ID: Seq: 22 13:08:48 28 Jun 12 HG
480-21904-e-2-a
Hg .631 ppb .000 .631

*** Sample ID: Seq: 23 13:10:43 28 Jun 12 HG
480-21898-e-1-a
Hg .033 ppb .000 .033

*** Sample ID: Seq: 24 13:12:19 28 Jun 12 HG
480-21893-j-1-a
Hg .026 ppb .000 .026

*** Sample ID: Seq: 25 13:13:56 28 Jun 12 HG
480-21847-a-13-a
Hg .005 ppb .000 .005

*** Sample ID: Seq: 26 13:15:44 28 Jun 12 HG
480-21860-f-1-b
Hg .019 ppb .000 .019

*** Sample ID: Seq: 27 13:17:21 28 Jun 12 HG
480-21860-f-2-b
Hg .006 ppb .000 .006

*** Check Standard: 3 Ck3CCV Seq: 28 13:18:57 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.3	1.97	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 13:20:35 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.014	.200	ppb	.000

*** Sample ID: Seq: 30 13:22:21 28 Jun 12 HG
480-21855-k-1-b
Hg -.076 ppb .000 -.076

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 13:24:02 28 Jun 12 HG
480-21874-s-1-b
Hg -.056 ppb .000 -.056

*** Sample ID: Seq: 32 13:25:39 28 Jun 12 HG
480-21842-a-1-b
Hg -.024 ppb .000 -.024

*** Sample ID: Seq: 33 13:27:15 28 Jun 12 HG
mb 480-70346/1-a
Hg -.035 ppb .000 -.035

*** Sample ID: Seq: 34 13:28:51 28 Jun 12 HG
lcs 480-70346/2-a
Hg 3.94 ppb .000 3.94

*** Sample ID: Seq: 35 13:30:27 28 Jun 12 HG
480-21834-e-1-b
Hg -.060 ppb .000 -.060

*** Sample ID: Seq: 36 13:32:03 28 Jun 12 HG
480-21834-e-2-d
Hg -.028 ppb .000 -.028

*** Sample ID: Seq: 37 13:33:45 28 Jun 12 HG
480-21834-e-2-d SD@5
Hg -.040 ppb .000 -.040

*** Sample ID: Seq: 38 13:35:22 28 Jun 12 HG
480-21834-e-2-e ms
Hg 4.01 ppb .000 4.01

*** Sample ID: Seq: 39 13:37:01 28 Jun 12 HG
480-21834-e-2-f msd
Hg 3.97 ppb .000 3.97

*** Check Standard: 3 Ck3CCV Seq: 40 13:38:37 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.8	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 41 13:40:13 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.038	.200	ppb	.000

*** Sample ID: Seq: 42 13:42:09 28 Jun 12 HG
480-21834-e-3-c
Hg -.027 ppb .000 -.027

*** Sample ID: Seq: 43 13:43:55 28 Jun 12 HG
480-21834-e-4-c
Hg -.029 ppb .000 -.029

*** Sample ID: Seq: 44 13:45:52 28 Jun 12 HG
480-21834-e-5-c
Hg -.023 ppb .000 -.023

*** Sample ID: Seq: 45 13:47:29 28 Jun 12 HG
480-21834-e-6-c
Hg -.023 ppb .000 -.023

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 46 13:49:06 28 Jun 12 HG
480-21834-e-7-c

Hg	-.019	ppb	.000	-.019

*** Sample ID: Seq: 47 13:50:57 28 Jun 12 HG
480-21834-e-8-c

Hg	-.018	ppb	.000	-.018

*** Sample ID: Seq: 48 13:52:54 28 Jun 12 HG
480-21834-e-9-c

Hg	-.022	ppb	.000	-.022

*** Sample ID: Seq: 49 13:54:42 28 Jun 12 HG
480-21834-e-10-c

Hg	-.017	ppb	.000	-.017

*** Sample ID: Seq: 50 13:56:33 28 Jun 12 HG
480-21834-e-11-c

Hg	-.022	ppb	.000	-.022

*** Sample ID: Seq: 51 13:58:09 28 Jun 12 HG
480-21834-e-12-c

Hg	-.011	ppb	.000	-.011

*** Check Standard: 3 Ck3CCV Seq: 52 13:59:45 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.9	1.98	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 53 14:01:21 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.031	.200	ppb	.000

*** Sample ID: Seq: 54 14:03:27 28 Jun 12 HG
480-21885-e-1-b

Hg	.018	ppb	.000	.018

*** Check Standard: 4 Ck4CRA Seq: 55 14:05:03 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.7	.187	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 56 14:06:48 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.7	1.97	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 57 14:08:24 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.032	.200	ppb	.000

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧ ?

Protocol hgppb | BUSY | Dataset/Proto h06282tc/hgppb

L2
6/28/12

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs

A
B 1.64496e-5
C -3.26476e-2
rho .999885

☑ Calibrated
☑ Accepted
Accept
Type Linear

Rel. Abs.
606623
Accepted
New

Include S7 Rep 1 2 3 4 5

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.054	-.054	-1271	2879	1411	-4315	-911
02	.20000	.200	-.000	14115	3.99%	14419	14459	13465
03	1.0000	1.01	.012	63497	1.8%	64654	63470	62365
04	2.0000	1.99	-.010	122967	0.63%	122206	122954	123743
05	5.0000	5.11	.106	312386	0.22%	312929	312598	311631
06	10.000	9.95	-.054	606623	0.56%	610203	606257	603409

70391

Ready | CAP NUM

Cal: H06282C1

Run: H06282TC

Batches: 70365
70368

Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

70391

*** Check Standard: 2 Ck2ICV Seq: 1 14:47:49 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.9	2.91	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 14:49:26 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.021	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 14:51:25 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		91.3	.183	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 14:53:12 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.0	1.98	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 14:55:01 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.032	.200	ppb	.000

*** Sample ID: Seq: 6 14:56:38 28 Jun 12 HG
LB 480-70203/1-B

Hg	-.014	ppb	.000	-.014

*** Sample ID: Seq: 7 14:58:14 28 Jun 12 HG
MB 480-70365/2-A

Hg	-.047	ppb	.000	-.047

*** Sample ID: Seq: 8 14:59:50 28 Jun 12 HG
LCS 480-70365/3-A

Hg	3.85	ppb	.000	3.85

*** Sample ID: Seq: 9 15:01:41 28 Jun 12 HG
480-21774-A-1-B

Hg	.013	ppb	.000	.013

*** Sample ID: Seq: 10 15:03:59 28 Jun 12 HG
480-21774-A-1-B sd@5

Hg	-.029	ppb	.000	-.029

*** Sample ID: Seq: 11 15:06:27 28 Jun 12 HG
480-21774-A-1-C MS

Hg	3.78	ppb	.000	3.78

*** Sample ID: Seq: 12 15:08:16 28 Jun 12 HG
480-21774-A-1-D MSD

Hg	3.99	ppb	.000	3.99

*** Sample ID: Seq: 13 15:09:59 28 Jun 12 HG
lb2 480-70240/2-b

Hg	-.035	ppb	.000	-.035

*** Sample ID: Seq: 14 15:11:42 28 Jun 12 HG
mb 480-70368/2-a

Hg	-.030	ppb	.000	-.030

*** Sample ID: Seq: 15 15:13:22 28 Jun 12 HG
lcs 480-70368/3-a

Hg	3.88	ppb	.000	3.88

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 15:14:58 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.3	1.93	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 15:16:46 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.031	.200	ppb	.000

*** Sample ID: Seq: 18 15:18:42 28 Jun 12 HG
480-21775-b-1-c

Hg	.324	ppb	.000	.324

*** Sample ID: Seq: 19 15:20:21 28 Jun 12 HG
480-21775-b-1-c SD@5

Hg	.081	ppb	.000	.081

*** Sample ID: Seq: 20 15:22:01 28 Jun 12 HG
480-21775-b-1-d ms

Hg	4.23	ppb	.000	4.23

*** Sample ID: Seq: 21 15:23:49 28 Jun 12 HG
480-21775-b-1-e msd

Hg	4.05	ppb	.000	4.05

*** Check Standard: 4 Ck4CRA Seq: 22 15:25:26 28 Jun 12 HG

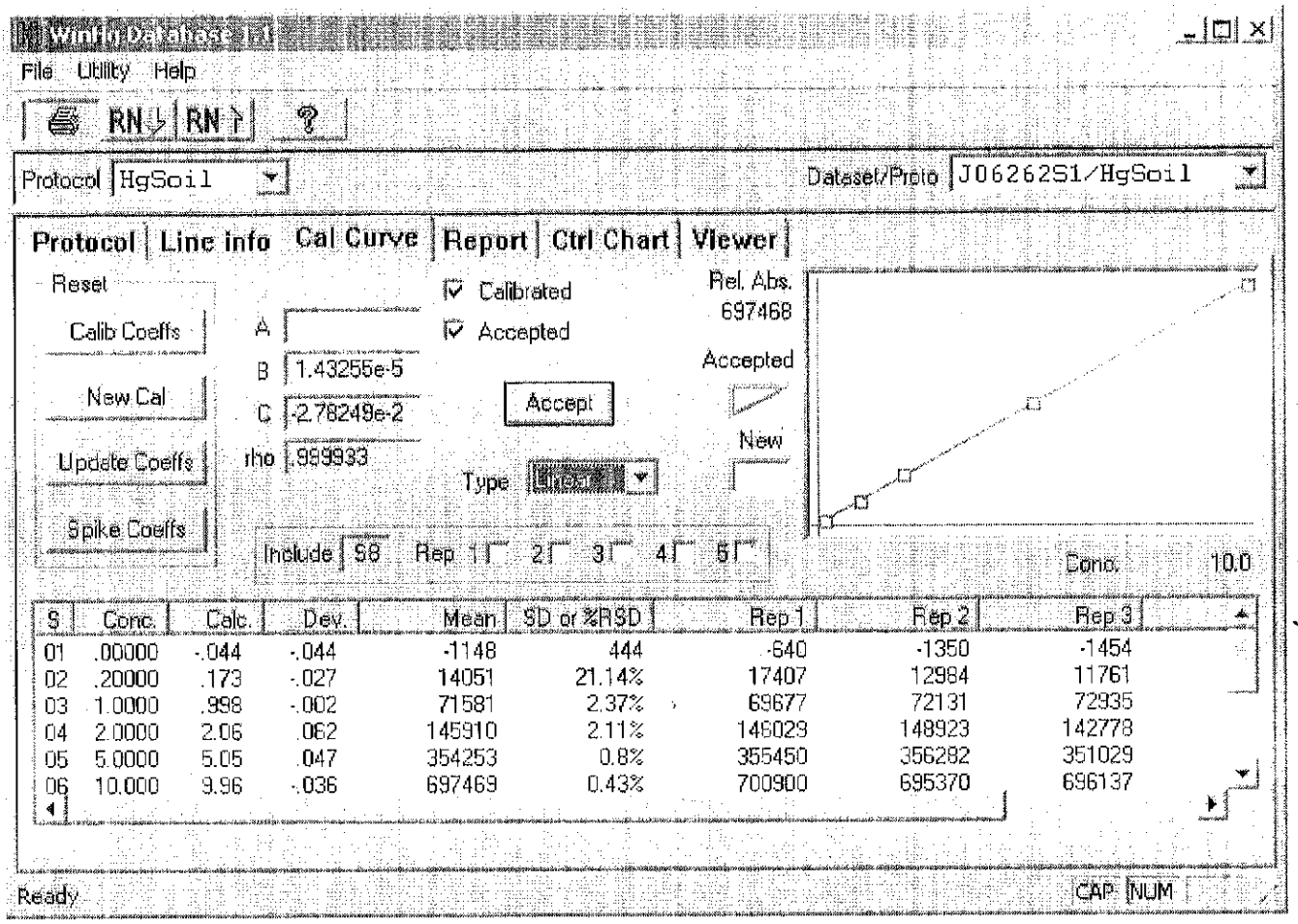
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		83.0	.166	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 23 15:27:01 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.0	1.96	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 24 15:28:37 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.028	.200	ppb	.000



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.044	-.044	-1148	444	-640	-1350	-1454
02	.20000	.173	-.027	14051	21.14%	17407	12984	11761
03	1.0000	.998	-.002	71581	2.37%	69677	72131	72935
04	2.0000	2.06	.062	145910	2.11%	146029	148923	142778
05	5.0000	5.05	.047	354253	0.8%	355450	356282	351029
06	10.000	9.96	-.036	697469	0.43%	700900	695370	696137

L3
6/26/12

70062

Cal: J06262C2

Run: J06262S1

Batches: 70041

POST-RUN REPORT

Line Conc. Units SD/RSD 1 2 3 4 5

70062

*** Check Standard: 2 Ck2ICV Seq: 1 14:18:13 26 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.	3.19	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 14:19:19 26 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.051	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 14:21:31 26 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	.202	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 14:22:47 26 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.	2.10	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 14:24:36 26 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.013	.200	ppb	.000

*** Sample ID: Seq: 6 14:25:41 26 Jun 12 HG
mb 480-70041/1-a
Hg -.010 ppb .000 -.010

*** Sample ID: Seq: 7 14:26:48 26 Jun 12 HG
lcssrm 480-70041/2-a
Hg 4.29 ppb .000 4.29

*** Sample ID: Seq: 8 14:28:16 26 Jun 12 HG
480-21751-e-1-a
Hg .158 ppb .000 .158

*** Sample ID: Seq: 9 14:29:26 26 Jun 12 HG
480-21751-e-1-a SD@5
Hg -.014 ppb .000 -.014

*** Sample ID: Seq: 10 14:30:55 26 Jun 12 HG
480-21751-e-1-b ms
Hg 4.20 ppb .000 4.20

*** Sample ID: Seq: 11 14:32:51 26 Jun 12 HG
480-21751-e-1-c msd
Hg 4.21 ppb .000 4.21

*** Sample ID: Seq: 12 14:33:59 26 Jun 12 HG
480-21748-b-1-b
Hg .105 ppb .000 .105

*** Sample ID: Seq: 13 14:35:16 26 Jun 12 HG
480-21773-a-1-a@100
RL 1:20 Hg .397 ppb .000 .397

*** Sample ID: Seq: 14 14:36:23 26 Jun 12 HG
480-21773-a-2-a@100
1:5 Hg .056 ppb .000 .056

*** Sample ID: Seq: 15 14:37:30 26 Jun 12 HG
480-21773-a-3-a@100
1:5 Hg .006 ppb .000 .006

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 14:38:47 26 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.	2.10	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 14:39:53 26 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.111	.200	ppb	.000

*** Sample ID: Seq: 18 14:48:33 26 Jun 12 HG
480-21773-a-1-a@20

Hg	1.58	ppb	.000	1.58

*** Sample ID: Seq: 19 14:49:41 26 Jun 12 HG
480-21773-a-2-a@5

Hg	1.54	ppb	.000	1.54

*** Sample ID: Seq: 20 14:51:01 26 Jun 12 HG
480-21773-a-3-a@5

Re ST.

Hg	-.025	ppb	.000	-.025

*** Sample ID: Seq: 21 14:53:10 26 Jun 12 HG
480-21773-a-3-a

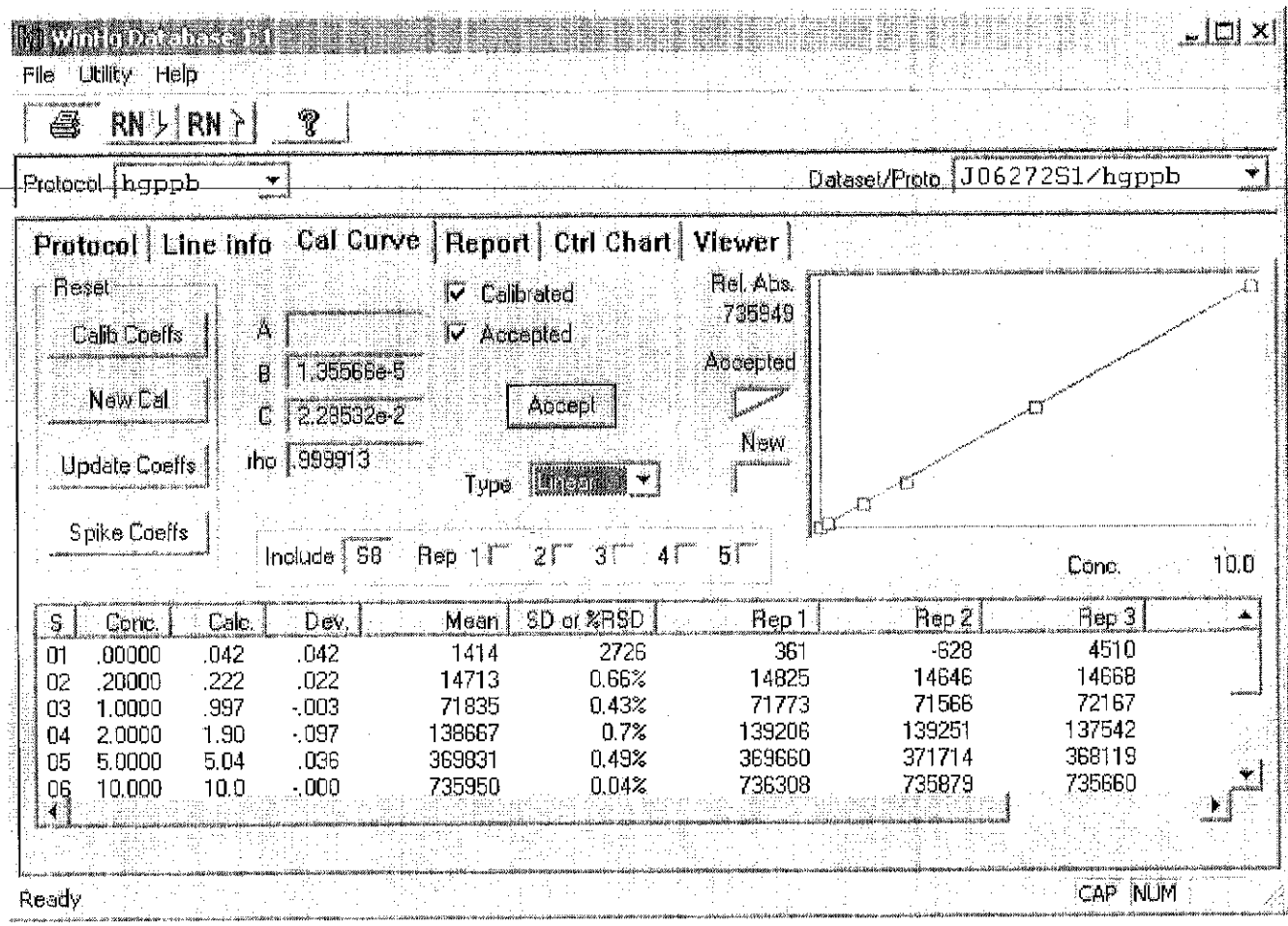
Hg	.097	ppb	.000	.097

*** Check Standard: 3 Ck3CCV Seq: 22 14:54:36 26 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		104.	2.07	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 23 14:55:53 26 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.030	.200	ppb	.000



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.042	.042	1414	2726	361	-628	4510
02	.20000	.222	.022	14713	0.66%	14825	14646	14668
03	1.0000	.997	-.003	71835	0.43%	71773	71566	72167
04	2.0000	1.90	-.097	138667	0.7%	139206	139251	137542
05	5.0000	5.04	.036	369831	0.49%	369660	371714	368119
06	10.000	10.0	-.000	735950	0.04%	736308	735879	735660

L3

6/27/12

70205

Cal: J06272C2

Run: J06272S1

Batches: 70235

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

70205

*** Check Standard: 2 Ck2ICV Seq: 1 15:03:19 27 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	L	92.5	2.77	3.00	ppb	.000

OK 7471

*** Check Standard: 1 Ck1CCB Seq: 2 15:04:57 27 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.008	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 15:06:55 27 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		108.	.215	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 15:08:30 27 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.6	1.85	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 15:10:25 27 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.021	.200	ppb	.000

*** Sample ID: Seq: 6 15:12:06 27 Jun 12 HG
mb 480-70235/1-a

Hg	.060	ppb	.000	.060

*** Sample ID: Seq: 7 15:14:21 27 Jun 12 HG
lcssrm 480-70235/2-a

Hg	3.63	ppb	.000	3.63

*** Sample ID: Seq: 8 15:15:55 27 Jun 12 HG
480-21824-a-1-b

Hg	.069	ppb	.000	.069

*** Sample ID: Seq: 9 15:17:35 27 Jun 12 HG
480-21751-b-1-1

Hg	.217	ppb	.000	.217

*** Sample ID: Seq: 10 15:19:11 27 Jun 12 HG
480-21847-a-1-a@20

RE ST.

Hg	.043	ppb	.000	.043

*** Sample ID: Seq: 11 15:20:57 27 Jun 12 HG
480-21847-a-2-a@20

Hg	.044	ppb	.000	.044

*** Sample ID: Seq: 12 15:22:43 27 Jun 12 HG
480-21847-a-3-a@20

Hg	.076	ppb	.000	.076

*** Sample ID: Seq: 13 15:24:31 27 Jun 12 HG
480-21847-a-4-a@20

Hg	.044	ppb	.000	.044

*** Sample ID: Seq: 14 15:26:27 27 Jun 12 HG
480-21847-a-5-a@20

Hg	.065	ppb	.000	.065

*** Sample ID: Seq: 15 15:28:04 27 Jun 12 HG
480-21847-a-6-a@20

Hg	1.29	ppb	.000	1.29

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 15:29:46 27 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.6	1.89	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 15:31:36 27 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.004	.200	ppb	.000

*** Sample ID: Seq: 18 15:33:23 27 Jun 12 HG
480-21847-a-7-a@20

RR ST.

Hg	.316	ppb	.000	.316

*** Sample ID: Seq: 19 15:35:00 27 Jun 12 HG
480-21847-a-8-a@20

Hg	.105	ppb	.000	.105

*** Sample ID: Seq: 20 15:36:35 27 Jun 12 HG
480-21847-a-9-a@20

Hg	.042	ppb	.000	.042

*** Sample ID: Seq: 21 15:38:16 27 Jun 12 HG
21847-a-9-a@100

Hg	.022	ppb	.000	.022

*** Sample ID: Seq: 22 15:40:07 27 Jun 12 HG
21847-a-9-b ms@20

Hg	.223	ppb	.000	.223

*** Sample ID: Seq: 23 15:42:03 27 Jun 12 HG
21847-a-9-c msd@20

Hg	.265	ppb	.000	.265

*** Sample ID: Seq: 24 15:44:03 27 Jun 12 HG
480-21847-a-10-a@20

Hg	.037	ppb	.000	.037

*** Sample ID: Seq: 25 15:46:00 27 Jun 12 HG
480-21847-a-11-a@20

Hg	.082	ppb	.000	.082

*** Sample ID: Seq: 26 15:47:42 27 Jun 12 HG
480-21847-a-12-a@20

Hg	.051	ppb	.000	.051

*** Check Standard: 3 Ck3CCV Seq: 27 15:49:17 27 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.2	1.86	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 28 15:51:35 27 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.016	.200	ppb	.000

*** Sample ID: Seq: 29 15:59:34 27 Jun 12 HG
480-21847-a-1-a

Hg	.099	ppb	.000	.099

*** Sample ID: Seq: 30 16:01:10 27 Jun 12 HG
480-21847-a-2-a

Hg	.065	ppb	.000	.065

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 16:02:56 27 Jun 12 HG
480-21847-a-3-a
Hg .077 ppb .000 .077

*** Sample ID: Seq: 32 16:04:35 27 Jun 12 HG
480-21847-a-4-a
Hg .092 ppb .000 .092

*** Sample ID: Seq: 33 16:06:30 27 Jun 12 HG
480-21847-a-5-a
Hg .216 ppb .000 .216

*** Sample ID: Seq: 34 16:08:47 27 Jun 12 HG
480-21847-a-6-a
Hg 21.0 H ppb .000 21.0

*** Sample ID: Seq: 35 16:10:23 27 Jun 12 HG
480-21847-a-7-a
Hg 5.07 ppb .000 5.07

*** Sample ID: Seq: 36 16:11:59 27 Jun 12 HG
480-21847-a-8-a
Hg .382 ppb .000 .382

*** Sample ID: Seq: 37 16:13:37 27 Jun 12 HG
480-21847-a-9-a
Hg .092 ppb .000 .092

*** Sample ID: Seq: 38 16:15:33 27 Jun 12 HG
480-21847-a-9-a SD@5
Hg .052 ppb .000 .052

*** Check Standard: 3 Ck3CCV Seq: 39 16:17:08 27 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.2	1.86	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 40 16:18:47 27 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.006	.200	ppb	.000

*** Sample ID: Seq: 41 16:20:34 27 Jun 12 HG
480-21847-a-9-b ms
Hg 3.75 ppb .000 3.75

*** Sample ID: Seq: 42 16:22:11 27 Jun 12 HG
480-21847-a-9-c msd
Hg 3.78 ppb .000 3.78

*** Sample ID: Seq: 43 16:23:58 27 Jun 12 HG
480-21847-a-10-a
Hg .098 ppb .000 .098

*** Sample ID: Seq: 44 16:25:44 27 Jun 12 HG
480-21847-a-11-a
Hg .149 ppb .000 .149

*** Sample ID: Seq: 45 16:27:29 27 Jun 12 HG
480-21847-a-12-a
Hg .230 ppb .000 .230

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 46 16:29:21 27 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.6	1.87	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 47 16:31:17 27 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.041	.200	ppb	.000

L3

6/28/12

Working Database 1.1

File Utility Help

Protocol HgSoil

Dataset/Proto J06282S1/HgSoil

Protocol | Line Info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.46412e-5

C -1.14343e-2

rho .999842

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs. 680163

Accepted

New

Include S4 Rep 1☑ 2☑ 3☑ 4☐ 5☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.002	-.002	626	422	139	850	888
02	.20000	.209	.009	15083	5.59%	14697	16051	14502
03	1.0000	.975	-.025	67373	3.25%	68738	68535	64844
04	2.0000	1.94	-.058	133398	1.12%	133682	134720	131784
05	5.0000	5.13	.129	351113	1.57%	355860	352391	345088
06	10.000	9.95	-.053	680164	1.13%	684169	671327	684996

Ready

CAP NUM

70392

Cal: J06282CS

Run: J06282S1

Batches: 70418
70417

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

70392

*** Check Standard: 2 Ck2ICV Seq: 1 15:33:10 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.0	2.79	3.00	ppb	.000

*** Check Standard: 1 Ck1ICB Seq: 2 15:34:30 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.038	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 15:35:36 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.1	.188	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 15:37:04 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.0	1.88	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 15:38:22 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.018	.200	ppb	.000

*** Sample ID: Seq: 6 15:39:27 28 Jun 12 HG
mb 480-70418/1-a

Hg	.005	ppb	.000	.005

*** Sample ID: Seq: 7 15:41:03 28 Jun 12 HG
lcssrm 480-70418/2-a

Hg	3.48	ppb	.000	3.48

*** Sample ID: Seq: 8 15:42:10 28 Jun 12 HG
480-21915-a-1-a

RR 1:20

Hg	25.4	H ppb	.000	25.4

*** Sample ID: Seq: 9 15:43:26 28 Jun 12 HG
480-21915-a-2-a

Hg	26.0	H ppb	.000	26.0

*** Sample ID: Seq: 10 15:45:11 28 Jun 12 HG
480-21915-a-2-a SD@5

1:100

Hg	5.84	ppb	.000	5.84

~~*** Sample ID: Seq: 11 15:46:18 28 Jun 12 HG~~
480-21915-a-2-b ms

RR 1:20

Hg	30.1	H ppb	.000	30.1

*** Sample ID: Seq: 12 15:47:35 28 Jun 12 HG
480-21915-a-2-c msd

Hg	32.4	H ppb	.000	32.4

*** Sample ID: Seq: 13 15:48:45 28 Jun 12 HG
480-21915-a-3-a

Hg	1.96	ppb	.000	1.96

*** Sample ID: Seq: 14 15:50:02 28 Jun 12 HG
480-21915-a-4-a

Hg	.805	ppb	.000	.805

*** Sample ID: Seq: 15 15:51:31 28 Jun 12 HG
480-21915-a-5-a

Hg	3.56	ppb	.000	3.56

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 3 Ck3CCV Seq: 16 15:52:50 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.9	1.88	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 15:53:56 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.013	.200	ppb	.000

*** Sample ID: Seq: 18 15:55:56 28 Jun 12 HG
480-21915-a-6-a
Hg .486 ppb .000 .486

*** Sample ID: Seq: 19 15:57:02 28 Jun 12 HG
480-21915-a-7-a
Hg .052 ppb .000 .052

*** Sample ID: Seq: 20 15:58:59 28 Jun 12 HG
480-21915-a-8-a
Hg .163 ppb .000 .163

*** Sample ID: Seq: 21 16:00:06 28 Jun 12 HG
RR 1:20
480-21915-a-9-a
Hg 55.5 H ppb .000 55.5

*** Sample ID: Seq: 22 16:02:01 28 Jun 12 HG
480-21915-a-10-a
Hg 1.36 ppb .000 1.36

*** Sample ID: Seq: 23 16:03:10 28 Jun 12 HG
480-21915-a-11-a
Hg 7.04 ppb .000 7.04

*** Sample ID: Seq: 24 16:04:27 28 Jun 12 HG
480-21915-a-12-a
Hg .083 ppb .000 .083

*** Sample ID: Seq: 25 16:05:37 28 Jun 12 HG
480-21915-a-13-a
Hg .359 ppb .000 .359

*** Sample ID: Seq: 26 16:06:46 28 Jun 12 HG
480-21915-a-14-a
Hg .661 ppb .000 .661

*** Sample ID: Seq: 27 16:07:53 28 Jun 12 HG
480-21915-a-15-a
Hg .036 ppb .000 .036

*** Check Standard: 3 Ck3CCV Seq: 28 16:08:59 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.2	1.84	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 16:10:09 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.015	.200	ppb	.000

*** Sample ID: Seq: 30 16:11:15 28 Jun 12 HG
480-21915-a-16-a
Hg .084 ppb .000 .084

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 16:12:21 28 Jun 12 HG
480-21915-a-17-a
Hg .146 ppb .000 .146

*** Sample ID: Seq: 32 16:13:30 28 Jun 12 HG
480-21775-a-1-a
Hg 3.75 ppb .000 3.75

*** Sample ID: Seq: 33 16:14:40 28 Jun 12 HG
mb 480-70417/1-a
Hg -.014 ppb .000 -.014

*** Sample ID: Seq: 34 16:15:50 28 Jun 12 HG
lcssrm 480-70417/2-a
Hg 3.65 ppb .000 3.65

*** Sample ID: Seq: 35 16:17:00 28 Jun 12 HG
480-21829-a-1-c
Hg -.039 ppb .000 -.039

*** Sample ID: Seq: 36 16:18:10 28 Jun 12 HG
480-21829-a-2-c
Hg -.011 ppb .000 -.011

*** Sample ID: Seq: 37 16:19:38 28 Jun 12 HG
480-21829-a-3-c
Hg -.011 ppb .000 -.011

*** Sample ID: Seq: 38 16:20:45 28 Jun 12 HG
480-21829-a-4-c
Hg -.013 ppb .000 -.013

*** Sample ID: Seq: 39 16:21:51 28 Jun 12 HG
480-21829-a-5-g
Hg .001 ppb .000 .001

*** Check Standard: 3 Ck3CCV Seq: 40 16:23:03 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.1	1.86	2.00	ppb	.000

~~*** Check Standard: 1 Ck1CCB Seq: 41 16:24:31 28 Jun 12 HG~~

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.031	.200	ppb	.000

*** Sample ID: Seq: 42 16:25:56 28 Jun 12 HG
480-21829-a-5-g SD@5
Hg -.001 ppb .000 -.001

*** Sample ID: Seq: 43 16:27:04 28 Jun 12 HG
480-21829-a-5-h ms
Hg 3.53 ppb .000 3.53

*** Sample ID: Seq: 44 16:28:21 28 Jun 12 HG
480-21829-a-5-i msd
Hg 3.57 ppb .000 3.57

*** Sample ID: Seq: 45 16:29:32 28 Jun 12 HG
480-21829-a-6-c
Hg -.038 ppb .000 -.038

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 46 16:30:40 28 Jun 12 HG
480-21829-a-7-c

Hg	.009	ppb	.000	.009

*** Sample ID: Seq: 47 16:32:06 28 Jun 12 HG
480-21829-a-8-c

Hg	.001	ppb	.000	.001

*** Sample ID: Seq: 48 16:34:37 28 Jun 12 HG
480-21829-a-9-c

Hg	-.035	ppb	.000	-.035

*** Sample ID: Seq: 49 16:36:08 28 Jun 12 HG
480-21829-a-10-c

Hg	-.040	ppb	.000	-.040

*** Sample ID: Seq: 50 16:37:14 28 Jun 12 HG
480-21829-a-11-c

Hg	-.006	ppb	.000	-.006

*** Sample ID: Seq: 51 16:38:24 28 Jun 12 HG
180-11912-c-1-k

Hg	.314	ppb	.000	.314

*** Check Standard: 3 Ck3CCV Seq: 52 16:39:43 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		90.4	1.81	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 53 16:40:49 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.020	.200	ppb	.000

*** Sample ID: Seq: 54 16:42:06 28 Jun 12 HG
180-11912-c-2-j

Hg	.187	ppb	.000	.187

*** Sample ID: Seq: 55 16:43:13 28 Jun 12 HG
180-11912-c-3-i

Hg	.182	ppb	.000	.182

*** Sample ID: Seq: 56 16:44:32 28 Jun 12 HG
180-11912-c-4-g

Hg	.140	ppb	.000	.140

*** Sample ID: Seq: 57 16:45:59 28 Jun 12 HG
180-11912-a-7-j

Hg	.074	ppb	.000	.074

*** Sample ID: Seq: 58 16:47:25 28 Jun 12 HG
180-11912-a-8-h

Hg	.120	ppb	.000	.120

*** Sample ID: Seq: 59 16:48:52 28 Jun 12 HG
180-11912-a-9-h

Hg	.228	ppb	.000	.228

*** Sample ID: Seq: 60 16:50:11 28 Jun 12 HG
480-21889-a-8-b

Hg	3.31	ppb	.000	3.31

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV        Seq:  61      16:51:28 28 Jun 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          89.8     1.80    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  62      16:52:34 28 Jun 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.064     .200     ppb        .000

*** Sample ID:                       Seq:  63      16:56:29 28 Jun 12   HG
                          480-21915-a-1-a@20
Hg    1.47    ppb       .000      1.47

*** Sample ID:                       Seq:  64      16:57:41 28 Jun 12   HG
                          21915-a-2-a@20
Hg    1.53    ppb       .000      1.53

*** Sample ID:                       Seq:  65      16:59:08 28 Jun 12   HG
                          21915-a-2-a SD@100
Hg    .310    ppb       .000      .310

*** Sample ID:                       Seq:  66      17:00:25 28 Jun 12   HG
                          21915-a-2-b ms@20
Hg    1.86    ppb       .000      1.86

*** Sample ID:                       Seq:  67      17:01:32 28 Jun 12   HG
                          21915-a-2-c msd@20
Hg    1.96    ppb       .000      1.96

*** Sample ID:                       Seq:  68      17:03:22 28 Jun 12   HG
                          480-21915-a-9-a@20
Hg    4.53    ppb       .000      4.53

*** Check Standard: 3  Ck3CCV        Seq:  69      17:04:32 28 Jun 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          86.0     1.72    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  70      17:06:03 28 Jun 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .027     .200     ppb        .000
```

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70203 Batch Start Date: 06/27/12 11:38 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	EFD_PartSizeRed	EFD_SampleWeight	EFD_VolumeWater Add
LB 480-70203/1		1311, 7470A, 7470A			2000 mL	4.88 SU			
480-21774-A-1	MR-SB-1SS-DP-13-1.5-2	1311, 7470A, 7470A	P	100.20 g	2000 mL	4.98 SU	No	5.51 g	96 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_InitialpH	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	ExtractionFluid One	ExtractionFluid Two
LB 480-70203/1		1311, 7470A, 7470A						Yes	No
480-21774-A-1	MR-SB-1SS-DP-13-1.5-2	1311, 7470A, 7470A	P	7.41 SU	3.5	Yes	0.79 SU	Yes	No

Lab Sample ID	Client Sample ID	Method Chain	Basis	PartSizeRed	InitialRoomTemp	FinalRoomTemp	VesselNumber	FiltCompDate	FiltCompTime
LB 480-70203/1		1311, 7470A, 7470A			23.00 Celsius	22.00 Celsius	Plastic	6/28/12	08:15
480-21774-A-1	MR-SB-1SS-DP-13-1.5-2	1311, 7470A, 7470A	P	No	23.00 Celsius	22.00 Celsius	Plastic	6/28/12	08:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	LeachVolume	TCLP%Solids	ExtractFluid		
LB 480-70203/1		1311, 7470A, 7470A		4.95 SU	825 mL		1		
480-21774-A-1	MR-SB-1SS-DP-13-1.5-2	1311, 7470A, 7470A	P	6.04 SU	775 mL	100 %	1		

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70203 Batch Start Date: 06/27/12 11:38 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
Batch Comment	pH of 809282 is 4.91
pH Buffer 1 ID	796757
pH Buffer 2 ID	796758
pH Buffer 3 ID	610835
First End time	07:08
pH Meter ID	566020
Room Temperature during Rotation	22.70-24.70 Degrees C
Room Temperature Thermometer ID	80531828
First Start time	15:08
TCLP Fluid 1 ID	809282
Temperature	correction factor + 0.70 Degrees C
ID number of the thermometer	80531828
Tumbler Rotations per Minute	28 RPM
Uncorrected Final Room Temperature	22.00 Celsius
Uncorrected Initial Room Temperature	23.00 Celsius
Uncorrected Room Temperature	22.00-24.00 Celsius
Uncorrected Temperature	22.00 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70240 Batch Start Date: 06/27/12 13:55 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	EFD_PartSizeRed	EFD_SampleWeight	EFD_VolumeWater Add
480-21775-B-1	MR-C-1SS-DP-13-0 -0.5	1311, 7470A, 7470A	P	100.31 g	2000 mL	2.88 SU	No	5.28 g	96 mL
LB2 480-70240/2		1311, 7470A, 7470A			2000 mL	3.70 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_InitialpH	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	ExtractionFluid One	ExtractionFluid Two
480-21775-B-1	MR-C-1SS-DP-13-0 -0.5	1311, 7470A, 7470A	P	11.39 SU	3.5	Yes	10.59 SU	No	Yes
LB2 480-70240/2		1311, 7470A, 7470A						No	Yes

Lab Sample ID	Client Sample ID	Method Chain	Basis	PartSizeRed	InitialRoomTemp	FinalRoomTemp	VesselNumber	FiltCompDate	FiltCompTime
480-21775-B-1	MR-C-1SS-DP-13-0 -0.5	1311, 7470A, 7470A	P	No	23.00 Celsius	22.00 Celsius	KG	6/28/12	08:20
LB2 480-70240/2		1311, 7470A, 7470A			23.00 Celsius	22.00 Celsius	@	6/28/12	08:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	LeachVolume	TCLP%Solids	ExtractFluid		
480-21775-B-1	MR-C-1SS-DP-13-0 -0.5	1311, 7470A, 7470A	P	4.87 SU	750 mL	100 %	2		
LB2 480-70240/2		1311, 7470A, 7470A		2.89 SU	750 mL		2		

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70240 Batch Start Date: 06/27/12 13:55 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
Batch Comment	pH of 779944 is 2.90
pH Buffer 1 ID	796757
pH Buffer 2 ID	796758
pH Buffer 3 ID	610835
First End time	07:08
pH Meter ID	566020
Room Temperature during Rotation	22.70-24.70 Degrees C
Room Temperature Thermometer ID	80531828
First Start time	15:08
TCLP Fluid 2 ID	779944
Temperature	correction factor + 0.70 Degrees C
ID number of the thermometer	80531828
Tumbler Rotations per Minute	28 RPM
Uncorrected Final Room Temperature	22.00 Celsius
Uncorrected Initial Room Temperature	23.00 Celsius
Uncorrected Room Temperature	22.00-24.00 Celsius
Uncorrected Temperature	22.00 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70345 Batch Start Date: 06/28/12 09:00 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00124			
MB 480-70345/1		7470A, 7470A		30 mL	50 mL				
LCS 480-70345/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-21847-A-13	MR-FB-062612	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch : 70391
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597538
Hot Block ID number	C
Potassium Persulfate Lot Number	747131
Potassium Permanganate Lot Number	797048
Oven, Bath or Block Temperature 1	94.5 Celsius
Pipette ID	MDL-3
Stannous Chloride Lot Number	792748
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70365 Batch Start Date: 06/28/12 09:45 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG_TCLP_W 00020			
LB 480-70203/1-A		7470A, 7470A		30 mL	50 mL				
MB 480-70365/2		7470A, 7470A		30 mL	50 mL				
LCS 480-70365/3		7470A, 7470A		30 mL	50 mL	0.15 mL			
480-21774-A-1-A	MR-SB-1SS-DP-13-1.5-2	7470A, 7470A	P	30 mL	50 mL				
480-21774-A-1-A MS	MR-SB-1SS-DP-13-1.5-2	7470A, 7470A	P	30 mL	50 mL	0.15 mL			
480-21774-A-1-A MSD	MR-SB-1SS-DP-13-1.5-2	7470A, 7470A	P	30 mL	50 mL	0.15 mL			

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch : 70391
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597538
Hot Block ID number	B
Potassium Persulfate Lot Number	747131
Potassium Permanganate Lot Number	797048
Oven, Bath or Block Temperature 1	94.0 Celsius
Pipette ID	MDL-3
Stannous Chloride Lot Number	792748
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	94.5 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70368 Batch Start Date: 06/28/12 09:45 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG_TCLP_W 00020			
LB2 480-70240/2-A		7470A, 7470A		30 mL	50 mL				
MB 480-70368/2		7470A, 7470A		30 mL	50 mL				
LCS 480-70368/3		7470A, 7470A		30 mL	50 mL	0.15 mL			
480-21775-B-1-B	MR-C-1SS-DP-13-0 -0.5	7470A, 7470A	P	30 mL	50 mL				
480-21775-B-1-B MS	MR-C-1SS-DP-13-0 -0.5	7470A, 7470A	P	30 mL	50 mL	0.15 mL			
480-21775-B-1-B MSD	MR-C-1SS-DP-13-0 -0.5	7470A, 7470A	P	30 mL	50 mL	0.15 mL			

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch : 70391
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597538
Hot Block ID number	B
Potassium Persulfate Lot Number	747131
Potassium Permanganate Lot Number	797048
Oven, Bath or Block Temperature 1	94.0 Celsius
Pipette ID	MDL-3
Stannous Chloride Lot Number	792748
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	94.5 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70041 Batch Start Date: 06/26/12 11:20 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_SRM_D071 00001			
MB 480-70041/1		7471A, 7471A		+0.6149 g	50 mL				
LCSSRM 480-70041/2		7471A, 7471A		+0.0526 g	50 mL	0.0526 g			
480-21773-A-1	MR-SB-1SS-DP-13-1.5-2	7471A, 7471A	T	+0.5830 g	50 mL				
480-21773-A-2	MR-SB-1SS-DP-13-12-12.5	7471A, 7471A	T	+0.6385 g	50 mL				
480-21773-A-3	MR-SB-1SS-DP-13-23.5-24	7471A, 7471A	T	+0.5913 g	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	747243
Balance ID	25850472
Batch Comment	Prep Batch: 70062
Blank Soil Lot Number	52635
Lot # of hydrochloric acid	655020
Lot # of Nitric Acid	597583
Hot Block ID number	C
Potassium Permanganate Lot Number	770992
Oven, Bath or Block Temperature 1	94.5
Pipette ID	HGL-5
Stannous Chloride Lot Number	769081
ID number of the thermometer	A02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70235 Batch Start Date: 06/27/12 13:26 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00123	MEH_SRM_D071 00001		
MB 480-70235/1		7471A, 7471A		+0.6387 g	50 mL				
LCSSRM 480-70235/2		7471A, 7471A		+0.0527 g	50 mL		0.0527 g		
480-21847-A-1	MR-SB-1SS-DP-13-35.5-36	7471A, 7471A	T	+0.6270 g	50 mL				
480-21847-A-2	MR-SB-1SS-DP-13-47-47.5	7471A, 7471A	T	+0.6431 g	50 mL				
480-21847-A-3	MR-SB-1SS-DP-13-54.5-55	7471A, 7471A	T	+0.6435 g	50 mL				
480-21847-A-4	MP-DUP-062612	7471A, 7471A	T	+0.6495 g	50 mL				
480-21847-A-5	MR-SB-1SS-DP-13-64-64.5	7471A, 7471A	T	+0.6365 g	50 mL				
480-21847-A-6	MR-SB-1SS-DP-10-1.5-2	7471A, 7471A	T	+0.6289 g	50 mL				
480-21847-A-7	MR-SB-1SS-DP-10-12-12.5	7471A, 7471A	T	+0.5931 g	50 mL				
480-21847-A-8	MR-SB-1SS-DP-10-24-24.5	7471A, 7471A	T	+0.5958 g	50 mL				
480-21847-A-9	MR-SB-1SS-DP-10-32-32.5	7471A, 7471A	T	+0.6516 g	50 mL				
480-21847-A-9 MS	MR-SB-1SS-DP-10-32-32.5	7471A, 7471A	T	+0.6227 g	50 mL	2 mL			
480-21847-A-9 MSD	MR-SB-1SS-DP-10-32-32.5	7471A, 7471A	T	+0.6373 g	50 mL	2 mL			
480-21847-A-10	MR-SB-1SS-DP-10-44-44.5	7471A, 7471A	T	+0.6012 g	50 mL				
480-21847-A-11	MR-SB-1SS-DP-10-56-56.5	7471A, 7471A	T	+0.6201 g	50 mL				
480-21847-A-12	MR-SB-1SS-DP-10-66-6.5	7471A, 7471A	T	+0.6188 g	50 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70235 Batch Start Date: 06/27/12 13:26 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date:

Batch Notes	
Hydroxylamine Hydrochloride Lot	747243
Balance ID	25850472
Batch Comment	Prep Batch: 70205
Blank Soil Lot Number	52635
Lot # of hydrochloric acid	655020
Lot # of Nitric Acid	597583
Hot Block ID number	C
Potassium Permanganate Lot Number	797048
Oven, Bath or Block Temperature 1	94.5
Pipette ID	HGL-5
Stannous Chloride Lot Number	769081
ID number of the thermometer	A02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70418 Batch Start Date: 06/28/12 14:30 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_SRM_D071 00001			
MB 480-70418/1		7471A, 7471A		+0.6167 g	50 mL				
LCSSRM 480-70418/2		7471A, 7471A		+0.0527 g	50 mL	0.0527 g			
480-21775-A-1	MR-C-1SS-DP-13-0 -0.5	7471A, 7471A	T	+0.6051 g	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	747243
Balance ID	25850472
Batch Comment	Prep Batch: 70392
Blank Soil Lot Number	52635
Lot # of hydrochloric acid	655020
Lot # of Nitric Acid	597583
Hot Block ID number	B
Potassium Permanganate Lot Number	797048
Oven, Bath or Block Temperature 1	94.5
Pipette ID	HGL-5
Stannous Chloride Lot Number	769081
ID number of the thermometer	A02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-21773-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-SB-1SS-DP-13-1.5-2	480-21773-1
MR-SB-1SS-DP-13-12-12.5	480-21773-2
MR-SB-1SS-DP-13-23.5-24	480-21773-3
MR-C-1SS-DP-13-0-0.5	480-21775-1
MR-SB-1SS-DP-13-35.5-36	480-21847-1
MR-SB-1SS-DP-13-47-47.5	480-21847-2
MR-SB-1SS-DP-13-54.5-55	480-21847-3
MP-DUP-062612	480-21847-4
MR-SB-1SS-DP-13-64-64.5	480-21847-5
MR-SB-1SS-DP-10-1.5-2	480-21847-6
MR-SB-1SS-DP-10-12-12.5	480-21847-7
MR-SB-1SS-DP-10-24-24.5	480-21847-8
MR-SB-1SS-DP-10-32-32.5	480-21847-9
MR-SB-1SS-DP-10-44-44.5	480-21847-10
MR-SB-1SS-DP-10-56-56.5	480-21847-11
MR-SB-1SS-DP-10-66-6.5	480-21847-12

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-21773-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-21773-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/26/2012 11:57 End Date: 06/26/2012 11:57

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			11:57																				
480-21773-1	1	T	11:57	X	X																		
480-21773-2	1	T	11:57	X	X																		
480-21773-3	1	T	11:57	X	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/26/2012 14:50 End Date: 06/26/2012 14:50

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			14:50																				
ZZZZZZ			14:50																				
ZZZZZZ			14:50																				
ZZZZZZ			14:50																				
ZZZZZZ			14:50																				
ZZZZZZ			14:50																				
ZZZZZZ			14:50																				
ZZZZZZ			14:50																				
480-21775-1	1	T	14:50	X	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/27/2012 13:26 End Date: 06/27/2012 13:26

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
480-21847-1	1	T	13:26	X	X																		
480-21847-2	1	T	13:26	X	X																		
480-21847-3	1	T	13:26	X	X																		
480-21847-4	1	T	13:26	X	X																		
480-21847-5	1	T	13:26	X	X																		
480-21847-6	1	T	13:26	X	X																		
480-21847-7	1	T	13:26	X	X																		
480-21847-8	1	T	13:26	X	X																		
480-21847-9	1	T	13:26	X	X																		
480-21847-9 MS	1	T	13:26	X	X																		
480-21847-9 MSD	1	T	13:26	X	X																		
480-21847-10	1	T	13:26	X	X																		
480-21847-11	1	T	13:26	X	X																		
480-21847-12	1	T	13:26	X	X																		

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70055 Batch Start Date: 06/26/12 11:57 Batch Analyst: Robitaille, Zach L

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-21773-A-1	MR-SB-1SS-DP-13-1.5-2	Moisture	T	2	4.45 g	11.91 g	11.23 g		
480-21773-A-2	MR-SB-1SS-DP-13-12-12.5	Moisture	T	3	4.45 g	16.66 g	13.47 g		
480-21773-A-3	MR-SB-1SS-DP-13-23.5-24	Moisture	T	4	4.45 g	19.09 g	15.40 g		

Batch Notes	
Batch Comment	pp-bsl-0311 4.45
Date samples were placed in the oven	05/26/12
Time samples were place in the oven	1157
Date samples were removed from oven	06/27/12
Time Samples were removed from oven	1157

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70083 Batch Start Date: 06/26/12 14:50 Batch Analyst: Robitaille, Zach L

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-21775-A-1	MR-C-1SS-DP-13-0 -0.5	Moisture	T	I	4.45 g	12.41 g	11.95 g		

Batch Notes	
Batch Comment	pp-bsl-0311 4.45
Date samples were placed in the oven	06/26/12
Time samples were place in the oven	1450

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21773-1

SDG No.:

Batch Number: 70234 Batch Start Date: 06/27/12 13:26 Batch Analyst: Robitaille, Zach L

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-21847-A-1	MR-SB-1SS-DP-13-35.5-36	Moisture	T	1	4.35 g	11.97 g	10.47 g		
480-21847-A-2	MR-SB-1SS-DP-13-47-47.5	Moisture	T	2	4.35 g	11.96 g	10.44 g		
480-21847-A-3	MR-SB-1SS-DP-13-54.5-55	Moisture	T	3	4.35 g	15.37 g	12.91 g		
480-21847-A-4	MP-DUP-062612	Moisture	T	4	4.35 g	12.68 g	10.80 g		
480-21847-A-5	MR-SB-1SS-DP-13-64-64.5	Moisture	T	5	4.35 g	12.76 g	10.49 g		
480-21847-A-6	MR-SB-1SS-DP-10-1.5-2	Moisture	T	6	4.35 g	11.63 g	11.01 g		
480-21847-A-7	MR-SB-1SS-DP-10-12-12.5	Moisture	T	7	4.35 g	12.33 g	10.30 g		
480-21847-A-8	MR-SB-1SS-DP-10-24-24.5	Moisture	T	8	4.35 g	12.32 g	10.35 g		
480-21847-A-9	MR-SB-1SS-DP-10-32-32.5	Moisture	T	9	4.35 g	13.30 g	11.63 g		
480-21847-A-9 MS	MR-SB-1SS-DP-10-32-32.5	Moisture	T	9	4.35 g	13.30 g	11.63 g		
480-21847-A-9 MSD	MR-SB-1SS-DP-10-32-32.5	Moisture	T	9	4.35 g	13.30 g	11.63 g		
480-21847-A-10	MR-SB-1SS-DP-10-44-44.5	Moisture	T	10	4.35 g	13.78 g	11.46 g		
480-21847-A-11	MR-SB-1SS-DP-10-56-56.5	Moisture	T	11	4.35 g	13.70 g	11.77 g		
480-21847-A-12	MR-SB-1SS-DP-10-66-6.5	Moisture	T	12	4.35 g	14.94 g	12.31 g		

Batch Notes	
Batch Comment	pp-bsl-0311 4.35
Date samples were placed in the oven	06/27/12
Time samples were place in the oven	1326

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 6/26/12	Chain of Custody Number: 223664
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 1 of 2
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Catie Mino	Lab Contact: Brian Fischer	
Project Name and Location (State): Merco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed): Mercury USEPA SW-846 7471A; TCLP Hg

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Mercury USEPA SW-846 7471A		TCLP Hg									Special Instructions/ Conditions of Receipt
MR-SB-1SS-DP-13-35.5-36	6/26/12	7:55				X	X							X											
MR-SB-1SS-DP-13-47-47.5	6/26/12	9:00				X	X							X											
MR-SB-1SS-DP-13-54.5-55	6/26/12	9:15				X	X							X											
MR-DUP-062612	6/26/12	99:99				X	X							X											
MR-SB-1SS-DP-13-64-64.5	6/26/12	10:55				X	X							X											
MR-SB-1SS-DP-10-1.5-2	6/26/12	14:00				X	X							X		X									AS PER E-MAIL
MR-SB-1SS-DP-10-12-12.5	6/26/12	14:50				X	X							X											
MR-SB-1SS-DP-10-24-24.5	6/26/12	15:10				X	X							X											
MR-SB-1SS-DP-10-32-32.5	6/26/12	15:20				X	X							X											MS/MSD
MR-SB-1SS-DP-10-44-44.5	6/26/12	15:35				X	X							X											
MR-SB-1SS-DP-10-56-56.5	6/26/12	15:55				X	X							X											
MR-SB-1SS-DP-10-66-66.5	6/26/12	16:10				X	X							X											

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/26/12	16:45	1. Received By: [signature]	6-26-12	1645
2. Relinquished By: [signature]	6-26-12	1700	2. Received By: [signature] TABUFFORD	6/27/12	0900
3. Relinquished By:			3. Received By:		

Comments: 2.0°C #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 6/26/12	Chain of Custody Number: 223658
Address: 110 Commerce Dr..	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number:	Page 2 of 2
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Catie Chino; Lab Contact: Brian Fischer		
Project Name and Location (State): Mereco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): MERCURY & USEPA SW-CHB 7471A	Special Instructions/ Conditions of Receipt
MR-FB-062612	6/26/12	16:30		X					X				X	

TAC 6-26-12

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/26/12	16:45	1. Received By: [signature]	6-26-12	1645
2. Relinquished By: [signature]	6-26-12	1700	2. Received By: [signature] TABUFFACO	6/27/12	0900
3. Relinquished By:			3. Received By:		

Comments: 2.0°C #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date:	Chain of Custody Number: 223657
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number:	Page 1 of 1
City: Allendale; State: NJ; Zip Code: 07407	Site Contact: Catie Mino; Lab Contact: Brian Fischer		
Project Name and Location (State): Mereco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Concrete	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	USCPA SW-846 7471A Hg	TCLP 4S 7470A	Special Instructions/ Conditions of Receipt
MR-C-ISS-DP-13-0-0.5	6/25/12	14:45					X	X						X	X	
MR-SB-ISS-DP-13-1.5-2	6/25/12	15:00				X		X						X	(X)	As per Email TCLP Hg
MR-SB-ISS-DP-13-12-12.5	6/25/12	15:20				X		X						X		
MR-SB-ISS-DP-13-23.5-24	6/25/12	16:05				X		X						X		

TMCC 6-25-12

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/25/17	16:40	1. Received By: [signature]	6-25-12	1640
2. Relinquished By: [signature]	6-25-12	1700	2. Received By: [signature]	6-26-12	0800
3. Relinquished By:			3. Received By:		

Comments

3.0 #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date:	Chain of Custody Number: 223657
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number:	Page 1 of 1
City: Allendale; State: NJ; Zip Code: 07407	Site Contact: Catie Mino; Lab Contact: Brian Fischer		
Project Name and Location (State): Mereco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Concrete	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	USEPA SW-846 7471A Hg	TCLP 4.8 7470A	Special Instructions/ Conditions of Receipt
MR-C-ISS-DP-13-0-0.5	6/25/12	14:45					X	X						X	X	
MR-SB-ISS-DP-13-1.5-2	6/25/12	15:00				X		X						X	(X)	As per Email + TCLP Hg
MR-SB-ISS-DP-13-12-12.5	6/25/12	15:20				X		X						X		
MR-SB-ISS-DP-13-23.5-24	6/25/12	16:05				X		X						X		

TMC 6-25-12

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/25/12	16:40	1. Received By: [signature]	6-25-12	1640
2. Relinquished By: [signature]	6-25-12	1700	2. Received By: [signature]	6-26-12	0800
3. Relinquished By:			3. Received By:		

Comments: 3.0 #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date	Chain of Custody Number: 223657
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number	Page 1 of 1
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Catie Mino; Lab Contact: Brian Fischer		
Project Name and Location (State): Mereco Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No. —			

Analysis (Attach list if more space is needed): USEPA SW-846 7471A; TCLP HG 7470A

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Grab	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	USEPA SW-846 7471A	TCLP HG 7470A	Special Instructions/ Conditions of Receipt
MR-C-1SS-DP-13-0-0.5	6/25/12	14:45					X	X						X	X	
MR-SB-1SS-DP-13-1.5-2	6/25/12	15:00				X		X						X	(X)	As per email TCLP Hg
MR-SB-1SS-DP-13-12-12.5	6/25/12	15:20				X		X						X		
MR-SB-1SS-DP-13-23.5-24	6/25/12	16:05				X		X						X		

MCC 6-25-12

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	6/25/12	16:40	1. Received By	6-25-12	1640
2. Relinquished By	6-25-12	1700	2. Received By	6-26-12	0800
3. Relinquished By			3. Received By		

Comments

3.0 #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21773-1

Login Number: 21773

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	b+c
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21773-1

Login Number: 21774

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21773-1

Login Number: 21775

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21773-1

Login Number: 21847

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kinecki, Kenneth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Brown & Caldwell
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-25068-1

Job Description: Colonie, NY site

For:
Brown and Caldwell
2 Park Way
Suite 2A
Upper Saddle River, NJ 07458

Attention: Ms. Carolyn A Spinapolice

Approved for release.
Brian Fischer
Project Manager II
9/18/2012 9:13 AM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com
09/18/2012

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Comments
No additional comments.

Receipt
The samples were received on 9/13/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

Metals
No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-25068-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-25068-1	MR-GW-MW-1SS-13S-F	Water	09/11/2012 1020	09/13/2012 0900
480-25068-2	MR-GW-MW-1SS-12S-F	Water	09/11/2012 1225	09/13/2012 0900
480-25068-3	MR-GW-MW-1SS-11I-F	Water	09/11/2012 1445	09/13/2012 0900
480-25068-4	MR-GW-MW-1SS-10I-F	Water	09/11/2012 1540	09/13/2012 0900
480-25068-5	FB-091112	Water	09/11/2012 1030	09/13/2012 0900
480-25068-6	DUP-091012-F	Water	09/10/2012 0000	09/13/2012 0900
480-25068-7	DUP-091012-U	Water	09/10/2012 0000	09/13/2012 0900
480-25068-8	MR-GW-MW-1SS-11D-U	Water	09/12/2012 0836	09/13/2012 0900
480-25068-9	MR-GW-MW-1SS-11D-F	Water	09/12/2012 0836	09/13/2012 0900
480-25068-10	MR-GW-MW-1SS-10D-U	Water	09/12/2012 1007	09/13/2012 0900
480-25068-11	MR-GW-MW-1SS-10D-F	Water	09/12/2012 1007	09/13/2012 0900
480-25068-12	FB-091212	Water	09/12/2012 1100	09/13/2012 0900
480-25068-13	MR-GW-MW-1SS-13I-U	Water	09/10/2012 1220	09/13/2012 0900
480-25068-14	MR-GW-MW-1SS-12I-U	Water	09/10/2012 1415	09/13/2012 0900
480-25068-15	MR-GW-MW-1SS-13D-U	Water	09/10/2012 1615	09/13/2012 0900
480-25068-16	MR-GW-MW-1SS-13I-F	Water	09/10/2012 1220	09/13/2012 0900
480-25068-17	MR-GW-MW-1SS-12I-F	Water	09/10/2012 1415	09/13/2012 0900
480-25068-18	MR-GW-MW-1SS-13D-F	Water	09/10/2012 1615	09/13/2012 0900
480-25068-19	MR-GW-MW-1SS-12D-U	Water	09/11/2012 0820	09/13/2012 0900
480-25068-19MS	MR-GW-MW-1SS-12D-U	Water	09/11/2012 0820	09/13/2012 0900
480-25068-19MSD	MR-GW-MW-1SS-12D-U	Water	09/11/2012 0820	09/13/2012 0900
480-25068-20	MR-GW-MW-1SS-13S-U	Water	09/11/2012 1020	09/13/2012 0900
480-25068-21	MR-GW-MW-1SS-12S-U	Water	09/11/2012 1225	09/13/2012 0900
480-25068-22	MR-GW-MW-1SS-11I-U	Water	09/11/2012 1445	09/13/2012 0900
480-25068-23	MR-GW-MW-1SS-10I-U	Water	09/11/2012 1540	09/13/2012 0900
480-25068-24	MR-GW-MW-1SS-12D-F	Water	09/11/2012 0820	09/13/2012 0900
480-25068-24MS	MR-GW-MW-1SS-12D-F	Water	09/11/2012 0820	09/13/2012 0900
480-25068-24MSD	MR-GW-MW-1SS-12D-F	Water	09/11/2012 0820	09/13/2012 0900
480-25068-25	MR-GW-MW-1SS-11S-U	Water	09/12/2012 1111	09/13/2012 0900
480-25068-26	MR-GW-MW-1SS-11S-F	Water	09/12/2012 1111	09/13/2012 0900
480-25068-27	MR-GW-MW-1SS-10S-U	Water	09/12/2012 1345	09/13/2012 0900
480-25068-28	MR-GW-MW-1SS-10S-F	Water	09/12/2012 1345	09/13/2012 0900

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-25068-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-25068-10	**MR-GW-MW-1SS-10D-U**					
Mercury, Total		1.9		0.20	ug/L	7470A
480-25068-11	**MR-GW-MW-1SS-10D-F**					
Dissolved						
Mercury, Dissolved		0.53		0.20	ug/L	7470A
480-25068-15	**MR-GW-MW-1SS-13D-U**					
Mercury, Total		0.33		0.20	ug/L	7470A
480-25068-21	**MR-GW-MW-1SS-12S-U**					
Mercury, Total		0.30		0.20	ug/L	7470A
480-25068-25	**MR-GW-MW-1SS-11S-U**					
Mercury, Total		0.64		0.20	ug/L	7470A
480-25068-26	**MR-GW-MW-1SS-11S-F**					
Dissolved						
Mercury, Dissolved		0.51		0.20	ug/L	7470A

METHOD SUMMARY

Client: Brown and Caldwell

Job Number: 480-25068-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Brown and Caldwell

Job Number: 480-25068-1

Method	Analyst	Analyst ID
SW846 7470A	Kacalski, Jason	JRK

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-13S-F**

Lab Sample ID: 480-25068-1

Client Matrix: Water

Date Sampled: 09/11/2012 1020

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1156			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-12S-F**

Lab Sample ID: 480-25068-2

Client Matrix: Water

Date Sampled: 09/11/2012 1225

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1159			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-11I-F**

Lab Sample ID: 480-25068-3

Client Matrix: Water

Date Sampled: 09/11/2012 1445

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1200			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-10I-F**

Lab Sample ID: 480-25068-4

Client Matrix: Water

Date Sampled: 09/11/2012 1540

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1202			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **FB-091112**

Lab Sample ID: 480-25068-5

Client Matrix: Water

Date Sampled: 09/11/2012 1030

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1304			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **DUP-091012-F**

Lab Sample ID: 480-25068-6

Client Matrix: Water

Date Sampled: 09/10/2012 0000

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1204			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **DUP-091012-U**

Lab Sample ID: 480-25068-7

Client Matrix: Water

Date Sampled: 09/10/2012 0000

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1306			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-11D-U**

Lab Sample ID: 480-25068-8

Client Matrix: Water

Date Sampled: 09/12/2012 0836

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1308			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-11D-F**

Lab Sample ID: 480-25068-9

Client Matrix: Water

Date Sampled: 09/12/2012 0836

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1206			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-10D-U**

Lab Sample ID: 480-25068-10

Client Matrix: Water

Date Sampled: 09/12/2012 1007

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1310			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	1.9		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-10D-F**

Lab Sample ID: 480-25068-11

Client Matrix: Water

Date Sampled: 09/12/2012 1007

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1208			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	0.53		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **FB-091212**

Lab Sample ID: 480-25068-12

Client Matrix: Water

Date Sampled: 09/12/2012 1100

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1311			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-13I-U**

Lab Sample ID: 480-25068-13

Client Matrix: Water

Date Sampled: 09/10/2012 1220

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1314			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-12I-U**

Lab Sample ID: 480-25068-14

Client Matrix: Water

Date Sampled: 09/10/2012 1415

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1316			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-13D-U**

Lab Sample ID: 480-25068-15

Client Matrix: Water

Date Sampled: 09/10/2012 1615

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1318			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.33		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-13I-F**

Lab Sample ID: 480-25068-16

Client Matrix: Water

Date Sampled: 09/10/2012 1220

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1210			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-12I-F**

Lab Sample ID: 480-25068-17

Client Matrix: Water

Date Sampled: 09/10/2012 1415

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1215			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-13D-F**

Lab Sample ID: 480-25068-18

Client Matrix: Water

Date Sampled: 09/10/2012 1615

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1217			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-12D-U**

Lab Sample ID: 480-25068-19

Client Matrix: Water

Date Sampled: 09/11/2012 0820

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1320			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-13S-U**

Lab Sample ID: 480-25068-20

Client Matrix: Water

Date Sampled: 09/11/2012 1020

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1332			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-12S-U**

Lab Sample ID: 480-25068-21

Client Matrix: Water

Date Sampled: 09/11/2012 1225

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1333			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.30		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-11I-U**

Lab Sample ID: 480-25068-22

Client Matrix: Water

Date Sampled: 09/11/2012 1445

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1335			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-10I-U**

Lab Sample ID: 480-25068-23

Client Matrix: Water

Date Sampled: 09/11/2012 1540

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1337			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-12D-F**

Lab Sample ID: 480-25068-24

Client Matrix: Water

Date Sampled: 09/11/2012 0820

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1218			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-11S-U**

Lab Sample ID: 480-25068-25

Client Matrix: Water

Date Sampled: 09/12/2012 1111

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1339			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.64		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-11S-F**

Lab Sample ID: 480-25068-26

Client Matrix: Water

Date Sampled: 09/12/2012 1111

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1226			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	0.51		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-10S-U**

Lab Sample ID: 480-25068-27

Client Matrix: Water

Date Sampled: 09/12/2012 1345

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1341			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Client Sample ID: **MR-GW-MW-1SS-10S-F**

Lab Sample ID: 480-25068-28

Client Matrix: Water

Date Sampled: 09/12/2012 1345

Date Received: 09/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1228			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-25068-1

Method Blank - Batch: 480-80564

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	MB 480-80230/11-B	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1133	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Dissolved	ND		0.20

Lab Control Sample - Batch: 480-80564

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	LCS 480-80230/12-B	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1134	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Dissolved	6.67	6.67	100	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-80564

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	480-25068-24	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1222			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				
Leach Date:	N/A				

MSD Lab Sample ID:	480-25068-24	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1224			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Dissolved	95	96	75 - 125	2	20		

Client: Brown and Caldwell

Job Number: 480-25068-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-80564

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	480-25068-24	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/14/2012 1222		
Prep Date:	09/14/2012 0845		
Leach Date:	N/A		

MSD Lab Sample ID:	480-25068-24
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/14/2012 1224
Prep Date:	09/14/2012 0845
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury, Dissolved	ND	6.67	6.67	6.33	6.43

Serial Dilution - Batch: 480-80564

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	480-25068-24	Analysis Batch:	480-80648	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-80564	Lab File ID:	J09142D1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1220	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0845				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Dissolved	ND	ND	NC	10	

Client: Brown and Caldwell

Job Number: 480-25068-1

Method Blank - Batch: 480-80566

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-80566/1-A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1257	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-80566

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-80566/2-A	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1259	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.35	95	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-80566

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-25068-19	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1328			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				
Leach Date:	N/A				

MSD Lab Sample ID:	480-25068-19	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1330			Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Total	98	98	75 - 125	1	20		

Client: Brown and Caldwell

Job Number: 480-25068-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-80566

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-25068-19	Units: ug/L	MSD Lab Sample ID:	480-25068-19
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	09/14/2012 1328		Analysis Date:	09/14/2012 1330
Prep Date:	09/14/2012 0821		Prep Date:	09/14/2012 0821
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury, Total	ND	6.67	6.67	6.52	6.55

Serial Dilution - Batch: 480-80566

Method: 7470A
Preparation: 7470A

Lab Sample ID:	480-25068-19	Analysis Batch:	480-80667	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-80566	Lab File ID:	H09142W1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/14/2012 1322	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/14/2012 0821				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Total	ND	ND	NC	10	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Brown and Caldwell

Job Number: 480-25068-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-80564					
LCS 480-80230/12-B	Lab Control Sample	D	Water	7470A	
MB 480-80230/11-B	Method Blank	D	Water	7470A	
480-25068-1	MR-GW-MW-1SS-13S-F	D	Water	7470A	
480-25068-2	MR-GW-MW-1SS-12S-F	D	Water	7470A	
480-25068-3	MR-GW-MW-1SS-11I-F	D	Water	7470A	
480-25068-4	MR-GW-MW-1SS-10I-F	D	Water	7470A	
480-25068-6	DUP-091012-F	D	Water	7470A	
480-25068-9	MR-GW-MW-1SS-11D-F	D	Water	7470A	
480-25068-11	MR-GW-MW-1SS-10D-F	D	Water	7470A	
480-25068-16	MR-GW-MW-1SS-13I-F	D	Water	7470A	
480-25068-17	MR-GW-MW-1SS-12I-F	D	Water	7470A	
480-25068-18	MR-GW-MW-1SS-13D-F	D	Water	7470A	
480-25068-24	MR-GW-MW-1SS-12D-F	D	Water	7470A	
480-25068-24MS	Matrix Spike	D	Water	7470A	
480-25068-24MSD	Matrix Spike Duplicate	D	Water	7470A	
480-25068-26	MR-GW-MW-1SS-11S-F	D	Water	7470A	
480-25068-28	MR-GW-MW-1SS-10S-F	D	Water	7470A	
Prep Batch: 480-80566					
LCS 480-80566/2-A	Lab Control Sample	T	Water	7470A	
MB 480-80566/1-A	Method Blank	T	Water	7470A	
480-25068-5	FB-091112	T	Water	7470A	
480-25068-7	DUP-091012-U	T	Water	7470A	
480-25068-8	MR-GW-MW-1SS-11D-U	T	Water	7470A	
480-25068-10	MR-GW-MW-1SS-10D-U	T	Water	7470A	
480-25068-12	FB-091212	T	Water	7470A	
480-25068-13	MR-GW-MW-1SS-13I-U	T	Water	7470A	
480-25068-14	MR-GW-MW-1SS-12I-U	T	Water	7470A	
480-25068-15	MR-GW-MW-1SS-13D-U	T	Water	7470A	
480-25068-19	MR-GW-MW-1SS-12D-U	T	Water	7470A	
480-25068-19MS	Matrix Spike	T	Water	7470A	
480-25068-19MSD	Matrix Spike Duplicate	T	Water	7470A	
480-25068-20	MR-GW-MW-1SS-13S-U	T	Water	7470A	
480-25068-21	MR-GW-MW-1SS-12S-U	T	Water	7470A	
480-25068-22	MR-GW-MW-1SS-11I-U	T	Water	7470A	
480-25068-23	MR-GW-MW-1SS-10I-U	T	Water	7470A	
480-25068-25	MR-GW-MW-1SS-11S-U	T	Water	7470A	
480-25068-27	MR-GW-MW-1SS-10S-U	T	Water	7470A	

Client: Brown and Caldwell

Job Number: 480-25068-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-80648					
LCS 480-80230/12-B	Lab Control Sample	D	Water	7470A	480-80564
MB 480-80230/11-B	Method Blank	D	Water	7470A	480-80564
480-25068-1	MR-GW-MW-1SS-13S-F	D	Water	7470A	480-80564
480-25068-2	MR-GW-MW-1SS-12S-F	D	Water	7470A	480-80564
480-25068-3	MR-GW-MW-1SS-11I-F	D	Water	7470A	480-80564
480-25068-4	MR-GW-MW-1SS-10I-F	D	Water	7470A	480-80564
480-25068-6	DUP-091012-F	D	Water	7470A	480-80564
480-25068-9	MR-GW-MW-1SS-11D-F	D	Water	7470A	480-80564
480-25068-11	MR-GW-MW-1SS-10D-F	D	Water	7470A	480-80564
480-25068-16	MR-GW-MW-1SS-13I-F	D	Water	7470A	480-80564
480-25068-17	MR-GW-MW-1SS-12I-F	D	Water	7470A	480-80564
480-25068-18	MR-GW-MW-1SS-13D-F	D	Water	7470A	480-80564
480-25068-24	MR-GW-MW-1SS-12D-F	D	Water	7470A	480-80564
480-25068-24MS	Matrix Spike	D	Water	7470A	480-80564
480-25068-24MSD	Matrix Spike Duplicate	D	Water	7470A	480-80564
480-25068-26	MR-GW-MW-1SS-11S-F	D	Water	7470A	480-80564
480-25068-28	MR-GW-MW-1SS-10S-F	D	Water	7470A	480-80564
Analysis Batch:480-80667					
LCS 480-80566/2-A	Lab Control Sample	T	Water	7470A	480-80566
MB 480-80566/1-A	Method Blank	T	Water	7470A	480-80566
480-25068-5	FB-091112	T	Water	7470A	480-80566
480-25068-7	DUP-091012-U	T	Water	7470A	480-80566
480-25068-8	MR-GW-MW-1SS-11D-U	T	Water	7470A	480-80566
480-25068-10	MR-GW-MW-1SS-10D-U	T	Water	7470A	480-80566
480-25068-12	FB-091212	T	Water	7470A	480-80566
480-25068-13	MR-GW-MW-1SS-13I-U	T	Water	7470A	480-80566
480-25068-14	MR-GW-MW-1SS-12I-U	T	Water	7470A	480-80566
480-25068-15	MR-GW-MW-1SS-13D-U	T	Water	7470A	480-80566
480-25068-19	MR-GW-MW-1SS-12D-U	T	Water	7470A	480-80566
480-25068-19MS	Matrix Spike	T	Water	7470A	480-80566
480-25068-19MSD	Matrix Spike Duplicate	T	Water	7470A	480-80566
480-25068-20	MR-GW-MW-1SS-13S-U	T	Water	7470A	480-80566
480-25068-21	MR-GW-MW-1SS-12S-U	T	Water	7470A	480-80566
480-25068-22	MR-GW-MW-1SS-11I-U	T	Water	7470A	480-80566
480-25068-23	MR-GW-MW-1SS-10I-U	T	Water	7470A	480-80566
480-25068-25	MR-GW-MW-1SS-11S-U	T	Water	7470A	480-80566
480-25068-27	MR-GW-MW-1SS-10S-U	T	Water	7470A	480-80566

Report Basis

D = Dissolved

T = Total

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-25068-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Client: Brown and Caldwell

Job Number: 480-25068-1

Laboratory Chronicle

Lab ID: 480-25068-1 **Client ID:** MR-GW-MW-1SS-13S-F

Sample Date/Time: 09/11/2012 10:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-1-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-1-A		480-80648	480-80564	09/14/2012 11:56	1	TAL BUF	JRK

Lab ID: 480-25068-2 **Client ID:** MR-GW-MW-1SS-12S-F

Sample Date/Time: 09/11/2012 12:25 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-2-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-2-A		480-80648	480-80564	09/14/2012 11:59	1	TAL BUF	JRK

Lab ID: 480-25068-3 **Client ID:** MR-GW-MW-1SS-11I-F

Sample Date/Time: 09/11/2012 14:45 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-3-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-3-A		480-80648	480-80564	09/14/2012 12:00	1	TAL BUF	JRK

Lab ID: 480-25068-4 **Client ID:** MR-GW-MW-1SS-10I-F

Sample Date/Time: 09/11/2012 15:40 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-4-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-4-A		480-80648	480-80564	09/14/2012 12:02	1	TAL BUF	JRK

Lab ID: 480-25068-5 **Client ID:** FB-091112

Sample Date/Time: 09/11/2012 10:30 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-5-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-5-A		480-80667	480-80566	09/14/2012 13:04	1	TAL BUF	JRK

Lab ID: 480-25068-6 **Client ID:** DUP-091012-F

Sample Date/Time: 09/10/2012 00:00 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-6-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-6-A		480-80648	480-80564	09/14/2012 12:04	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-25068-1

Laboratory Chronicle

Lab ID: 480-25068-7 **Client ID:** DUP-091012-U

Sample Date/Time: 09/10/2012 00:00 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-7-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-7-A		480-80667	480-80566	09/14/2012 13:06	1	TAL BUF	JRK

Lab ID: 480-25068-8 **Client ID:** MR-GW-MW-1SS-11D-U

Sample Date/Time: 09/12/2012 08:36 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-8-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-8-A		480-80667	480-80566	09/14/2012 13:08	1	TAL BUF	JRK

Lab ID: 480-25068-9 **Client ID:** MR-GW-MW-1SS-11D-F

Sample Date/Time: 09/12/2012 08:36 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-9-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-9-A		480-80648	480-80564	09/14/2012 12:06	1	TAL BUF	JRK

Lab ID: 480-25068-10 **Client ID:** MR-GW-MW-1SS-10D-U

Sample Date/Time: 09/12/2012 10:07 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-10-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-10-A		480-80667	480-80566	09/14/2012 13:10	1	TAL BUF	JRK

Lab ID: 480-25068-11 **Client ID:** MR-GW-MW-1SS-10D-F

Sample Date/Time: 09/12/2012 10:07 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-11-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-11-A		480-80648	480-80564	09/14/2012 12:08	1	TAL BUF	JRK

Lab ID: 480-25068-12 **Client ID:** FB-091212

Sample Date/Time: 09/12/2012 11:00 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-12-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-12-A		480-80667	480-80566	09/14/2012 13:11	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-25068-1

Laboratory Chronicle

Lab ID: 480-25068-13 **Client ID:** MR-GW-MW-1SS-13I-U

Sample Date/Time: 09/10/2012 12:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-13-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-13-A		480-80667	480-80566	09/14/2012 13:14	1	TAL BUF	JRK

Lab ID: 480-25068-14 **Client ID:** MR-GW-MW-1SS-12I-U

Sample Date/Time: 09/10/2012 14:15 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-14-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-14-A		480-80667	480-80566	09/14/2012 13:16	1	TAL BUF	JRK

Lab ID: 480-25068-15 **Client ID:** MR-GW-MW-1SS-13D-U

Sample Date/Time: 09/10/2012 16:15 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-15-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-15-A		480-80667	480-80566	09/14/2012 13:18	1	TAL BUF	JRK

Lab ID: 480-25068-16 **Client ID:** MR-GW-MW-1SS-13I-F

Sample Date/Time: 09/10/2012 12:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-16-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-16-A		480-80648	480-80564	09/14/2012 12:10	1	TAL BUF	JRK

Lab ID: 480-25068-17 **Client ID:** MR-GW-MW-1SS-12I-F

Sample Date/Time: 09/10/2012 14:15 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-17-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-17-A		480-80648	480-80564	09/14/2012 12:15	1	TAL BUF	JRK

Lab ID: 480-25068-18 **Client ID:** MR-GW-MW-1SS-13D-F

Sample Date/Time: 09/10/2012 16:15 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-18-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-18-A		480-80648	480-80564	09/14/2012 12:17	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-25068-1

Laboratory Chronicle

Lab ID: **480-25068-19** **Client ID:** **MR-GW-MW-1SS-12D-U**

Sample Date/Time: 09/11/2012 08:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-19-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-19-A		480-80667	480-80566	09/14/2012 13:20	1	TAL BUF	JRK

Lab ID: **480-25068-19** **Client ID:** **MR-GW-MW-1SS-12D-U**

Sample Date/Time: 09/11/2012 08:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-19-B MS		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-19-B MS		480-80667	480-80566	09/14/2012 13:28	1	TAL BUF	JRK

Lab ID: **480-25068-19** **Client ID:** **MR-GW-MW-1SS-12D-U**

Sample Date/Time: 09/11/2012 08:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-19-C MSD		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-19-C MSD		480-80667	480-80566	09/14/2012 13:30	1	TAL BUF	JRK

Lab ID: **480-25068-19 SD** **Client ID:** **MR-GW-MW-1SS-12D-U**

Sample Date/Time: 09/11/2012 08:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-19-A SD ^5		480-80667	480-80566	09/14/2012 08:21	5	TAL BUF	JRK
A:7470A	480-25068-A-19-A SD ^5		480-80667	480-80566	09/14/2012 13:22	5	TAL BUF	JRK

Lab ID: **480-25068-20** **Client ID:** **MR-GW-MW-1SS-13S-U**

Sample Date/Time: 09/11/2012 10:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-20-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-20-A		480-80667	480-80566	09/14/2012 13:32	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-25068-1

Laboratory Chronicle

Lab ID: 480-25068-21 **Client ID:** MR-GW-MW-1SS-12S-U

Sample Date/Time: 09/11/2012 12:25 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-21-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-21-A		480-80667	480-80566	09/14/2012 13:33	1	TAL BUF	JRK

Lab ID: 480-25068-22 **Client ID:** MR-GW-MW-1SS-11I-U

Sample Date/Time: 09/11/2012 14:45 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-22-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-22-A		480-80667	480-80566	09/14/2012 13:35	1	TAL BUF	JRK

Lab ID: 480-25068-23 **Client ID:** MR-GW-MW-1SS-10I-U

Sample Date/Time: 09/11/2012 15:40 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-23-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-23-A		480-80667	480-80566	09/14/2012 13:37	1	TAL BUF	JRK

Lab ID: 480-25068-24 **Client ID:** MR-GW-MW-1SS-12D-F

Sample Date/Time: 09/11/2012 08:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-24-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-24-A		480-80648	480-80564	09/14/2012 12:18	1	TAL BUF	JRK

Lab ID: 480-25068-24 **Client ID:** MR-GW-MW-1SS-12D-F

Sample Date/Time: 09/11/2012 08:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-24-B MS		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-24-B MS		480-80648	480-80564	09/14/2012 12:22	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-25068-1

Laboratory Chronicle

Lab ID: **480-25068-24** **Client ID:** **MR-GW-MW-1SS-12D-F**

Sample Date/Time: 09/11/2012 08:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-24-C MSD		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-24-C MSD		480-80648	480-80564	09/14/2012 12:24	1	TAL BUF	JRK

Lab ID: **480-25068-24 SD** **Client ID:** **MR-GW-MW-1SS-12D-F**

Sample Date/Time: 09/11/2012 08:20 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-24-A SD ^5		480-80648	480-80564	09/14/2012 08:45	5	TAL BUF	JRK
A:7470A	480-25068-A-24-A SD ^5		480-80648	480-80564	09/14/2012 12:20	5	TAL BUF	JRK

Lab ID: **480-25068-25** **Client ID:** **MR-GW-MW-1SS-11S-U**

Sample Date/Time: 09/12/2012 11:11 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-25-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-25-A		480-80667	480-80566	09/14/2012 13:39	1	TAL BUF	JRK

Lab ID: **480-25068-26** **Client ID:** **MR-GW-MW-1SS-11S-F**

Sample Date/Time: 09/12/2012 11:11 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-26-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-26-A		480-80648	480-80564	09/14/2012 12:26	1	TAL BUF	JRK

Lab ID: **480-25068-27** **Client ID:** **MR-GW-MW-1SS-10S-U**

Sample Date/Time: 09/12/2012 13:45 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-27-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	480-25068-A-27-A		480-80667	480-80566	09/14/2012 13:41	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-25068-1

Laboratory Chronicle

Lab ID: **480-25068-28** **Client ID:** **MR-GW-MW-1SS-10S-F**

Sample Date/Time: 09/12/2012 13:45 Received Date/Time: 09/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-25068-A-28-A		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	480-25068-A-28-A		480-80648	480-80564	09/14/2012 12:28	1	TAL BUF	JRK

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	MB 480-80230/11-B		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	MB 480-80230/11-B		480-80648	480-80564	09/14/2012 11:33	1	TAL BUF	JRK
P:7470A	MB 480-80566/1-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	MB 480-80566/1-A		480-80667	480-80566	09/14/2012 12:57	1	TAL BUF	JRK

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LCS 480-80230/12-B		480-80648	480-80564	09/14/2012 08:45	1	TAL BUF	JRK
A:7470A	LCS 480-80230/12-B		480-80648	480-80564	09/14/2012 11:34	1	TAL BUF	JRK
P:7470A	LCS 480-80566/2-A		480-80667	480-80566	09/14/2012 08:21	1	TAL BUF	JRK
A:7470A	LCS 480-80566/2-A		480-80667	480-80566	09/14/2012 12:59	1	TAL BUF	JRK

Lab References:
TAL BUF = TestAmerica Buffalo

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-25068-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-GW-MW-1SS-13S-F	480-25068-1
MR-GW-MW-1SS-12S-F	480-25068-2
MR-GW-MW-1SS-11I-F	480-25068-3
MR-GW-MW-1SS-10I-F	480-25068-4
FB-091112	480-25068-5
DUP-091012-F	480-25068-6
DUP-091012-U	480-25068-7
MR-GW-MW-1SS-11D-U	480-25068-8
MR-GW-MW-1SS-11D-F	480-25068-9
MR-GW-MW-1SS-10D-U	480-25068-10
MR-GW-MW-1SS-10D-F	480-25068-11
FB-091212	480-25068-12
MR-GW-MW-1SS-13I-U	480-25068-13
MR-GW-MW-1SS-12I-U	480-25068-14
MR-GW-MW-1SS-13D-U	480-25068-15
MR-GW-MW-1SS-13I-F	480-25068-16
MR-GW-MW-1SS-12I-F	480-25068-17
MR-GW-MW-1SS-13D-F	480-25068-18
MR-GW-MW-1SS-12D-U	480-25068-19
MR-GW-MW-1SS-13S-U	480-25068-20
MR-GW-MW-1SS-12S-U	480-25068-21
MR-GW-MW-1SS-11I-U	480-25068-22
MR-GW-MW-1SS-10I-U	480-25068-23
MR-GW-MW-1SS-12D-F	480-25068-24
MR-GW-MW-1SS-11S-U	480-25068-25
MR-GW-MW-1SS-11S-F	480-25068-26
MR-GW-MW-1SS-10S-U	480-25068-27
MR-GW-MW-1SS-10S-F	480-25068-28

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-13S-F
Lab Sample ID: 480-25068-1
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/11/2012 10:20
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-12S-F
Lab Sample ID: 480-25068-2
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/11/2012 12:25
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-11I-F
Lab Sample ID: 480-25068-3
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/11/2012 14:45
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-10I-F
Lab Sample ID: 480-25068-4
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/11/2012 15:40
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB-091112

Lab Sample ID: 480-25068-5

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/11/2012 10:30

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: DUP-091012-F
Lab Sample ID: 480-25068-6
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/10/2012 00:00
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP-091012-U
Lab Sample ID: 480-25068-7
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/10/2012 00:00
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-11D-U

Lab Sample ID: 480-25068-8

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/12/2012 08:36

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-11D-F
Lab Sample ID: 480-25068-9
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2012 08:36
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-10D-U

Lab Sample ID: 480-25068-10

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/12/2012 10:07

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	1.9	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-10D-F
Lab Sample ID: 480-25068-11
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2012 10:07
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	0.53	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB-091212
Lab Sample ID: 480-25068-12
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2012 11:00
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-13I-U

Lab Sample ID: 480-25068-13

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/10/2012 12:20

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-12I-U

Lab Sample ID: 480-25068-14

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/10/2012 14:15

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-13D-U

Lab Sample ID: 480-25068-15

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/10/2012 16:15

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.33	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-13I-F
Lab Sample ID: 480-25068-16
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/10/2012 12:20
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-12I-F
Lab Sample ID: 480-25068-17
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/10/2012 14:15
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-13D-F
Lab Sample ID: 480-25068-18
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/10/2012 16:15
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-12D-U

Lab Sample ID: 480-25068-19

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/11/2012 08:20

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-13S-U

Lab Sample ID: 480-25068-20

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/11/2012 10:20

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-12S-U

Lab Sample ID: 480-25068-21

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/11/2012 12:25

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.30	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-11I-U

Lab Sample ID: 480-25068-22

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/11/2012 14:45

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-10I-U

Lab Sample ID: 480-25068-23

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/11/2012 15:40

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-12D-F
Lab Sample ID: 480-25068-24
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/11/2012 08:20
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-11S-U

Lab Sample ID: 480-25068-25

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/12/2012 11:11

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.64	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-11S-F
Lab Sample ID: 480-25068-26
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2012 11:11
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	0.51	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-MW-1SS-10S-U

Lab Sample ID: 480-25068-27

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG ID.:

Matrix: Water

Date Sampled: 09/12/2012 13:45

Reporting Basis: WET

Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-MW-1SS-10S-F
Lab Sample ID: 480-25068-28
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2012 13:45
Reporting Basis: WET
Date Received: 09/13/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20		ug/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

ICV Source: MEH_HG2_WKG_00184 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00184

Analyte	ICV 480-80667/1 09/14/2012 11:50				CCV 480-80667/28 09/14/2012 12:39				CCV 480-80667/40 09/14/2012 13:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00288		0.00300	96	0.00192		0.00200	96	0.00191		0.00200	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

ICV Source: MEH_HG2_WKG_00184 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00184

Analyte	CCV 480-80667/52 09/14/2012 13:24				CCV 480-80667/64 09/14/2012 13:47							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00190		0.00200	95	0.00192		0.00200	96				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

ICV Source: MEH_HG2_WKG_00184 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00184

Analyte	ICV 480-80648/1 09/14/2012 11:23				CCV 480-80648/4 09/14/2012 11:29				CCV 480-80648/16 09/14/2012 11:50			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00291		0.00300	97	0.00194		0.00200	97	0.00197		0.00200	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

ICV Source: MEH_HG2_WKG_00184 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00184

Analyte	CCV 480-80648/28 09/14/2012 12:11				CCV 480-80648/39 09/14/2012 12:32							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00193		0.00200	97	0.00193		0.00200	97				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN2

Lab Sample ID: CRA 480-80667/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00184

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		88	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN3

Lab Sample ID: CRA 480-80648/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00184

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Dissolved	0.000200	ND		79	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-80667/2 09/14/2012 11:52		CCB 480-80667/29 09/14/2012 12:41		CCB 480-80667/41 09/14/2012 13:02		CCB 480-80667/53 09/14/2012 13:26	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-80667/65 09/14/2012 13:48							
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-80648/2 09/14/2012 11:25		CCB 480-80648/5 09/14/2012 11:31		CCB 480-80648/17 09/14/2012 11:51		CCB 480-80648/29 09/14/2012 12:13	
		Found	C	Found	C	Found	C	Found	C
Mercury, Dissolved	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-80648/40 09/14/2012 12:34							
		Found	C	Found	C	Found	C	Found	C
Mercury, Dissolved	0.00020	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-80230/11-B

Instrument Code: LEEMAN3 Batch No.: 80648

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Dissolved	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-80566/1-A

Instrument Code: LEEMAN2 Batch No.: 80667

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MR-GW-MW-1SS-12D-U MS

Lab ID: 480-25068-19 MS

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Total	6.52		ND		6.67	98	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MR-GW-MW-1SS-12D-F MS
Lab ID: 480-25068-24 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Dissolved	6.33		ND		6.67	95	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MR-GW-MW-1SS-12D-U MSD

Lab ID: 480-25068-19 MSD

Lab Name: TestAmerica Buffalo

Job No.: 480-25068-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Total	6.55		6.67	98	75-125	1	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MR-GW-MW-1SS-12D-F MSD
Lab ID: 480-25068-24 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-25068-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Dissolved	6.43		6.67	96	75-125	2	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-80230/12-B

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00184

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Dissolved	6.67	6.67		100	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-80566/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00184

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.35		95	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-25068-19

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-25068-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Total	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 480-25068-24

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-25068-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Dissolved	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-25068-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A RL Date: 08/11/2009 14:02

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	
Mercury, Total	253.7	0.0002	

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-25068-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-25068-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A RL Date: 08/11/2009 14:02

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	
Mercury, Dissolved	253.7	0.0002	

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-25068-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Dissolved	253.7	0.0002	0.00012

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-25068-1

SDG No.:

Instrument ID: LEEMAN2 Date: 03/20/2012 10:04

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Total	10	10	7470A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-25068-1

SDG No.:

Instrument ID: LEEMAN3 Date: 03/20/2012 10:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Dissolved	10	10	7470A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-80230/11-B	09/14/2012 08:45	80564		30	50
LCS 480-80230/12-B	09/14/2012 08:45	80564		30	50
480-25068-1	09/14/2012 08:45	80564		30	50
480-25068-2	09/14/2012 08:45	80564		30	50
480-25068-3	09/14/2012 08:45	80564		30	50
480-25068-4	09/14/2012 08:45	80564		30	50
480-25068-6	09/14/2012 08:45	80564		30	50
480-25068-9	09/14/2012 08:45	80564		30	50
480-25068-11	09/14/2012 08:45	80564		30	50
480-25068-16	09/14/2012 08:45	80564		30	50
480-25068-17	09/14/2012 08:45	80564		30	50
480-25068-18	09/14/2012 08:45	80564		30	50
480-25068-24	09/14/2012 08:45	80564		30	50
480-25068-24 MS	09/14/2012 08:45	80564		30	50
480-25068-24 MSD	09/14/2012 08:45	80564		30	50
480-25068-26	09/14/2012 08:45	80564		30	50
480-25068-28	09/14/2012 08:45	80564		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-80566/1-A	09/14/2012 08:21	80566		30	50
LCS 480-80566/2-A	09/14/2012 08:21	80566		30	50
480-25068-5	09/14/2012 08:21	80566		30	50
480-25068-7	09/14/2012 08:21	80566		30	50
480-25068-8	09/14/2012 08:21	80566		30	50
480-25068-10	09/14/2012 08:21	80566		30	50
480-25068-12	09/14/2012 08:21	80566		30	50
480-25068-13	09/14/2012 08:21	80566		30	50
480-25068-14	09/14/2012 08:21	80566		30	50
480-25068-15	09/14/2012 08:21	80566		30	50
480-25068-19	09/14/2012 08:21	80566		30	50
480-25068-19 MS	09/14/2012 08:21	80566		30	50
480-25068-19 MSD	09/14/2012 08:21	80566		30	50
480-25068-20	09/14/2012 08:21	80566		30	50
480-25068-21	09/14/2012 08:21	80566		30	50
480-25068-22	09/14/2012 08:21	80566		30	50
480-25068-23	09/14/2012 08:21	80566		30	50
480-25068-25	09/14/2012 08:21	80566		30	50
480-25068-27	09/14/2012 08:21	80566		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 09/14/2012 11:50 End Date: 09/14/2012 14:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-80667/1	1		11:50	X																			
ICB 480-80667/2	1		11:52	X																			
CRA 480-80667/3	1		11:54	X																			
CCV 480-80667/4			11:55																				
CCB 480-80667/5			11:58																				
ZZZZZZ			12:00																				
ZZZZZZ			12:01																				
ZZZZZZ			12:03																				
ZZZZZZ			12:05																				
ZZZZZZ			12:07																				
ZZZZZZ			12:08																				
ZZZZZZ			12:10																				
ZZZZZZ			12:12																				
ZZZZZZ			12:14																				
ZZZZZZ			12:16																				
CCV 480-80667/16			12:18																				
CCB 480-80667/17			12:19																				
ZZZZZZ			12:21																				
ZZZZZZ			12:22																				
ZZZZZZ			12:25																				
ZZZZZZ			12:26																				
ZZZZZZ			12:28																				
ZZZZZZ			12:29																				
ZZZZZZ			12:31																				
ZZZZZZ			12:33																				
ZZZZZZ			12:35																				
ZZZZZZ			12:37																				
CCV 480-80667/28	1		12:39	X																			
CCB 480-80667/29	1		12:41	X																			
ZZZZZZ			12:43																				
ZZZZZZ			12:45																				
ZZZZZZ			12:47																				
ZZZZZZ			12:48																				
ZZZZZZ			12:50																				
ZZZZZZ			12:51																				
ZZZZZZ			12:54																				
ZZZZZZ			12:55																				
MB 480-80566/1-A	1	T	12:57	X																			
LCS 480-80566/2-A	1	T	12:59	X																			
CCV 480-80667/40	1		13:00	X																			
CCB 480-80667/41	1		13:02	X																			
480-25068-5	1	T	13:04	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 09/14/2012 11:50 End Date: 09/14/2012 14:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
480-25068-7	1	T	13:06	X																			
480-25068-8	1	T	13:08	X																			
480-25068-10	1	T	13:10	X																			
480-25068-12	1	T	13:11	X																			
480-25068-13	1	T	13:14	X																			
480-25068-14	1	T	13:16	X																			
480-25068-15	1	T	13:18	X																			
480-25068-19	1	T	13:20	X																			
480-25068-19 SD	5	T	13:22	X																			
CCV 480-80667/52	1		13:24	X																			
CCB 480-80667/53	1		13:26	X																			
480-25068-19 MS	1	T	13:28	X																			
480-25068-19 MSD	1	T	13:30	X																			
480-25068-20	1	T	13:32	X																			
480-25068-21	1	T	13:33	X																			
480-25068-22	1	T	13:35	X																			
480-25068-23	1	T	13:37	X																			
480-25068-25	1	T	13:39	X																			
480-25068-27	1	T	13:41	X																			
ZZZZZZ			13:43																				
ZZZZZZ			13:45																				
CCV 480-80667/64	1		13:47	X																			
CCB 480-80667/65	1		13:48	X																			
ZZZZZZ			13:50																				
ZZZZZZ			13:52																				
ZZZZZZ			13:54																				
CRA 480-80667/69			13:56																				
CCV 480-80667/70			13:58																				
CCB 480-80667/71			14:00																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 09/14/2012 11:23 End Date: 09/14/2012 12:34

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-80648/1	1		11:23	X																			
ICB 480-80648/2	1		11:25	X																			
CRA 480-80648/3	1		11:27	X																			
CCV 480-80648/4	1		11:29	X																			
CCB 480-80648/5	1		11:31	X																			
MB 480-80230/11-B	1	D	11:33	X																			
LCS 480-80230/12-B	1	D	11:34	X																			
ZZZZZZ			11:36																				
ZZZZZZ			11:38																				
ZZZZZZ			11:40																				
ZZZZZZ			11:41																				
ZZZZZZ			11:43																				
ZZZZZZ			11:45																				
ZZZZZZ			11:46																				
ZZZZZZ			11:48																				
CCV 480-80648/16	1		11:50	X																			
CCB 480-80648/17	1		11:51	X																			
ZZZZZZ			11:53																				
ZZZZZZ			11:54																				
480-25068-1	1	D	11:56	X																			
480-25068-2	1	D	11:59	X																			
480-25068-3	1	D	12:00	X																			
480-25068-4	1	D	12:02	X																			
480-25068-6	1	D	12:04	X																			
480-25068-9	1	D	12:06	X																			
480-25068-11	1	D	12:08	X																			
480-25068-16	1	D	12:10	X																			
CCV 480-80648/28	1		12:11	X																			
CCB 480-80648/29	1		12:13	X																			
480-25068-17	1	D	12:15	X																			
480-25068-18	1	D	12:17	X																			
480-25068-24	1	D	12:18	X																			
480-25068-24 SD	5	D	12:20	X																			
480-25068-24 MS	1	D	12:22	X																			
480-25068-24 MSD	1	D	12:24	X																			
480-25068-26	1	D	12:26	X																			
480-25068-28	1	D	12:28	X																			
CRA 480-80648/38			12:30																				
CCV 480-80648/39	1		12:32	X																			
CCB 480-80648/40	1		12:34	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 09/14/2012 11:23 End Date: 09/14/2012 12:34

Prep Types
D = Dissolved

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧

Protocol hgppb

Dataset/Proto H09142W1/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.50786e-5

C -5.26850e-2

rho .999989

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs.
667550

Accepted

New

Conc. 10.0

Include S7 Rep 1 2 3 4 5

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.003	-.003	3303	384	3747	3078	3085
02	.20000	.198	-.002	16632	3.3%	16330	16299	17266
03	1.0000	1.02	.018	71040	0.16%	70996	71169	70954
04	2.0000	2.01	.005	136493	0.35%	136943	136547	135990
05	5.0000	4.97	-.032	332955	0.23%	333836	332625	332404
06	10.000	10.0	.013	667551	0.16%	668207	666328	668118

Ready CAP NUM

L2
9/14/12

80600

Cal: H09142C1

Run: H09142W1

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2ICV Seq: 3 11:50:38 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.0	2.88	3.00	ppb	.000

80600

*** Check Standard: 1 Ck1ICB Seq: 4 11:52:28 14 Sep 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.022	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 5 11:54:03 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		87.4	.175	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 6 11:55:39 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.3	1.93	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 7 11:58:05 14 Sep 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.016	.200	ppb	.000

*** Sample ID: Seq: 8 12:00:04 14 Sep 12 HG
mb 480-80565/1-a

Hg	-.007	ppb	.000	-.007

*** Sample ID: Seq: 9 12:01:41 14 Sep 12 HG
lcs 480-80565/2-a

Hg	3.80	ppb	.000	3.80

*** Sample ID: Seq: 10 12:03:26 14 Sep 12 HG
480-25088-c-1-a

Hg	-.025	ppb	.000	-.025

*** Sample ID: Seq: 11 12:05:17 14 Sep 12 HG
480-25088-c-2-a

Hg	.001	ppb	.000	.001

*** Sample ID: Seq: 12 12:07:05 14 Sep 12 HG
480-25088-c-3-a

Hg	-.016	ppb	.000	-.016

*** Sample ID: Seq: 13 12:08:41 14 Sep 12 HG
480-25088-c-4-a

Hg	-.011	ppb	.000	-.011

*** Sample ID: Seq: 14 12:10:20 14 Sep 12 HG
480-25088-c-5-a

Hg	-.000	ppb	.000	-.000

*** Sample ID: Seq: 15 12:12:16 14 Sep 12 HG
480-25088-c-6-a

Hg	-.007	ppb	.000	-.007

*** Sample ID: Seq: 16 12:14:44 14 Sep 12 HG
480-25088-c-7-a

Hg	-.002	ppb	.000	-.002

*** Sample ID: Seq: 17 12:16:23 14 Sep 12 HG
480-25088-c-8-a

Hg	-.018	ppb	.000	-.018

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 18 12:18:04 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.0	1.92	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 19 12:19:41 14 Sep 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.016	.200	ppb	.000

*** Sample ID: Seq: 20 12:21:18 14 Sep 12 HG
480-25088-c-9-a

Hg	-.016	ppb	.000	-.016

*** Sample ID: Seq: 21 12:22:54 14 Sep 12 HG
480-25088-c-10-a

Hg	-.006	ppb	.000	-.006

*** Sample ID: Seq: 22 12:25:05 14 Sep 12 HG
480-25088-c-11-a

Hg	-.002	ppb	.000	-.002

*** Sample ID: Seq: 23 12:26:40 14 Sep 12 HG
480-25088-c-12-a

Hg	-.014	ppb	.000	-.014

*** Sample ID: Seq: 24 12:28:17 14 Sep 12 HG
480-25088-c-13-a

Hg	.002	ppb	.000	.002

*** Sample ID: Seq: 25 12:29:54 14 Sep 12 HG
480-25088-c-13-a SD@

Hg	-.028	ppb	.000	-.028

*** Sample ID: Seq: 26 12:31:41 14 Sep 12 HG
480-25088-c-13-b ms

Hg	3.63	ppb	.000	3.63

*** Sample ID: Seq: 27 12:33:30 14 Sep 12 HG
480-25088-c-13-c msd

Hg	3.92	ppb	.000	3.92

*** Sample ID: Seq: 28 12:35:22 14 Sep 12 HG
480-25088-c-14-a

Hg	-.016	ppb	.000	-.016

*** Sample ID: Seq: 29 12:37:32 14 Sep 12 HG
480-25086-f-1-a

Hg	-.005	ppb	.000	-.005

*** Check Standard: 3 Ck3CCV Seq: 30 12:39:22 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.1	1.92	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 31 12:41:50 14 Sep 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.015	.200	ppb	.000

*** Sample ID: Seq: 32 12:43:27 14 Sep 12 HG
480-25029-c-6-d

Hg	-.022	ppb	.000	-.022

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                        Seq:  33     12:45:24 14 Sep 12   HG
                          480-25029-c-6-d SD@5
Hg   -.038    ppb       .000     -.038

*** Sample ID:                        Seq:  34     12:47:06 14 Sep 12   HG
                          480-25029-c-6-e ms
Hg    3.83    ppb       .000      3.83

*** Sample ID:                        Seq:  35     12:48:42 14 Sep 12   HG
                          480-25029-c-6-f msd
Hg    3.85    ppb       .000      3.85

*** Sample ID:                        Seq:  36     12:50:17 14 Sep 12   HG
                          480-25029-c-7-b
Hg   -.033    ppb       .000     -.033

*** Sample ID:                        Seq:  37     12:51:54 14 Sep 12   HG
                          480-25029-c-8-b
Hg   -.014    ppb       .000     -.014

*** Sample ID:                        Seq:  38     12:54:03 14 Sep 12   HG
                          480-25029-c-9-b
Hg   -.009    ppb       .000     -.009

*** Sample ID:                        Seq:  39     12:55:55 14 Sep 12   HG
                          480-25029-c-10-b
Hg   -.006    ppb       .000     -.006

*** Sample ID:                        Seq:  40     12:57:31 14 Sep 12   HG
                          mb 480-80566/1-a
Hg   -.011    ppb       .000     -.011

*** Sample ID:                        Seq:  41     12:59:19 14 Sep 12   HG
                          lcs 480-80566/2-a
Hg    3.81    ppb       .000      3.81

*** Check Standard: 3  Ck3CCV         Seq:  42     13:00:59 14 Sep 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.4    1.91     2.00  ppb        .000

*** Check Standard: 1  Ck1CCB         Seq:  43     13:02:55 14 Sep 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.020     .200     ppb        .000

*** Sample ID:                        Seq:  44     13:04:41 14 Sep 12   HG
                          480-25068-a-5-a
Hg   -.006    ppb       .000     -.006

*** Sample ID:                        Seq:  45     13:06:44 14 Sep 12   HG
                          480-25068-a-7-a
Hg    .055    ppb       .000      .055

*** Sample ID:                        Seq:  46     13:08:23 14 Sep 12   HG
                          480-25068-a-8-a
Hg    .073    ppb       .000      .073

*** Sample ID:                        Seq:  47     13:10:01 14 Sep 12   HG
                          480-25068-a-10-a
Hg    1.15    ppb       .000      1.15
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 48 13:11:39 14 Sep 12 HG
480-25068-a-12-a
Hg -.026 ppb .000 -.026

*** Sample ID: Seq: 49 13:14:05 14 Sep 12 HG
480-25068-a-13-a
Hg .090 ppb .000 .090

*** Sample ID: Seq: 50 13:16:53 14 Sep 12 HG
480-25068-a-14-a
Hg .048 ppb .000 .048

*** Sample ID: Seq: 51 13:18:34 14 Sep 12 HG
480-25068-a-15-a
Hg .197 ppb .000 .197

*** Sample ID: Seq: 52 13:20:25 14 Sep 12 HG
480-25068-a-19-a
Hg .044 ppb .000 .044

*** Sample ID: Seq: 53 13:22:12 14 Sep 12 HG
25068-a-19-a SD@5
Hg -.021 ppb .000 -.021

*** Check Standard: 3 Ck3CCV Seq: 54 13:24:18 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.0	1.90	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 55 13:26:00 14 Sep 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.019	.200	ppb	.000

*** Sample ID: Seq: 56 13:28:15 14 Sep 12 HG
25068-a-19-b ms
Hg 3.91 ppb .000 3.91

*** Sample ID: Seq: 57 13:30:38 14 Sep 12 HG
25068-a-19-c msd
Hg 3.93 ppb .000 3.93

*** Sample ID: Seq: 58 13:32:16 14 Sep 12 HG
480-25068-a-20-a
Hg .030 ppb .000 .030

*** Sample ID: Seq: 59 13:33:54 14 Sep 12 HG
480-25068-a-21-a
Hg .182 ppb .000 .182

*** Sample ID: Seq: 60 13:35:41 14 Sep 12 HG
480-25068-a-22-a
Hg -.001 ppb .000 -.001

*** Sample ID: Seq: 61 13:37:17 14 Sep 12 HG
480-25068-a-23-a
Hg -.025 ppb .000 -.025

*** Sample ID: Seq: 62 13:39:33 14 Sep 12 HG
480-25068-a-25-a
Hg .382 ppb .000 .382

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                        Seq:  63     13:41:31 14 Sep 12   HG
                          480-25068-a-27-a
Hg    .016    ppb       .000      .016

*** Sample ID:                        Seq:  64     13:43:28 14 Sep 12   HG
                          480-25034-e-1-c
Hg   -.017    ppb       .000     -.017

*** Sample ID:                        Seq:  65     13:45:15 14 Sep 12   HG
                          480-25034-e-2-c
Hg   -.013    ppb       .000     -.013

*** Check Standard: 3  Ck3CCV       Seq:  66     13:47:05 14 Sep 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.2     1.92    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  67     13:48:51 14 Sep 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .008     .200     ppb        .000

*** Sample ID:                        Seq:  68     13:50:28 14 Sep 12   HG
                          480-25034-e-3-c
Hg   -.034    ppb       .000     -.034

*** Sample ID:                        Seq:  69     13:52:25 14 Sep 12   HG
                          480-25053-f-4-b
Hg    .882    ppb       .000      .882

*** Sample ID:                        Seq:  70     13:54:22 14 Sep 12   HG
                          480-25071-e-1-d
Hg   -.010    ppb       .000     -.010

*** Check Standard: 4  Ck4CRA       Seq:  71     13:56:03 14 Sep 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          90.2     .180    .200   ppb        .000

*** Check Standard: 3  Ck3CCV       Seq:  72     13:58:09 14 Sep 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          94.1     1.88    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  73     14:00:19 14 Sep 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.017     .200     ppb        .000
```

WinHg Database

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto J09142D1/hgppb

Protocol | Line Info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.15772e-5

C -8.09956e-2

rho .999926

☑ Calibrated

☑ Accepted

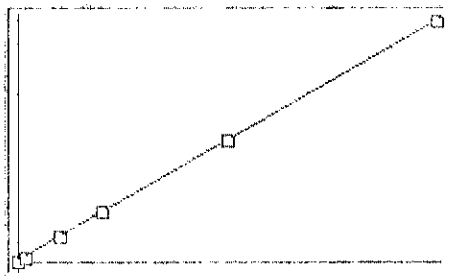
Accept

Type Linear

Rel. Abs.
867418

Accepted

New



Include S8 Rep

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.041	-.041	3482	2680	6454	2745	1247
02	.20000	.154	-.046	20260	1.58%	19890	20432	20459
03	1.0000	1.02	.024	95460	1.76%	94460	94518	97403
04	2.0000	2.05	.049	183989	1.1%	186313	183106	182549
05	5.0000	5.05	.053	443419	0.34%	445000	443285	441970
06	10.000	9.96	-.039	867419	0.53%	872685	864643	864928

Ready CAP NUM

L3

9/14/12

80600

Cal: J09142C1

Run: J09142D1

Batches: 80564

Protocol: hgppb

POST-RUN REPORT

Line Conc. Units SD/RSD 1 2 3 4 5

80600

*** Check Standard: 2 Ck2ICV Seq: 1 11:23:42 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.0	2.91	3.00	ppb	.000

*** Check Standard: 1 Ck1ICB Seq: 2 11:25:50 14 Sep 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.033	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 11:27:35 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		78.8	.158	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 11:29:51 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.8	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 11:31:27 14 Sep 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.008	.200	ppb	.000

*** Sample ID: Seq: 6 11:33:16 14 Sep 12 HG
mb 480-80230/11-b

Hg	-.062	ppb	.000	-.062

*** Sample ID: Seq: 7 11:34:52 14 Sep 12 HG
lcs 480-80230/12-b

Hg	4.00	ppb	.000	4.00

*** Sample ID: Seq: 8 11:36:57 14 Sep 12 HG
480-24904-e-5-b

Hg	-.038	ppb	.000	-.038

*** Sample ID: Seq: 9 11:38:34 14 Sep 12 HG
480-24904-b-4-b

Hg	-.012	ppb	.000	-.012

*** Sample ID: Seq: 10 11:40:12 14 Sep 12 HG
480-24936-g-3-c

Hg	-.040	ppb	.000	-.040

*** Sample ID: Seq: 11 11:41:50 14 Sep 12 HG
480-24936-g-4-c

Hg	-.010	ppb	.000	-.010

*** Sample ID: Seq: 12 11:43:26 14 Sep 12 HG
480-24936-g-5-g

Hg	-.005	ppb	.000	-.005

*** Sample ID: Seq: 13 11:45:06 14 Sep 12 HG
480-24936-g-5-g SD@5

Hg	-.054	ppb	.000	-.054

*** Sample ID: Seq: 14 11:46:46 14 Sep 12 HG
480-24936-g-5-h ms

Hg	3.92	ppb	.000	3.92

*** Sample ID: Seq: 15 11:48:28 14 Sep 12 HG
480-24936-g-5-i msd

Hg	3.97	ppb	.000	3.97

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV       Seq:  16      11:50:05 14 Sep 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.6     1.97    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  17      11:51:43 14 Sep 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.037     .200     ppb        .000

*** Sample ID:                      Seq:  18      11:53:20 14 Sep 12   HG
                          480-24936-g-6-c
Hg   -.034    ppb       .000     -.034

*** Sample ID:                      Seq:  19      11:54:58 14 Sep 12   HG
                          480-24996-g-2-d
Hg   -.019    ppb       .000     -.019

*** Sample ID:                      Seq:  20      11:56:56 14 Sep 12   HG
                          480-25068-a-1-a
Hg   -.016    ppb       .000     -.016

*** Sample ID:                      Seq:  21      11:59:12 14 Sep 12   HG
                          480-25068-a-2-a
Hg    .082    ppb       .000      .082

*** Sample ID:                      Seq:  22      12:00:53 14 Sep 12   HG
                          480-25068-a-3-a
Hg   -.033    ppb       .000     -.033

*** Sample ID:                      Seq:  23      12:02:28 14 Sep 12   HG
                          480-25068-a-4-a
Hg   -.037    ppb       .000     -.037

*** Sample ID:                      Seq:  24      12:04:43 14 Sep 12   HG
                          480-25068-a-6-a
Hg   -.006    ppb       .000     -.006

*** Sample ID:                      Seq:  25      12:06:31 14 Sep 12   HG
                          480-25068-a-9-a
Hg   -.013    ppb       .000     -.013

*** Sample ID:                      Seq:  26      12:08:16 14 Sep 12   HG
                          480-25068-a-11-a
Hg    .316    ppb       .000      .316

*** Sample ID:                      Seq:  27      12:10:03 14 Sep 12   HG
                          480-25068-a-16-a
Hg    .037    ppb       .000      .037

*** Check Standard: 3  Ck3CCV       Seq:  28      12:11:44 14 Sep 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.6     1.93    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  29      12:13:53 14 Sep 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.026     .200     ppb        .000

*** Sample ID:                      Seq:  30      12:15:40 14 Sep 12   HG
                          480-25068-a-17-a
Hg    .010    ppb       .000      .010
```

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 12:17:18 14 Sep 12 HG
480-25068-a-18-a

Hg	-.008	ppb	.000	-.008

*** Sample ID: Seq: 32 12:18:58 14 Sep 12 HG
480-25068-a-24-a

Hg	-.031	ppb	.000	-.031

*** Sample ID: Seq: 33 12:20:57 14 Sep 12 HG
25068-a-24-a SD@5

Hg	-.037	ppb	.000	-.037

*** Sample ID: Seq: 34 12:22:52 14 Sep 12 HG
25068-a-24-b ms

Hg	3.80	ppb	.000	3.80

*** Sample ID: Seq: 35 12:24:30 14 Sep 12 HG
25068-a-24-c msd

Hg	3.86	ppb	.000	3.86

*** Sample ID: Seq: 36 12:26:09 14 Sep 12 HG
480-25068-a-26-a

Hg	.305	ppb	.000	.305

*** Sample ID: Seq: 37 12:28:06 14 Sep 12 HG
480-25068-a-28-a

Hg	.010	ppb	.000	.010

*** Check Standard: 4 Ck4CRA Seq: 38 12:30:34 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		61.9	.124	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 39 12:32:12 14 Sep 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.4	1.93	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 40 12:34:29 14 Sep 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.064	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Batch Number: 80564 Batch Start Date: 09/14/12 08:45 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00184			
MB 480-80230/11-A		7470A, 7470A		30 mL	50 mL				
LCS 480-80230/12-A		7470A, 7470A		30 mL	50 mL	2 mL			
480-25068-A-1	MR-GW-MW-1SS-13S -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-2	MR-GW-MW-1SS-12S -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-3	MR-GW-MW-1SS-11I -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-4	MR-GW-MW-1SS-10I -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-6	DUP-091012-F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-9	MR-GW-MW-1SS-11D -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-11	MR-GW-MW-1SS-10D -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-16	MR-GW-MW-1SS-13I -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-17	MR-GW-MW-1SS-12I -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-18	MR-GW-MW-1SS-13D -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-24	MR-GW-MW-1SS-12D -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-24 MS	MR-GW-MW-1SS-12D -F	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-25068-A-24 MSD	MR-GW-MW-1SS-12D -F	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-25068-A-26	MR-GW-MW-1SS-11S -F	7470A, 7470A	D	30 mL	50 mL				
480-25068-A-28	MR-GW-MW-1SS-10S -F	7470A, 7470A	D	30 mL	50 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Batch Number: 80564 Batch Start Date: 09/14/12 08:45 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Batch Notes	
Hydroxylamine Hydrochloride Lot	875930
Batch Comment	Prep Batch: 80600
Sulfuric Acid Lot Number	823533
Lot # of Nitric Acid	864613
Hot Block ID number	HG-C
Potassium Persulfate Lot Number	875928
Potassium Permanganate Lot Number	887663
Oven, Bath or Block Temperature 1	96.0 Celsius
Pipette ID	HGL-5
Stannous Chloride Lot Number	901778
ID number of the thermometer	A02-24-10
Digestion Tube/Cup Lot #	1204125
Uncorrected Temperature	96.0 Celsius

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Batch Number: 80566 Batch Start Date: 09/14/12 08:21 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00184			
MB 480-80566/1		7470A, 7470A		30 mL	50 mL				
LCS 480-80566/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-25068-A-5	FB-091112	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-7	DUP-091012-U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-8	MR-GW-MW-1SS-11D -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-10	MR-GW-MW-1SS-10D -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-12	FB-091212	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-13	MR-GW-MW-1SS-13I -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-14	MR-GW-MW-1SS-12I -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-15	MR-GW-MW-1SS-13D -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-19	MR-GW-MW-1SS-12D -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-19 MS	MR-GW-MW-1SS-12D -U	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-25068-A-19 MSD	MR-GW-MW-1SS-12D -U	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-25068-A-20	MR-GW-MW-1SS-13S -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-21	MR-GW-MW-1SS-12S -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-22	MR-GW-MW-1SS-11I -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-23	MR-GW-MW-1SS-10I -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-25	MR-GW-MW-1SS-11S -U	7470A, 7470A	T	30 mL	50 mL				
480-25068-A-27	MR-GW-MW-1SS-10S -U	7470A, 7470A	T	30 mL	50 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-25068-1

SDG No.:

Batch Number: 80566 Batch Start Date: 09/14/12 08:21 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Batch Notes	
Hydroxylamine Hydrochloride Lot	875930
Batch Comment	Prep Batch: 80600
Sulfuric Acid Lot Number	823533
Lot # of Nitric Acid	864613
Hot Block ID number	HG-A
Potassium Persulfate Lot Number	875928
Potassium Permanganate Lot Number	887663
Oven, Bath or Block Temperature 1	95.0 Celsius
Pipette ID	HGL-5
Stannous Chloride Lot Number	901778
ID number of the thermometer	A02-24-10
Digestion Tube/Cup Lot #	1204125
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Beam and Caldwell	Project Manager: Frank Williams	Date: 9/12/12	Chain of Custody Number: 223552
Address: 231 Hudson Avenue	Telephone Number (Area Code)/Fax Number: 518-472-1988	Lab Number	Page 2 of 3
City: Albany NY; State: NY; Zip Code: 12210	Site Contact: Bob Taylor	Lab Contact	
Project Name and Location (State): Mercer Colonie, NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): Merc-7-17-A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Merc-7-17-A
MA-GW-MW-1SS-13S-F	9/11/12	1020		X					X				1
MA-GW-MW 1SS-12S-F	9/11/12	1225		X					X				1
MA-GW-MW-1SS-11I-F	9/11/12	1445		X					X				1
MA-GW-MW 1SS-10I-F	9/11/12	1510		X					X				1
FB-091112	9/11/12	1030		X					X				1
DUP-091012-F	9/10/12	9999		X					X				1
DUP-091012-U	9/10/12	9999		X					X				1
MA-GW-MW 1SS-11D-U	9/12/12	0836		X					X				1
MA-GW-MW 1SS-11D-F	9/12/12	0836		X					X				1
MA-GW-MW-1SS-10D-U	9/12/12	1007		X					X				1
MA-GW-MW-1SS-10D-F	9/12/12	1007		X					X				1
FB-091212	9/12/12	1100		X					X				1

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☑ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By	Date 9/12/12	Time 1430	1. Received By	Date 9-12-12	Time 1430
2. Relinquished By	Date 9-12-12	Time 1700	2. Received By	Date 9/13/12	Time 0900
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

28#1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 9/12/12	Chain of Custody Number: 223551
Address: 234 Hudson Avenue	Telephone Number (Area Code)/Fax Number: 518-472-1988	Lab Number	Page 1 of 3
City: Albany; State: NY; Zip Code: 12210	Site Contact: Brian Taylor	Lab Contact	
Project Name and Location (State): Mercury Colonie, NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): Mercury 74/7471

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Mercury 74/7471	Special Instructions/ Conditions of Receipt
MR-GW-MW-15S-13I-U	9/10/12	1220		X					X				1	
MR-GW-MW-15S-12I-U	9/10/12	1415		X					X				1	
MR-GW-MW-15S-13D-U	9/10/12	1615		X					X				1	
MR-GW-MW-15S-13I-F	9/10/12	1220		X					X				1	
MR-GW-MW-15S-12I-F	9/10/12	1415		X					X				1	
MR-GW-MW-15S-13D-F	9/10/12	1615		X					X				1	
MR-GW-MW-15S-12D-U	9/11/12	0820		X					X				3	MS/MSD
MR-GW-MW-15S-13S-U	9/11/12	1020		X					X				1	
MR-GW-MW-15S-12S-U	9/11/12	1225		X					X				1	
MR-GW-MW-15S-11I-U	9/11/12	1445		X					X				1	
MR-GW-MW-15S-10I-U	9/11/12	1540		X					X				1	
MR-GW-MW-15S-12D-F	9/11/12	0820		X					X				3	MS/MSD

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☑ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By	Date 9/12/12	Time 1430	1. Received By	Date 9-12 12	Time 1430
2. Relinquished By	Date 9-12-12	Time 1700	2. Received By	Date 9/13/12	Time 0900
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

7.5#1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 9/12/12	Chain of Custody Number: 160288
Address: 234 Hudson Avenue	Telephone Number (Area Code)/Fax Number: 518-472-1988 518-472-1986	Lab Number:	Page 3 of 3
City: Albany; State: NY; Zip Code: 12210	Site Contact: Brian Taylor	Lab Contact:	
Project Name and Location (State): Mercer Colonie, NY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Mercury 7/12	Special Instructions/ Conditions of Receipt
MR-GW-MW-155 115-U	9/12/12	1111		X					X				1	
MR-GW-MW-155 115 F	9/12/12	1111		X					X				1	
MR-GW MW-155 165 U	9/12/12	1345		X					X				1	
MR-GW MW-155-165 F	9/12/12	1345		X					X				1	

BLQ 09-12-12

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☑ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	9/12/12	1430	1. Received By: [signature]	9-12-12	1430
2. Relinquished By: [signature]	9-12-12	1700	2. Received By: [signature]	9/13/12	0900
3. Relinquished By:			3. Received By:		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

2 of #1

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-25068-1

Login Number: 25068

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

ANALYTICAL REPORT

Job Number: 480-21850-1

Job Description: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, NJ 07401

Attention: Ms. Carolyn A Spinapolice

Approved for release.
Joe Giacomazza
Project Administrator
7/5/2012 3:36 PM

Designee for
Brian Fischer
Project Manager II
brian.fischer@testamericainc.com
07/05/2012

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Job Narrative
480-21850-1

Receipt
The samples were received on 6/27/2012 9:00 AM and 6/28/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0º C, 2.0º C and 2.0º C.

Metals
Method 7471A: The following sample was diluted due to the abundance of the target analyte total mercury: MR-1SS-DP-11-12-12.5 (480-21915-2), MR-1SS-DP-11-2-2.5 (480-21915-1), MR-1SS-DP-14-1.5-2 (480-21915-9). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-21850-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-21850-1	MR-SB-1SS-DP-10-1.5-2	Solid	06/26/2012 1400	06/27/2012 0900
480-21915-1	MR-1SS-DP-11-2-2.5	Solid	06/27/2012 0805	06/28/2012 0900
480-21915-2	MR-1SS-DP-11-12-12.5	Solid	06/27/2012 0820	06/28/2012 0900
480-21915-3	MR-1SS-DP-11-20-20.5	Solid	06/27/2012 0845	06/28/2012 0900
480-21915-4	MR-1SS-DP-11-28-28.5	Solid	06/27/2012 0855	06/28/2012 0900
480-21915-5	MR-1SS-DP-11-36-36.5	Solid	06/27/2012 0945	06/28/2012 0900
480-21915-6	MR-1SS-DP-11-44-44.5	Solid	06/27/2012 1015	06/28/2012 0900
480-21915-7	MR-1SS-DP-11-56-56.5	Solid	06/27/2012 1040	06/28/2012 0900
480-21915-8	MR-1SS-DP-11-64-64.5	Solid	06/27/2012 1050	06/28/2012 0900
480-21915-9	MR-1SS-DP-14-1.5-2	Solid	06/27/2012 1325	06/28/2012 0900
480-21915-10	MR-1SS-DP-14-8-8.5	Solid	06/27/2012 1335	06/28/2012 0900
480-21915-11	MR-1SS-DP-14-16-16.5	Solid	06/27/2012 1345	06/28/2012 0900
480-21915-12	MR-1SS-DP-14-24-24.5	Solid	06/27/2012 1400	06/28/2012 0900
480-21915-13	MR-1SS-DP-14-32-32.5	Solid	06/27/2012 1400	06/28/2012 0900
480-21915-14	MR-1SS-DP-14-40-40.5	Solid	06/27/2012 1420	06/28/2012 0900
480-21915-15	MR-1SS-DP-14-48-48.5	Solid	06/27/2012 1430	06/28/2012 0900
480-21915-16	MR-1SS-DP-14-56-56.5	Solid	06/27/2012 1445	06/28/2012 0900
480-21915-17	MR-1SS-DP-14-64-64.5	Solid	06/27/2012 1615	06/28/2012 0900
480-21917-1	MR-SB-1SS-DP-11-2-2.5	Solid	06/27/2012 0805	06/28/2012 0900
480-21917-2	MR-SB-1SS-DP-14-8-8.5	Solid	06/27/2012 1335	06/28/2012 0900

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-21850-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-21915-1	**MR-1SS-DP-11-2-2.5**					
Mercury, Total		2.5		0.40	mg/Kg	7471A
Percent Moisture		4.8		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
480-21915-2	**MR-1SS-DP-11-12-12.5**					
Mercury, Total		3.4		0.54	mg/Kg	7471A
Percent Moisture		28		0.10	%	Moisture
Percent Solids		72		0.10	%	Moisture
480-21915-3	**MR-1SS-DP-11-20-20.5**					
Mercury, Total		0.21		0.026	mg/Kg	7471A
Percent Moisture		28		0.10	%	Moisture
Percent Solids		72		0.10	%	Moisture
480-21915-4	**MR-1SS-DP-11-28-28.5**					
Mercury, Total		0.080		0.024	mg/Kg	7471A
Percent Moisture		20		0.10	%	Moisture
Percent Solids		80		0.10	%	Moisture
480-21915-5	**MR-1SS-DP-11-36-36.5**					
Mercury, Total		0.38		0.026	mg/Kg	7471A
Percent Moisture		25		0.10	%	Moisture
Percent Solids		75		0.10	%	Moisture
480-21915-6	**MR-1SS-DP-11-44-44.5**					
Mercury, Total		0.050		0.025	mg/Kg	7471A
Percent Moisture		21		0.10	%	Moisture
Percent Solids		79		0.10	%	Moisture
480-21915-7	**MR-1SS-DP-11-56-56.5**					
Percent Moisture		17		0.10	%	Moisture
Percent Solids		83		0.10	%	Moisture
480-21915-8	**MR-1SS-DP-11-64-64.5**					
Percent Moisture		27		0.10	%	Moisture
Percent Solids		73		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-21850-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-21915-9	**MR-1SS-DP-14-1.5-2**					
Mercury, Total		8.1		0.43	mg/Kg	7471A
Percent Moisture		5.1		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
480-21915-10	**MR-1SS-DP-14-8-8.5**					
Mercury, Total		0.15		0.026	mg/Kg	7471A
Percent Moisture		26		0.10	%	Moisture
Percent Solids		74		0.10	%	Moisture
480-21915-11	**MR-1SS-DP-14-16-16.5**					
Mercury, Total		0.73		0.025	mg/Kg	7471A
Percent Moisture		23		0.10	%	Moisture
Percent Solids		77		0.10	%	Moisture
480-21915-12	**MR-1SS-DP-14-24-24.5**					
Percent Moisture		24		0.10	%	Moisture
Percent Solids		76		0.10	%	Moisture
480-21915-13	**MR-1SS-DP-14-32-32.5**					
Mercury, Total		0.040		0.027	mg/Kg	7471A
Percent Moisture		24		0.10	%	Moisture
Percent Solids		76		0.10	%	Moisture
480-21915-14	**MR-1SS-DP-14-40-40.5**					
Mercury, Total		0.065		0.024	mg/Kg	7471A
Percent Moisture		24		0.10	%	Moisture
Percent Solids		76		0.10	%	Moisture
480-21915-15	**MR-1SS-DP-14-48-48.5**					
Percent Moisture		24		0.10	%	Moisture
Percent Solids		76		0.10	%	Moisture
480-21915-16	**MR-1SS-DP-14-56-56.5**					
Percent Moisture		20		0.10	%	Moisture
Percent Solids		80		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-21850-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-21915-17	**MR-1SS-DP-14-64-64.5**					
Percent Moisture		25		0.10	%	Moisture
Percent Solids		75		0.10	%	Moisture
480-21917-1	**MR-SB-1SS-DP-11-2-2.5**					
TCLP						
Mercury		0.00020		0.00020	mg/L	7470A

METHOD SUMMARY

Client: Brown and Caldwell

Job Number: 480-21850-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Mercury (CVAA)	TAL BUF	SW846 7470A	
TCLP Extraction	TAL BUF		SW846 1311
Preparation, Mercury	TAL BUF		SW846 7470A
Mercury (CVAA)	TAL BUF	SW846 7471A	
Preparation, Mercury	TAL BUF		SW846 7471A
Percent Moisture	TAL BUF	EPA Moisture	

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Brown and Caldwell

Job Number: 480-21850-1

Method	Analyst	Analyst ID
SW846 7470A	Kacalski, Jason	JRK
SW846 7471A	Kacalski, Jason	JRK
EPA Moisture	Robitaille, Zach L	ZLR

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-SB-1SS-DP-10-1.5-2**

Lab Sample ID: 480-21850-1

Client Matrix: Solid

Date Sampled: 06/26/2012 1400

Date Received: 06/27/2012 0900

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-70630	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-70561	Lab File ID:	H06292TC.PRN
Dilution:	1.0	Leach Batch:	480-70428	Initial Weight/Volume:	30 mL
Analysis Date:	06/29/2012 1454			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 0955				
Leach Date:	06/28/2012 1354				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Mercury		ND		0.00020

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-11-2-2.5**

Lab Sample ID: 480-21915-1

Client Matrix: Solid

% Moisture: 4.8

Date Sampled: 06/27/2012 0805

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	20			Initial Weight/Volume:	+0.6270 g
Analysis Date:	06/28/2012 1656			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		2.5		0.40

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-11-12-12.5**

Lab Sample ID: 480-21915-2

Client Matrix: Solid

% Moisture: 28.1

Date Sampled: 06/27/2012 0820

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	20			Initial Weight/Volume:	+0.6206 g
Analysis Date:	06/28/2012 1657			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		3.4		0.54

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-11-20-20.5**

Lab Sample ID: 480-21915-3

Client Matrix: Solid

% Moisture: 28.3

Date Sampled: 06/27/2012 0845

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6564 g
Analysis Date:	06/28/2012 1548			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.21		0.026

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-11-28-28.5**

Lab Sample ID: 480-21915-4

Client Matrix: Solid

% Moisture: 20.5

Date Sampled: 06/27/2012 0855

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6336 g
Analysis Date:	06/28/2012 1550			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.080		0.024

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-11-36-36.5**

Lab Sample ID: 480-21915-5

Client Matrix: Solid

% Moisture: 24.6

Date Sampled: 06/27/2012 0945

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6141 g
Analysis Date:	06/28/2012 1551			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.38		0.026

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-11-44-44.5**

Lab Sample ID: 480-21915-6

Client Matrix: Solid

% Moisture: 21.1

Date Sampled: 06/27/2012 1015

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6127 g
Analysis Date:	06/28/2012 1555			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.050		0.025

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-11-56-56.5**

Lab Sample ID: 480-21915-7

Client Matrix: Solid

% Moisture: 17.1

Date Sampled: 06/27/2012 1040

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6389 g
Analysis Date:	06/28/2012 1557			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.023

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-11-64-64.5**

Lab Sample ID: 480-21915-8

Client Matrix: Solid

% Moisture: 27.3

Date Sampled: 06/27/2012 1050

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6030 g
Analysis Date:	06/28/2012 1558			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.027

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-14-1.5-2**

Lab Sample ID: 480-21915-9

Client Matrix: Solid

% Moisture: 5.1

Date Sampled: 06/27/2012 1325

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	20			Initial Weight/Volume:	+0.5917 g
Analysis Date:	06/28/2012 1703			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		8.1		0.43

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-14-8-8.5**

Lab Sample ID: 480-21915-10

Client Matrix: Solid

% Moisture: 25.7

Date Sampled: 06/27/2012 1335

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6112 g
Analysis Date:	06/28/2012 1602			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.15		0.026

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-14-16-16.5**

Lab Sample ID: 480-21915-11

Client Matrix: Solid

% Moisture: 22.7

Date Sampled: 06/27/2012 1345

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6209 g
Analysis Date:	06/28/2012 1603			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.73		0.025

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-14-24-24.5**

Lab Sample ID: 480-21915-12

Client Matrix: Solid

% Moisture: 24.0

Date Sampled: 06/27/2012 1400

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6468 g
Analysis Date:	06/28/2012 1604			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.024

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-14-32-32.5**

Lab Sample ID: 480-21915-13

Client Matrix: Solid

% Moisture: 23.9

Date Sampled: 06/27/2012 1400

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5837 g
Analysis Date:	06/28/2012 1605			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.040		0.027

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-14-40-40.5**

Lab Sample ID: 480-21915-14

Client Matrix: Solid

% Moisture: 24.1

Date Sampled: 06/27/2012 1420

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6663 g
Analysis Date:	06/28/2012 1606			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.065		0.024

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-14-48-48.5**

Lab Sample ID: 480-21915-15

Client Matrix: Solid

% Moisture: 23.8

Date Sampled: 06/27/2012 1430

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6455 g
Analysis Date:	06/28/2012 1607			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.024

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-14-56-56.5**

Lab Sample ID: 480-21915-16

Client Matrix: Solid

% Moisture: 20.3

Date Sampled: 06/27/2012 1445

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6060 g
Analysis Date:	06/28/2012 1611			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.025

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-1SS-DP-14-64-64.5**

Lab Sample ID: 480-21915-17

Client Matrix: Solid

% Moisture: 24.6

Date Sampled: 06/27/2012 1615

Date Received: 06/28/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6129 g
Analysis Date:	06/28/2012 1612			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.026

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-SB-1SS-DP-11-2-2.5**

Lab Sample ID: 480-21917-1

Client Matrix: Solid

Date Sampled: 06/27/2012 0805

Date Received: 06/28/2012 0900

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-70630	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-70561	Lab File ID:	H06292TC.PRN
Dilution:	1.0	Leach Batch:	480-70428	Initial Weight/Volume:	30 mL
Analysis Date:	06/29/2012 1511			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 0955				
Leach Date:	06/28/2012 1354				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Mercury		0.00020		0.00020

Client: Brown and Caldwell

Job Number: 480-21850-1

Client Sample ID: **MR-SB-1SS-DP-14-8-8.5**

Lab Sample ID: 480-21917-2

Client Matrix: Solid

Date Sampled: 06/27/2012 1335

Date Received: 06/28/2012 0900

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-70630	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-70561	Lab File ID:	H06292TC.PRN
Dilution:	1.0	Leach Batch:	480-70428	Initial Weight/Volume:	30 mL
Analysis Date:	06/29/2012 1512			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 0955				
Leach Date:	06/28/2012 1354				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Mercury		ND		0.00020

General Chemistry

Client Sample ID: **MR-1SS-DP-11-2-2.5**

Lab Sample ID: 480-21915-1

Client Matrix: Solid

Date Sampled: 06/27/2012 0805

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	4.8		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	95		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-11-12-12.5**

Lab Sample ID: 480-21915-2

Client Matrix: Solid

Date Sampled: 06/27/2012 0820

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	28		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	72		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-11-20-20.5**

Lab Sample ID: 480-21915-3

Client Matrix: Solid

Date Sampled: 06/27/2012 0845

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	28		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	72		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-11-28-28.5**

Lab Sample ID: 480-21915-4

Client Matrix: Solid

Date Sampled: 06/27/2012 0855

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	20		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	80		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-11-36-36.5**

Lab Sample ID: 480-21915-5

Client Matrix: Solid

Date Sampled: 06/27/2012 0945

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	25		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	75		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-11-44-44.5**

Lab Sample ID: 480-21915-6

Client Matrix: Solid

Date Sampled: 06/27/2012 1015

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	21		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	79		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-11-56-56.5**

Lab Sample ID: 480-21915-7

Client Matrix: Solid

Date Sampled: 06/27/2012 1040

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	17		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	83		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-11-64-64.5**

Lab Sample ID: 480-21915-8

Client Matrix: Solid

Date Sampled: 06/27/2012 1050

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	27		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	73		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-14-1.5-2**

Lab Sample ID: 480-21915-9

Client Matrix: Solid

Date Sampled: 06/27/2012 1325

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	5.1		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	95		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-14-8-8.5**

Lab Sample ID: 480-21915-10

Client Matrix: Solid

Date Sampled: 06/27/2012 1335

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	26		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	74		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-14-16-16.5**

Lab Sample ID: 480-21915-11

Client Matrix: Solid

Date Sampled: 06/27/2012 1345

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	23		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	77		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-14-24-24.5**

Lab Sample ID: 480-21915-12

Client Matrix: Solid

Date Sampled: 06/27/2012 1400

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	24		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	76		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-14-32-32.5**

Lab Sample ID: 480-21915-13

Client Matrix: Solid

Date Sampled: 06/27/2012 1400

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	24		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	76		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-14-40-40.5**

Lab Sample ID: 480-21915-14

Client Matrix: Solid

Date Sampled: 06/27/2012 1420

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	24		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	76		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-14-48-48.5**

Lab Sample ID: 480-21915-15

Client Matrix: Solid

Date Sampled: 06/27/2012 1430

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	24		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	76		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-14-56-56.5**

Lab Sample ID: 480-21915-16

Client Matrix: Solid

Date Sampled: 06/27/2012 1445

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	20		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	80		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-1SS-DP-14-64-64.5**

Lab Sample ID: 480-21915-17

Client Matrix: Solid

Date Sampled: 06/27/2012 1615

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	25		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N
Percent Solids	75		%	0.10	1.0	Moisture
	Analysis Batch: 480-70405		Analysis Date: 06/28/2012 1158			DryWt Corrected: N

Client: Brown and Caldwell

Job Number: 480-21850-1

TCLP SPLPE Leachate Blank - Batch: 480-70561

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB 480-70428/1-B	Analysis Batch:	480-70630	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-70561	Lab File ID:	H06292TC.PRN
Dilution:	1.0	Leach Batch:	480-70428	Initial Weight/Volume:	30 mL
Analysis Date:	06/29/2012 1449	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 0955				
Leach Date:	06/28/2012 1354				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Method Blank - Batch: 480-70561

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-70561/2-A	Analysis Batch:	480-70630	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70561	Lab File ID:	H06292TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/29/2012 1451	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 0955				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Lab Control Sample - Batch: 480-70561

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-70561/3-A	Analysis Batch:	480-70630	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70561	Lab File ID:	H06292TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/29/2012 1453	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 0955				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00668	0.00642	96	80 - 120	

Client: Brown and Caldwell

Job Number: 480-21850-1

Method Blank - Batch: 480-70418

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 480-70418/1-A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6167 g
Analysis Date:	06/28/2012 1539	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.019

LCS-Certified Reference Material - Batch: 480-70418

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM 480-70418/2-A	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0527 g
Analysis Date:	06/28/2012 1541	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	3.77	3.30	87.6	71.6 - 128.4	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70418

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-21915-2	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	+0.6166 g
Analysis Date:	06/28/2012 1700			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				
Leach Date:	N/A				

MSD Lab Sample ID:	480-21915-2	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	+0.6559 g
Analysis Date:	06/28/2012 1701			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Total	170	171	75 - 125	1	20	4	4

Client: Brown and Caldwell

Job Number: 480-21850-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70418

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-21915-2	Units: mg/Kg	
Client Matrix:	Solid		
Dilution:	20		
Analysis Date:	06/28/2012 1700		
Prep Date:	06/28/2012 1430		
Leach Date:	N/A		

MSD Lab Sample ID:	480-21915-2
Client Matrix:	Solid
Dilution:	20
Analysis Date:	06/28/2012 1701
Prep Date:	06/28/2012 1430
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury, Total	3.4	0.451	0.424	4.20	4	4.16	4

Serial Dilution - Batch: 480-70418

Method: 7471A
Preparation: 7471A

Lab Sample ID:	480-21915-2	Analysis Batch:	480-70464	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70418	Lab File ID:	J06282S1.PRN
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	+0.6206 g
Analysis Date:	06/28/2012 1659	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 1430				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Total	3.4	3.47	NC	10	

DATA REPORTING QUALIFIERS

Client: Brown and Caldwell

Job Number: 480-21850-1

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: Brown and Caldwell

Job Number: 480-21850-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-70418					
LCSSRM 480-70418/2-A	LCS-Certified Reference Material	T	Solid	7471A	
MB 480-70418/1-A	Method Blank	T	Solid	7471A	
480-21915-1	MR-1SS-DP-11-2-2.5	T	Solid	7471A	
480-21915-2	MR-1SS-DP-11-12-12.5	T	Solid	7471A	
480-21915-2MS	Matrix Spike	T	Solid	7471A	
480-21915-2MSD	Matrix Spike Duplicate	T	Solid	7471A	
480-21915-3	MR-1SS-DP-11-20-20.5	T	Solid	7471A	
480-21915-4	MR-1SS-DP-11-28-28.5	T	Solid	7471A	
480-21915-5	MR-1SS-DP-11-36-36.5	T	Solid	7471A	
480-21915-6	MR-1SS-DP-11-44-44.5	T	Solid	7471A	
480-21915-7	MR-1SS-DP-11-56-56.5	T	Solid	7471A	
480-21915-8	MR-1SS-DP-11-64-64.5	T	Solid	7471A	
480-21915-9	MR-1SS-DP-14-1.5-2	T	Solid	7471A	
480-21915-10	MR-1SS-DP-14-8-8.5	T	Solid	7471A	
480-21915-11	MR-1SS-DP-14-16-16.5	T	Solid	7471A	
480-21915-12	MR-1SS-DP-14-24-24.5	T	Solid	7471A	
480-21915-13	MR-1SS-DP-14-32-32.5	T	Solid	7471A	
480-21915-14	MR-1SS-DP-14-40-40.5	T	Solid	7471A	
480-21915-15	MR-1SS-DP-14-48-48.5	T	Solid	7471A	
480-21915-16	MR-1SS-DP-14-56-56.5	T	Solid	7471A	
480-21915-17	MR-1SS-DP-14-64-64.5	T	Solid	7471A	
Prep Batch: 480-70428					
LB 480-70428/1-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
480-21850-1	MR-SB-1SS-DP-10-1.5-2	P	Solid	1311	
480-21917-1	MR-SB-1SS-DP-11-2-2.5	P	Solid	1311	
480-21917-2	MR-SB-1SS-DP-14-8-8.5	P	Solid	1311	

Client: Brown and Caldwell

Job Number: 480-21850-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-70464					
LCSSRM 480-70418/2-A	LCS-Certified Reference Material	T	Solid	7471A	480-70418
MB 480-70418/1-A	Method Blank	T	Solid	7471A	480-70418
480-21915-1	MR-1SS-DP-11-2-2.5	T	Solid	7471A	480-70418
480-21915-2	MR-1SS-DP-11-12-12.5	T	Solid	7471A	480-70418
480-21915-2MS	Matrix Spike	T	Solid	7471A	480-70418
480-21915-2MSD	Matrix Spike Duplicate	T	Solid	7471A	480-70418
480-21915-3	MR-1SS-DP-11-20-20.5	T	Solid	7471A	480-70418
480-21915-4	MR-1SS-DP-11-28-28.5	T	Solid	7471A	480-70418
480-21915-5	MR-1SS-DP-11-36-36.5	T	Solid	7471A	480-70418
480-21915-6	MR-1SS-DP-11-44-44.5	T	Solid	7471A	480-70418
480-21915-7	MR-1SS-DP-11-56-56.5	T	Solid	7471A	480-70418
480-21915-8	MR-1SS-DP-11-64-64.5	T	Solid	7471A	480-70418
480-21915-9	MR-1SS-DP-14-1.5-2	T	Solid	7471A	480-70418
480-21915-10	MR-1SS-DP-14-8-8.5	T	Solid	7471A	480-70418
480-21915-11	MR-1SS-DP-14-16-16.5	T	Solid	7471A	480-70418
480-21915-12	MR-1SS-DP-14-24-24.5	T	Solid	7471A	480-70418
480-21915-13	MR-1SS-DP-14-32-32.5	T	Solid	7471A	480-70418
480-21915-14	MR-1SS-DP-14-40-40.5	T	Solid	7471A	480-70418
480-21915-15	MR-1SS-DP-14-48-48.5	T	Solid	7471A	480-70418
480-21915-16	MR-1SS-DP-14-56-56.5	T	Solid	7471A	480-70418
480-21915-17	MR-1SS-DP-14-64-64.5	T	Solid	7471A	480-70418
Prep Batch: 480-70561					
LCS 480-70561/3-A	Lab Control Sample	T	Water	7470A	
MB 480-70561/2-A	Method Blank	T	Water	7470A	
LB 480-70428/1-B	TCLP SPLPE Leachate Blank	P	Solid	7470A	480-70428
480-21850-1	MR-SB-1SS-DP-10-1.5-2	P	Solid	7470A	480-70428
480-21917-1	MR-SB-1SS-DP-11-2-2.5	P	Solid	7470A	480-70428
480-21917-2	MR-SB-1SS-DP-14-8-8.5	P	Solid	7470A	480-70428
Analysis Batch:480-70630					
LB 480-70428/1-B	TCLP SPLPE Leachate Blank	P	Solid	7470A	480-70561
LCS 480-70561/3-A	Lab Control Sample	T	Water	7470A	480-70561
MB 480-70561/2-A	Method Blank	T	Water	7470A	480-70561
480-21850-1	MR-SB-1SS-DP-10-1.5-2	P	Solid	7470A	480-70561
480-21917-1	MR-SB-1SS-DP-11-2-2.5	P	Solid	7470A	480-70561
480-21917-2	MR-SB-1SS-DP-14-8-8.5	P	Solid	7470A	480-70561

Report Basis

P = TCLP

T = Total

Client: Brown and Caldwell

Job Number: 480-21850-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-70405					
480-21915-1	MR-1SS-DP-11-2-2.5	T	Solid	Moisture	
480-21915-2	MR-1SS-DP-11-12-12.5	T	Solid	Moisture	
480-21915-3	MR-1SS-DP-11-20-20.5	T	Solid	Moisture	
480-21915-4	MR-1SS-DP-11-28-28.5	T	Solid	Moisture	
480-21915-5	MR-1SS-DP-11-36-36.5	T	Solid	Moisture	
480-21915-6	MR-1SS-DP-11-44-44.5	T	Solid	Moisture	
480-21915-7	MR-1SS-DP-11-56-56.5	T	Solid	Moisture	
480-21915-8	MR-1SS-DP-11-64-64.5	T	Solid	Moisture	
480-21915-9	MR-1SS-DP-14-1.5-2	T	Solid	Moisture	
480-21915-10	MR-1SS-DP-14-8-8.5	T	Solid	Moisture	
480-21915-11	MR-1SS-DP-14-16-16.5	T	Solid	Moisture	
480-21915-12	MR-1SS-DP-14-24-24.5	T	Solid	Moisture	
480-21915-13	MR-1SS-DP-14-32-32.5	T	Solid	Moisture	
480-21915-14	MR-1SS-DP-14-40-40.5	T	Solid	Moisture	
480-21915-15	MR-1SS-DP-14-48-48.5	T	Solid	Moisture	
480-21915-16	MR-1SS-DP-14-56-56.5	T	Solid	Moisture	
480-21915-17	MR-1SS-DP-14-64-64.5	T	Solid	Moisture	

Report Basis

T = Total

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-21850-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Client: Brown and Caldwell

Job Number: 480-21850-1

Laboratory Chronicle

Lab ID: 480-21850-1 **Client ID:** MR-SB-1SS-DP-10-1.5-2

Sample Date/Time: 06/26/2012 14:00 Received Date/Time: 06/27/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21850-A-1-B		480-70630	480-70561	06/29/2012 09:55	1	TAL BUF	JRK
A:7470A	480-21850-A-1-B		480-70630	480-70561	06/29/2012 14:54	1	TAL BUF	JRK

Lab ID: 480-21915-1 **Client ID:** MR-1SS-DP-11-2-2.5

Sample Date/Time: 06/27/2012 08:05 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-1-A ^20		480-70464	480-70418	06/28/2012 14:30	20	TAL BUF	JRK
A:7471A	480-21915-A-1-A ^20		480-70464	480-70418	06/28/2012 16:56	20	TAL BUF	JRK
A:Moisture	480-21915-A-1		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: 480-21915-2 **Client ID:** MR-1SS-DP-11-12-12.5

Sample Date/Time: 06/27/2012 08:20 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-2-A ^20		480-70464	480-70418	06/28/2012 14:30	20	TAL BUF	JRK
A:7471A	480-21915-A-2-A ^20		480-70464	480-70418	06/28/2012 16:57	20	TAL BUF	JRK
A:Moisture	480-21915-A-2		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: 480-21915-2 MS **Client ID:** MR-1SS-DP-11-12-12.5

Sample Date/Time: 06/27/2012 08:20 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-2-B MS ^20		480-70464	480-70418	06/28/2012 14:30	20	TAL BUF	JRK
A:7471A	480-21915-A-2-B MS ^20		480-70464	480-70418	06/28/2012 17:00	20	TAL BUF	JRK

Lab ID: 480-21915-2 MSD **Client ID:** MR-1SS-DP-11-12-12.5

Sample Date/Time: 06/27/2012 08:20 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-2-C MSD ^20		480-70464	480-70418	06/28/2012 14:30	20	TAL BUF	JRK
A:7471A	480-21915-A-2-C MSD ^20		480-70464	480-70418	06/28/2012 17:01	20	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-21850-1

Laboratory Chronicle

Lab ID: **480-21915-2 SD** **Client ID:** **MR-1SS-DP-11-12-12.5**

Sample Date/Time: 06/27/2012 08:20 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-2-A SD ^100		480-70464	480-70418	06/28/2012 14:30	100	TAL BUF	JRK
A:7471A	480-21915-A-2-A SD ^100		480-70464	480-70418	06/28/2012 16:59	100	TAL BUF	JRK

Lab ID: **480-21915-3** **Client ID:** **MR-1SS-DP-11-20-20.5**

Sample Date/Time: 06/27/2012 08:45 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-3-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-3-A		480-70464	480-70418	06/28/2012 15:48	1	TAL BUF	JRK
A:Moisture	480-21915-A-3		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: **480-21915-4** **Client ID:** **MR-1SS-DP-11-28-28.5**

Sample Date/Time: 06/27/2012 08:55 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-4-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-4-A		480-70464	480-70418	06/28/2012 15:50	1	TAL BUF	JRK
A:Moisture	480-21915-A-4		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: **480-21915-5** **Client ID:** **MR-1SS-DP-11-36-36.5**

Sample Date/Time: 06/27/2012 09:45 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-5-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-5-A		480-70464	480-70418	06/28/2012 15:51	1	TAL BUF	JRK
A:Moisture	480-21915-A-5		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: **480-21915-6** **Client ID:** **MR-1SS-DP-11-44-44.5**

Sample Date/Time: 06/27/2012 10:15 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-6-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-6-A		480-70464	480-70418	06/28/2012 15:55	1	TAL BUF	JRK
A:Moisture	480-21915-A-6		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Client: Brown and Caldwell

Job Number: 480-21850-1

Laboratory Chronicle

Lab ID: 480-21915-7 **Client ID:** MR-1SS-DP-11-56-56.5

Sample Date/Time: 06/27/2012 10:40 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-7-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-7-A		480-70464	480-70418	06/28/2012 15:57	1	TAL BUF	JRK
A:Moisture	480-21915-A-7		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: 480-21915-8 **Client ID:** MR-1SS-DP-11-64-64.5

Sample Date/Time: 06/27/2012 10:50 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-8-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-8-A		480-70464	480-70418	06/28/2012 15:58	1	TAL BUF	JRK
A:Moisture	480-21915-A-8		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: 480-21915-9 **Client ID:** MR-1SS-DP-14-1.5-2

Sample Date/Time: 06/27/2012 13:25 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-9-A ^20		480-70464	480-70418	06/28/2012 14:30	20	TAL BUF	JRK
A:7471A	480-21915-A-9-A ^20		480-70464	480-70418	06/28/2012 17:03	20	TAL BUF	JRK
A:Moisture	480-21915-A-9		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: 480-21915-10 **Client ID:** MR-1SS-DP-14-8-8.5

Sample Date/Time: 06/27/2012 13:35 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-10-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-10-A		480-70464	480-70418	06/28/2012 16:02	1	TAL BUF	JRK
A:Moisture	480-21915-A-10		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: 480-21915-11 **Client ID:** MR-1SS-DP-14-16-16.5

Sample Date/Time: 06/27/2012 13:45 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-11-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-11-A		480-70464	480-70418	06/28/2012 16:03	1	TAL BUF	JRK
A:Moisture	480-21915-A-11		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Client: Brown and Caldwell

Job Number: 480-21850-1

Laboratory Chronicle

Lab ID: **480-21915-12** **Client ID:** **MR-1SS-DP-14-24-24.5**

Sample Date/Time: 06/27/2012 14:00 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-12-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-12-A		480-70464	480-70418	06/28/2012 16:04	1	TAL BUF	JRK
A:Moisture	480-21915-A-12		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: **480-21915-13** **Client ID:** **MR-1SS-DP-14-32-32.5**

Sample Date/Time: 06/27/2012 14:00 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-13-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-13-A		480-70464	480-70418	06/28/2012 16:05	1	TAL BUF	JRK
A:Moisture	480-21915-A-13		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: **480-21915-14** **Client ID:** **MR-1SS-DP-14-40-40.5**

Sample Date/Time: 06/27/2012 14:20 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-14-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-14-A		480-70464	480-70418	06/28/2012 16:06	1	TAL BUF	JRK
A:Moisture	480-21915-A-14		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: **480-21915-15** **Client ID:** **MR-1SS-DP-14-48-48.5**

Sample Date/Time: 06/27/2012 14:30 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-15-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-15-A		480-70464	480-70418	06/28/2012 16:07	1	TAL BUF	JRK
A:Moisture	480-21915-A-15		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: **480-21915-16** **Client ID:** **MR-1SS-DP-14-56-56.5**

Sample Date/Time: 06/27/2012 14:45 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-16-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-16-A		480-70464	480-70418	06/28/2012 16:11	1	TAL BUF	JRK
A:Moisture	480-21915-A-16		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Client: Brown and Caldwell

Job Number: 480-21850-1

Laboratory Chronicle

Lab ID: **480-21915-17** **Client ID:** **MR-1SS-DP-14-64-64.5**

Sample Date/Time: 06/27/2012 16:15 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21915-A-17-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21915-A-17-A		480-70464	480-70418	06/28/2012 16:12	1	TAL BUF	JRK
A:Moisture	480-21915-A-17		480-70405		06/28/2012 11:58	1	TAL BUF	ZLR

Lab ID: **480-21917-1** **Client ID:** **MR-SB-1SS-DP-11-2-2.5**

Sample Date/Time: 06/27/2012 08:05 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21917-A-1-B		480-70630	480-70561	06/29/2012 09:55	1	TAL BUF	JRK
A:7470A	480-21917-A-1-B		480-70630	480-70561	06/29/2012 15:11	1	TAL BUF	JRK

Lab ID: **480-21917-2** **Client ID:** **MR-SB-1SS-DP-14-8-8.5**

Sample Date/Time: 06/27/2012 13:35 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21917-A-2-B		480-70630	480-70561	06/29/2012 09:55	1	TAL BUF	JRK
A:7470A	480-21917-A-2-B		480-70630	480-70561	06/29/2012 15:12	1	TAL BUF	JRK

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	MB 480-70561/2-A		480-70630	480-70561	06/29/2012 09:55	1	TAL BUF	JRK
A:7470A	MB 480-70561/2-A		480-70630	480-70561	06/29/2012 14:51	1	TAL BUF	JRK
P:7471A	MB 480-70418/1-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	MB 480-70418/1-A		480-70464	480-70418	06/28/2012 15:39	1	TAL BUF	JRK

Lab ID: **LB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LB 480-70428/1-B		480-70630	480-70561	06/29/2012 09:55	1	TAL BUF	JRK
A:7470A	LB 480-70428/1-B		480-70630	480-70561	06/29/2012 14:49	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-21850-1

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LCS 480-70561/3-A		480-70630	480-70561	06/29/2012 09:55	1	TAL BUF	JRK
A:7470A	LCS 480-70561/3-A		480-70630	480-70561	06/29/2012 14:53	1	TAL BUF	JRK

Lab ID: **LCSSRM** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	LCSSRM 480-70418/2-A		480-70464	480-70418	06/28/2012 14:30	1	TAL BUF	JRK
A:7471A	LCSSRM 480-70418/2-A		480-70464	480-70418	06/28/2012 15:41	1	TAL BUF	JRK

Lab References:

TAL BUF = TestAmerica Buffalo

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21850-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-SB-1SS-DP-10-1.5-2	480-21850-1
MR-1SS-DP-11-2-2.5	480-21915-1
MR-1SS-DP-11-12-12.5	480-21915-2
MR-1SS-DP-11-20-20.5	480-21915-3
MR-1SS-DP-11-28-28.5	480-21915-4
MR-1SS-DP-11-36-36.5	480-21915-5
MR-1SS-DP-11-44-44.5	480-21915-6
MR-1SS-DP-11-56-56.5	480-21915-7
MR-1SS-DP-11-64-64.5	480-21915-8
MR-1SS-DP-14-1.5-2	480-21915-9
MR-1SS-DP-14-8-8.5	480-21915-10
MR-1SS-DP-14-16-16.5	480-21915-11
MR-1SS-DP-14-24-24.5	480-21915-12
MR-1SS-DP-14-32-32.5	480-21915-13
MR-1SS-DP-14-40-40.5	480-21915-14
MR-1SS-DP-14-48-48.5	480-21915-15
MR-1SS-DP-14-56-56.5	480-21915-16
MR-1SS-DP-14-64-64.5	480-21915-17
MR-SB-1SS-DP-11-2-2.5	480-21917-1
MR-SB-1SS-DP-14-8-8.5	480-21917-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MR-SB-1SS-DP-10-1.5-2

Lab Sample ID: 480-21850-1

Lab Name: TestAmerica Buffalo

Job No.: 480-21850-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/26/2012 14:00

Reporting Basis: WET

Date Received: 06/27/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-11-2-2.5

Lab Sample ID: 480-21915-1

Lab Name: TestAmerica Buffalo

Job No.: 480-21850-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/27/2012 08:05

Reporting Basis: DRY

Date Received: 06/28/2012 09:00

% Solids: 95.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	2.5	0.40	0.16	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-11-12-12.5

Lab Sample ID: 480-21915-2

Lab Name: TestAmerica Buffalo

Job No.: 480-21850-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/27/2012 08:20

Reporting Basis: DRY

Date Received: 06/28/2012 09:00

% Solids: 71.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	3.4	0.54	0.22	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-11-20-20.5

Lab Sample ID: 480-21915-3

Lab Name: TestAmerica Buffalo

Job No.: 480-21850-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/27/2012 08:45

Reporting Basis: DRY

Date Received: 06/28/2012 09:00

% Solids: 71.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.21	0.026	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-11-28-28.5
Lab Sample ID: 480-21915-4
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 08:55
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 79.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.080	0.024	0.0096	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-11-36-36.5
Lab Sample ID: 480-21915-5
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 09:45
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 75.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.38	0.026	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-11-44-44.5
Lab Sample ID: 480-21915-6
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 10:15
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 78.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.050	0.025	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-11-56-56.5
Lab Sample ID: 480-21915-7
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 10:40
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 82.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.023	0.0092	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-11-64-64.5
Lab Sample ID: 480-21915-8
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 10:50
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 72.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.027	0.011	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-14-1.5-2

Lab Sample ID: 480-21915-9

Lab Name: TestAmerica Buffalo

Job No.: 480-21850-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/27/2012 13:25

Reporting Basis: DRY

Date Received: 06/28/2012 09:00

% Solids: 94.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	8.1	0.43	0.17	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-14-8-8.5
Lab Sample ID: 480-21915-10
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 13:35
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 74.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.15	0.026	0.011	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-14-16-16.5
Lab Sample ID: 480-21915-11
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 13:45
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 77.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.73	0.025	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-14-24-24.5
Lab Sample ID: 480-21915-12
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 14:00
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 76.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.024	0.0099	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-14-32-32.5
Lab Sample ID: 480-21915-13
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 14:00
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 76.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.040	0.027	0.011	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-14-40-40.5
Lab Sample ID: 480-21915-14
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 14:20
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 75.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.065	0.024	0.0096	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-14-48-48.5
Lab Sample ID: 480-21915-15
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 14:30
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 76.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.024	0.0099	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-14-56-56.5
Lab Sample ID: 480-21915-16
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 14:45
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 79.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.025	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-1SS-DP-14-64-64.5
Lab Sample ID: 480-21915-17
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 16:15
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 75.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.026	0.011	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MR-SB-1SS-DP-11-2-2.5
Lab Sample ID: 480-21917-1
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 08:05
Reporting Basis: WET
Date Received: 06/28/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00020	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MR-SB-1SS-DP-14-8-8.5
Lab Sample ID: 480-21917-2
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 13:35
Reporting Basis: WET
Date Received: 06/28/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

ICV Source: MEH_HG2_WKG_00125 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00125

Analyte	ICV 480-70630/1 06/29/2012 14:40				CCV 480-70630/4 06/29/2012 14:46				CCV 480-70630/16 06/29/2012 15:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00305		0.00300	102	0.00203		0.00200	102	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

ICV Source: MEH_HG2_WKG_00125 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00125

Analyte	CCV 480-70630/21 06/29/2012 15:14											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00203		0.00200	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

ICV Source: MEH_HG2_WKG_00124 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00124

Analyte	ICV 480-70464/1 06/28/2012 15:33				CCV 480-70464/4 06/28/2012 15:37				CCV 480-70464/16 06/28/2012 15:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00279		0.00300	93	0.00188		0.00200	94	0.00188		0.00200	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

ICV Source: MEH_HG2_WKG_00124 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00124

Analyte	CCV 480-70464/28 06/28/2012 16:08				CCV 480-70464/40 06/28/2012 16:23				CCV 480-70464/61 06/28/2012 16:51			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00184		0.00200	92	0.00186		0.00200	93	0.00180		0.00200	90

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

ICV Source: MEH_HG2_WKG_00124 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00124

Analyte	CCV 480-70464/69 06/28/2012 17:04											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00172		0.00200	86								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN2

Lab Sample ID: CRA 480-70630/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00125

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.000200	ND		83	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Method: 7471A Instrument ID: LEEMAN3

Lab Sample ID: CRA 480-70464/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00124

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		94	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-70630/2 06/29/2012 14:42		CCB 480-70630/5 06/29/2012 14:47		CCB 480-70630/17 06/29/2012 15:08		CCB 480-70630/22 06/29/2012 15:16	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-70464/2 06/28/2012 15:34		CCB 480-70464/5 06/28/2012 15:38		CCB 480-70464/17 06/28/2012 15:53		CCB 480-70464/29 06/28/2012 16:10	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-70464/41 06/28/2012 16:24		CCB 480-70464/62 06/28/2012 16:52		CCB 480-70464/70 06/28/2012 17:06			
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-70561/2-A

Instrument Code: LEEMAN2 Batch No.: 70630

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB 480-70428/1-B

Instrument Code: LEEMAN2 Batch No.: 70630

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-70418/1-A

Instrument Code: LEEMAN3 Batch No.: 70464

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7471A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MR-1SS-DP-11-12-12.5 MS
Lab ID: 480-21915-2 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 71.9

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Total	4.20		3.4		0.451	170	75-125	4	7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MR-1SS-DP-11-12-12.5 MSD
Lab ID: 480-21915-2 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-21850-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 71.9

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Total	4.16		0.424	171	75-125	1	20	4	7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-70561/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

Sample Matrix: Water LCS Source: MEH_HG_TCLP_W_00020

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00668	0.00642		96	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-70418/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

Sample Matrix: Solid LCS Source: MEH_SRM_D071_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	3.77	3.30		87.6	71.6	128.4		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-21915-2

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-21850-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Total	3.4		3.47		NC		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Buffalo Job Number: 480-21850-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.00012

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Buffalo Job Number: 480-21850-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

FORM IX - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21850-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN3

Method: 7471A MDL Date: 01/29/2010 00:00

Prep Method: 7471A

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury, Total	253.7	0.02	0.0081

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21850-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN3

Method: 7471A XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-21850-1

SDG No.:

Instrument ID: LEEMAN2 Date: 03/20/2012 10:04

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7470A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-21850-1

SDG No.:

Instrument ID: LEEMAN3 Date: 03/20/2012 10:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Total	10	10	7471A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-70418/1-A	06/28/2012 14:30	70418	+0.6167		50
LCSSRM 480-70418/2-A	06/28/2012 14:30	70418	+0.0527		50
480-21915-1	06/28/2012 14:30	70418	+0.6270		50
480-21915-2	06/28/2012 14:30	70418	+0.6206		50
480-21915-2 MS	06/28/2012 14:30	70418	+0.6166		50
480-21915-2 MSD	06/28/2012 14:30	70418	+0.6559		50
480-21915-3	06/28/2012 14:30	70418	+0.6564		50
480-21915-4	06/28/2012 14:30	70418	+0.6336		50
480-21915-5	06/28/2012 14:30	70418	+0.6141		50
480-21915-6	06/28/2012 14:30	70418	+0.6127		50
480-21915-7	06/28/2012 14:30	70418	+0.6389		50
480-21915-8	06/28/2012 14:30	70418	+0.6030		50
480-21915-9	06/28/2012 14:30	70418	+0.5917		50
480-21915-10	06/28/2012 14:30	70418	+0.6112		50
480-21915-11	06/28/2012 14:30	70418	+0.6209		50
480-21915-12	06/28/2012 14:30	70418	+0.6468		50
480-21915-13	06/28/2012 14:30	70418	+0.5837		50
480-21915-14	06/28/2012 14:30	70418	+0.6663		50
480-21915-15	06/28/2012 14:30	70418	+0.6455		50
480-21915-16	06/28/2012 14:30	70418	+0.6060		50
480-21915-17	06/28/2012 14:30	70418	+0.6129		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB 480-70428/1-B	06/29/2012 09:55	70561		30	50
MB 480-70561/2-A	06/29/2012 09:55	70561		30	50
LCS 480-70561/3-A	06/29/2012 09:55	70561		30	50
480-21850-1	06/29/2012 09:55	70561		30	50
480-21917-1	06/29/2012 09:55	70561		30	50
480-21917-2	06/29/2012 09:55	70561		30	50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 06/29/2012 14:40 End Date: 06/29/2012 15:16

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-70630/1	1		14:40	X																			
ICB 480-70630/2	1		14:42	X																			
CRA 480-70630/3	1		14:44	X																			
CCV 480-70630/4	1		14:46	X																			
CCB 480-70630/5	1		14:47	X																			
LB 480-70428/1-B	1	P	14:49	X																			
MB 480-70561/2-A	1	T	14:51	X																			
LCS 480-70561/3-A	1	T	14:53	X																			
480-21850-1	1	P	14:54	X																			
ZZZZZZ			14:56																				
ZZZZZZ			14:58																				
ZZZZZZ			14:59																				
ZZZZZZ			15:01																				
ZZZZZZ			15:02																				
ZZZZZZ			15:04																				
CCV 480-70630/16	1		15:06	X																			
CCB 480-70630/17	1		15:08	X																			
ZZZZZZ			15:09																				
480-21917-1	1	P	15:11	X																			
480-21917-2	1	P	15:12	X																			
CCV 480-70630/21	1		15:14	X																			
CCB 480-70630/22	1		15:16	X																			

Prep Types

P = TCLP

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 06/28/2012 15:33 End Date: 06/28/2012 17:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-70464/1	1		15:33	X																			
ICB 480-70464/2	1		15:34	X																			
CRA 480-70464/3	1		15:35	X																			
CCV 480-70464/4	1		15:37	X																			
CCB 480-70464/5	1		15:38	X																			
MB 480-70418/1-A	1	T	15:39	X																			
LCSSRM 480-70418/2-A	1	T	15:41	X																			
ZZZZZZ			15:42																				
ZZZZZZ			15:43																				
ZZZZZZ			15:45																				
ZZZZZZ			15:46																				
ZZZZZZ			15:47																				
480-21915-3	1	T	15:48	X																			
480-21915-4	1	T	15:50	X																			
480-21915-5	1	T	15:51	X																			
CCV 480-70464/16	1		15:52	X																			
CCB 480-70464/17	1		15:53	X																			
480-21915-6	1	T	15:55	X																			
480-21915-7	1	T	15:57	X																			
480-21915-8	1	T	15:58	X																			
ZZZZZZ			16:00																				
480-21915-10	1	T	16:02	X																			
480-21915-11	1	T	16:03	X																			
480-21915-12	1	T	16:04	X																			
480-21915-13	1	T	16:05	X																			
480-21915-14	1	T	16:06	X																			
480-21915-15	1	T	16:07	X																			
CCV 480-70464/28	1		16:08	X																			
CCB 480-70464/29	1		16:10	X																			
480-21915-16	1	T	16:11	X																			
480-21915-17	1	T	16:12	X																			
ZZZZZZ			16:13																				
ZZZZZZ			16:14																				
ZZZZZZ			16:15																				
ZZZZZZ			16:17																				
ZZZZZZ			16:18																				
ZZZZZZ			16:19																				
ZZZZZZ			16:20																				
ZZZZZZ			16:21																				
CCV 480-70464/40	1		16:23	X																			
CCB 480-70464/41	1		16:24	X																			
ZZZZZZ			16:25																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 06/28/2012 15:33 End Date: 06/28/2012 17:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:27																				
ZZZZZZ			16:28																				
ZZZZZZ			16:29																				
ZZZZZZ			16:30																				
ZZZZZZ			16:32																				
ZZZZZZ			16:34																				
ZZZZZZ			16:36																				
ZZZZZZ			16:37																				
ZZZZZZ			16:38																				
CCV 480-70464/52			16:39																				
CCB 480-70464/53			16:40																				
ZZZZZZ			16:42																				
ZZZZZZ			16:43																				
ZZZZZZ			16:44																				
ZZZZZZ			16:45																				
ZZZZZZ			16:47																				
ZZZZZZ			16:48																				
ZZZZZZ			16:50																				
CCV 480-70464/61	1		16:51	X																			
CCB 480-70464/62	1		16:52	X																			
480-21915-1	20	T	16:56	X																			
480-21915-2	20	T	16:57	X																			
480-21915-2 SD	100	T	16:59	X																			
480-21915-2 MS	20	T	17:00	X																			
480-21915-2 MSD	20	T	17:01	X																			
480-21915-9	20	T	17:03	X																			
CCV 480-70464/69	1		17:04	X																			
CCB 480-70464/70	1		17:06	X																			

Prep Types
T = Total/NA

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧

Protocol hgppb

Dataset/Proto H06292TC/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.70043e-5

C -5.43731e-2

rho .999960

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs. 589538

Accepted

New

Include S7 Rep 1 2 3 4 5

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.030	-.030	1405	305	1756	1251	1208
02	.20000	.173	-.027	13359	0.74%	13245	13428	13402
03	1.0000	1.00	.004	62242	0.08%	62301	62209	62216
04	2.0000	2.04	.042	123261	0.27%	123644	123014	123126
05	5.0000	5.04	.042	299694	0.65%	301439	300073	297573
06	10.000	9.97	-.030	589538	0.37%	592077	588102	588438

Ready CAP NUM

L2

6/29/12

70556

Cal: H06292C1

Run: H06292TC

Batches: 70561

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

70556

*** Check Standard: 2 Ck2ICV Seq: 1 14:40:40 29 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	3.05	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 14:42:46 29 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.049	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 14:44:32 29 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		82.5	.165	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 14:46:10 29 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 14:47:46 29 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.045	.200	ppb	.000

*** Sample ID: Seq: 6 14:49:27 29 Jun 12 HG
lb 480-70428/1-b
Hg -.037 ppb .000 -.037

*** Sample ID: Seq: 7 14:51:02 29 Jun 12 HG
mb 480-70561/2-a
Hg -.042 ppb .000 -.042

*** Sample ID: Seq: 8 14:53:03 29 Jun 12 HG
lcs 480-70561/3-a
Hg 3.85 ppb .000 3.85

*** Sample ID: Seq: 9 14:54:40 29 Jun 12 HG
480-21850-a-1-b
Hg .007 ppb .000 .007

*** Sample ID: Seq: 10 14:56:28 29 Jun 12 HG
480-21884-e-1-c
Hg -.037 ppb .000 -.037

*** Sample ID: Seq: 11 14:58:07 29 Jun 12 HG
480-21884-e-1-c SD@5
Hg -.036 ppb .000 -.036

*** Sample ID: Seq: 12 14:59:43 29 Jun 12 HG
480-21884-e-1-d ms
Hg 4.12 ppb .000 4.12

*** Sample ID: Seq: 13 15:01:18 29 Jun 12 HG
480-21884-e-1-e msd
Hg 4.03 ppb .000 4.03

*** Sample ID: Seq: 14 15:02:55 29 Jun 12 HG
480-21889-a-9-b
Hg -.059 ppb .000 -.059

*** Sample ID: Seq: 15 15:04:31 29 Jun 12 HG
480-21890-c-3-b
Hg -.036 ppb .000 -.036

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 15:06:17 29 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 15:08:07 29 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.040	.200	ppb	.000

*** Sample ID: Seq: 18 15:09:43 29 Jun 12 HG

480-21908-a-1-b

Hg	-.043	ppb	.000	-.043

*** Sample ID: Seq: 19 15:11:21 29 Jun 12 HG

480-21917-a-1-b

Hg	.121	ppb	.000	.121

*** Sample ID: Seq: 20 15:12:57 29 Jun 12 HG

480-21917-a-2-b

Hg	-.042	ppb	.000	-.042

*** Check Standard: 3 Ck3CCV Seq: 21 15:14:32 29 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 22 15:16:10 29 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.044	.200	ppb	.000

L3

6/28/12

Working Database 1.1

File Utility Help

RN RN

Protocol HgSoil

Dataset/Proto J06282S1/HgSoil

Protocol | Line Info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.46412e-5

C -1.14343e-2

rho 999842

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs.
680163

Accepted

New

Include S4 Rep 1☑ 2☑ 3☑ 4☐ 5☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.002	-.002	626	422	139	850	888
02	.20000	.209	.009	15083	5.59%	14697	16051	14502
03	1.0000	.975	-.025	67373	3.25%	68738	68535	64844
04	2.0000	1.94	-.058	133398	1.12%	133682	134720	131784
05	5.0000	5.13	.129	351113	1.57%	355860	352391	345088
06	10.000	9.95	-.053	680164	1.13%	684169	671327	684996

Ready

CAP NUM

70392

Cal: J06282CS

Run: J06282S1

Batches: 70418
70417

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

70392

*** Check Standard: 2 Ck2ICV Seq: 1 15:33:10 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.0	2.79	3.00	ppb	.000

*** Check Standard: 1 Ck1ICB Seq: 2 15:34:30 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.038	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 15:35:36 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.1	.188	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 15:37:04 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.0	1.88	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 15:38:22 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.018	.200	ppb	.000

*** Sample ID: Seq: 6 15:39:27 28 Jun 12 HG
mb 480-70418/1-a

Hg	.005	ppb	.000	.005

*** Sample ID: Seq: 7 15:41:03 28 Jun 12 HG
lcssrm 480-70418/2-a

Hg	3.48	ppb	.000	3.48

*** Sample ID: Seq: 8 15:42:10 28 Jun 12 HG
480-21915-a-1-a

RR 1:20

Hg	25.4	H ppb	.000	25.4

*** Sample ID: Seq: 9 15:43:26 28 Jun 12 HG
480-21915-a-2-a

Hg	26.0	H ppb	.000	26.0

*** Sample ID: Seq: 10 15:45:11 28 Jun 12 HG
480-21915-a-2-a SD@5

1:100

Hg	5.84	ppb	.000	5.84

~~*** Sample ID: Seq: 11 15:46:18 28 Jun 12 HG~~
480-21915-a-2-b ms

RR 1:20

Hg	30.1	H ppb	.000	30.1

*** Sample ID: Seq: 12 15:47:35 28 Jun 12 HG
480-21915-a-2-c msd

Hg	32.4	H ppb	.000	32.4

*** Sample ID: Seq: 13 15:48:45 28 Jun 12 HG
480-21915-a-3-a

Hg	1.96	ppb	.000	1.96

*** Sample ID: Seq: 14 15:50:02 28 Jun 12 HG
480-21915-a-4-a

Hg	.805	ppb	.000	.805

*** Sample ID: Seq: 15 15:51:31 28 Jun 12 HG
480-21915-a-5-a

Hg	3.56	ppb	.000	3.56

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 3 Ck3CCV Seq: 16 15:52:50 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.9	1.88	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 15:53:56 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.013	.200	ppb	.000

*** Sample ID: Seq: 18 15:55:56 28 Jun 12 HG
480-21915-a-6-a
Hg .486 ppb .000 .486

*** Sample ID: Seq: 19 15:57:02 28 Jun 12 HG
480-21915-a-7-a
Hg .052 ppb .000 .052

*** Sample ID: Seq: 20 15:58:59 28 Jun 12 HG
480-21915-a-8-a
Hg .163 ppb .000 .163

*** Sample ID: Seq: 21 16:00:06 28 Jun 12 HG
RR 1:20
480-21915-a-9-a
Hg 55.5 H ppb .000 55.5

*** Sample ID: Seq: 22 16:02:01 28 Jun 12 HG
480-21915-a-10-a
Hg 1.36 ppb .000 1.36

*** Sample ID: Seq: 23 16:03:10 28 Jun 12 HG
480-21915-a-11-a
Hg 7.04 ppb .000 7.04

*** Sample ID: Seq: 24 16:04:27 28 Jun 12 HG
480-21915-a-12-a
Hg .083 ppb .000 .083

*** Sample ID: Seq: 25 16:05:37 28 Jun 12 HG
480-21915-a-13-a
Hg .359 ppb .000 .359

*** Sample ID: Seq: 26 16:06:46 28 Jun 12 HG
480-21915-a-14-a
Hg .661 ppb .000 .661

*** Sample ID: Seq: 27 16:07:53 28 Jun 12 HG
480-21915-a-15-a
Hg .036 ppb .000 .036

*** Check Standard: 3 Ck3CCV Seq: 28 16:08:59 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.2	1.84	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 16:10:09 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.015	.200	ppb	.000

*** Sample ID: Seq: 30 16:11:15 28 Jun 12 HG
480-21915-a-16-a
Hg .084 ppb .000 .084

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 16:12:21 28 Jun 12 HG
480-21915-a-17-a

Hg	.146	ppb	.000	.146

*** Sample ID: Seq: 32 16:13:30 28 Jun 12 HG
480-21775-a-1-a

Hg	3.75	ppb	.000	3.75

*** Sample ID: Seq: 33 16:14:40 28 Jun 12 HG
mb 480-70417/1-a

Hg	-.014	ppb	.000	-.014

*** Sample ID: Seq: 34 16:15:50 28 Jun 12 HG
lcssrm 480-70417/2-a

Hg	3.65	ppb	.000	3.65

*** Sample ID: Seq: 35 16:17:00 28 Jun 12 HG
480-21829-a-1-c

Hg	-.039	ppb	.000	-.039

*** Sample ID: Seq: 36 16:18:10 28 Jun 12 HG
480-21829-a-2-c

Hg	-.011	ppb	.000	-.011

*** Sample ID: Seq: 37 16:19:38 28 Jun 12 HG
480-21829-a-3-c

Hg	-.011	ppb	.000	-.011

*** Sample ID: Seq: 38 16:20:45 28 Jun 12 HG
480-21829-a-4-c

Hg	-.013	ppb	.000	-.013

*** Sample ID: Seq: 39 16:21:51 28 Jun 12 HG
480-21829-a-5-g

Hg	.001	ppb	.000	.001

*** Check Standard: 3 Ck3CCV Seq: 40 16:23:03 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.1	1.86	2.00	ppb	.000

~~*** Check Standard: 1 Ck1CCB Seq: 41 16:24:31 28 Jun 12 HG~~

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.031	.200	ppb	.000

*** Sample ID: Seq: 42 16:25:56 28 Jun 12 HG
480-21829-a-5-g SD@5

Hg	-.001	ppb	.000	-.001

*** Sample ID: Seq: 43 16:27:04 28 Jun 12 HG
480-21829-a-5-h ms

Hg	3.53	ppb	.000	3.53

*** Sample ID: Seq: 44 16:28:21 28 Jun 12 HG
480-21829-a-5-i msd

Hg	3.57	ppb	.000	3.57

*** Sample ID: Seq: 45 16:29:32 28 Jun 12 HG
480-21829-a-6-c

Hg	-.038	ppb	.000	-.038

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 46 16:30:40 28 Jun 12 HG
480-21829-a-7-c

Hg	.009	ppb	.000	.009

*** Sample ID: Seq: 47 16:32:06 28 Jun 12 HG
480-21829-a-8-c

Hg	.001	ppb	.000	.001

*** Sample ID: Seq: 48 16:34:37 28 Jun 12 HG
480-21829-a-9-c

Hg	-.035	ppb	.000	-.035

*** Sample ID: Seq: 49 16:36:08 28 Jun 12 HG
480-21829-a-10-c

Hg	-.040	ppb	.000	-.040

*** Sample ID: Seq: 50 16:37:14 28 Jun 12 HG
480-21829-a-11-c

Hg	-.006	ppb	.000	-.006

*** Sample ID: Seq: 51 16:38:24 28 Jun 12 HG
180-11912-c-1-k

Hg	.314	ppb	.000	.314

*** Check Standard: 3 Ck3CCV Seq: 52 16:39:43 28 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		90.4	1.81	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 53 16:40:49 28 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.020	.200	ppb	.000

*** Sample ID: Seq: 54 16:42:06 28 Jun 12 HG
180-11912-c-2-j

Hg	.187	ppb	.000	.187

*** Sample ID: Seq: 55 16:43:13 28 Jun 12 HG
180-11912-c-3-i

Hg	.182	ppb	.000	.182

*** Sample ID: Seq: 56 16:44:32 28 Jun 12 HG
180-11912-c-4-g

Hg	.140	ppb	.000	.140

*** Sample ID: Seq: 57 16:45:59 28 Jun 12 HG
180-11912-a-7-j

Hg	.074	ppb	.000	.074

*** Sample ID: Seq: 58 16:47:25 28 Jun 12 HG
180-11912-a-8-h

Hg	.120	ppb	.000	.120

*** Sample ID: Seq: 59 16:48:52 28 Jun 12 HG
180-11912-a-9-h

Hg	.228	ppb	.000	.228

*** Sample ID: Seq: 60 16:50:11 28 Jun 12 HG
480-21889-a-8-b

Hg	3.31	ppb	.000	3.31

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV        Seq:  61      16:51:28 28 Jun 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          89.8     1.80    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  62      16:52:34 28 Jun 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.064     .200     ppb        .000

*** Sample ID:                       Seq:  63      16:56:29 28 Jun 12   HG
                          480-21915-a-1-a@20
Hg    1.47    ppb       .000      1.47

*** Sample ID:                       Seq:  64      16:57:41 28 Jun 12   HG
                          21915-a-2-a@20
Hg    1.53    ppb       .000      1.53

*** Sample ID:                       Seq:  65      16:59:08 28 Jun 12   HG
                          21915-a-2-a SD@100
Hg    .310    ppb       .000      .310

*** Sample ID:                       Seq:  66      17:00:25 28 Jun 12   HG
                          21915-a-2-b ms@20
Hg    1.86    ppb       .000      1.86

*** Sample ID:                       Seq:  67      17:01:32 28 Jun 12   HG
                          21915-a-2-c msd@20
Hg    1.96    ppb       .000      1.96

*** Sample ID:                       Seq:  68      17:03:22 28 Jun 12   HG
                          480-21915-a-9-a@20
Hg    4.53    ppb       .000      4.53

*** Check Standard: 3  Ck3CCV        Seq:  69      17:04:32 28 Jun 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          86.0     1.72    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  70      17:06:03 28 Jun 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .027     .200     ppb        .000
```

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Batch Number: 70428 Batch Start Date: 06/28/12 13:54 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	EFD_PartSizeRed	EFD_SampleWeight	EFD_VolumeWater Add
LB 480-70428/1		1311, 7470A, 7470A			2000 mL	4.93 SU			
480-21850-A-1	MR-SB-1SS-DP-10-1.5-2	1311, 7470A, 7470A	P	100.49 g	2000 mL	4.95 SU	No	5.34 g	96 mL
480-21917-A-1	MR-SB-1SS-DP-11-2-2.5	1311, 7470A, 7470A	P	100.64 g	2000 mL	4.92 SU	No	5.20 g	96 mL
480-21917-A-2	MR-SB-1SS-DP-14-8-8.5	1311, 7470A, 7470A	P	100.40 g	2000 mL	4.91 SU	No	5.89 g	96 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_InitialpH	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	ExtractionFluid One	ExtractionFluid Two
LB 480-70428/1		1311, 7470A, 7470A					1.12 SU	Yes	No
480-21850-A-1	MR-SB-1SS-DP-10-1.5-2	1311, 7470A, 7470A	P	6.64 SU	3.5	Yes	1.07 SU	Yes	No
480-21917-A-1	MR-SB-1SS-DP-11-2-2.5	1311, 7470A, 7470A	P	5.65 SU	3.5	Yes	1.17 SU	Yes	No
480-21917-A-2	MR-SB-1SS-DP-14-8-8.5	1311, 7470A, 7470A	P	6.59 SU	3.5	Yes	1.33 SU	Yes	No

Lab Sample ID	Client Sample ID	Method Chain	Basis	PartSizeRed	InitialRoomTemp	FinalRoomTemp	VesselNumber	FiltCompDate	FiltCompTime
LB 480-70428/1		1311, 7470A, 7470A			23.00 Celsius	22.00 Celsius	DLE	6/29/12	09:40
480-21850-A-1	MR-SB-1SS-DP-10-1.5-2	1311, 7470A, 7470A	P	No	23.00 Celsius	22.00 Celsius	PLASTIC	6/29/12	09:40
480-21917-A-1	MR-SB-1SS-DP-11-2-2.5	1311, 7470A, 7470A	P	No	23.00 Celsius	22.00 Celsius	PLASTIC	6/29/12	09:40
480-21917-A-2	MR-SB-1SS-DP-14-8-8.5	1311, 7470A, 7470A	P	No	23.00 Celsius	22.00 Celsius	PLASTIC	6/29/12	09:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	LeachVolume	TCLP%Solids	ExtractFluid		
LB 480-70428/1		1311, 7470A, 7470A		4.95 SU	1000/750 mL		1		
480-21850-A-1	MR-SB-1SS-DP-10-1.5-2	1311, 7470A, 7470A	P	4.90 SU	775 mL	100 %	1		
480-21917-A-1	MR-SB-1SS-DP-11-2-2.5	1311, 7470A, 7470A	P	4.85 SU	750 mL	100 %	1		
480-21917-A-2	MR-SB-1SS-DP-14-8-8.5	1311, 7470A, 7470A	P	4.84 SU	750 mL	100 %	1		

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Batch Number: 70428 Batch Start Date: 06/28/12 13:54 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
Batch Comment	pH of 809282 is 4.91
pH Buffer 1 ID	796757
pH Buffer 2 ID	796758
pH Buffer 3 ID	610835
First End time	08:17
pH Meter ID	566020
Room Temperature during Rotation	22.70-24.70 Degrees C
Room Temperature Thermometer ID	80531828
First Start time	16:17
TCLP Fluid 1 ID	809282
Temperature	correction factor + 0.70 Degrees C
ID number of the thermometer	80531828
Tumbler Rotations per Minute	28 RPM
Uncorrected Final Room Temperature	22.00 Celsius
Uncorrected Initial Room Temperature	23.00 Celsius
Uncorrected Room Temperature	22.00-24.00 Celsius
Uncorrected Temperature	22.00 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Batch Number: 70561 Batch Start Date: 06/29/12 09:55 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG_TCLP_W 00020			
LB 480-70428/1-A		7470A, 7470A		30 mL	50 mL				
MB 480-70561/2		7470A, 7470A		30 mL	50 mL				
LCS 480-70561/3		7470A, 7470A		30 mL	50 mL	0.15 mL			
480-21850-A-1-A	MR-SB-1SS-DP-10-1.5-2	7470A, 7470A	P	30 mL	50 mL				
480-21917-A-1-A	MR-SB-1SS-DP-11-2-2.5	7470A, 7470A	P	30 mL	50 mL				
480-21917-A-2-A	MR-SB-1SS-DP-14-8-8.5	7470A, 7470A	P	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch : 70556
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597538
Hot Block ID number	C
Potassium Persulfate Lot Number	747131
Potassium Permanganate Lot Number	770990
Oven, Bath or Block Temperature 1	93.5 Celsius
Pipette ID	MDL-3
Stannous Chloride Lot Number	792748
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	94.0 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Batch Number: 70418 Batch Start Date: 06/28/12 14:30 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00124	MEH_SRM_D071 00001		
MB 480-70418/1		7471A, 7471A		+0.6167 g	50 mL				
LCSSRM 480-70418/2		7471A, 7471A		+0.0527 g	50 mL		0.0527 g		
480-21915-A-1	MR-1SS-DP-11-2-2.5	7471A, 7471A	T	+0.6270 g	50 mL				
480-21915-A-2	MR-1SS-DP-11-12-12.5	7471A, 7471A	T	+0.6206 g	50 mL				
480-21915-A-2 MS	MR-1SS-DP-11-12-12.5	7471A, 7471A	T	+0.6166 g	50 mL	2 mL			
480-21915-A-2 MSD	MR-1SS-DP-11-12-12.5	7471A, 7471A	T	+0.6559 g	50 mL	2 mL			
480-21915-A-3	MR-1SS-DP-11-20-20.5	7471A, 7471A	T	+0.6564 g	50 mL				
480-21915-A-4	MR-1SS-DP-11-28-28.5	7471A, 7471A	T	+0.6336 g	50 mL				
480-21915-A-5	MR-1SS-DP-11-36-36.5	7471A, 7471A	T	+0.6141 g	50 mL				
480-21915-A-6	MR-1SS-DP-11-44-44.5	7471A, 7471A	T	+0.6127 g	50 mL				
480-21915-A-7	MR-1SS-DP-11-56-56.5	7471A, 7471A	T	+0.6389 g	50 mL				
480-21915-A-8	MR-1SS-DP-11-64-64.5	7471A, 7471A	T	+0.6030 g	50 mL				
480-21915-A-9	MR-1SS-DP-14-1.5-2	7471A, 7471A	T	+0.5917 g	50 mL				
480-21915-A-10	MR-1SS-DP-14-8-8.5	7471A, 7471A	T	+0.6112 g	50 mL				
480-21915-A-11	MR-1SS-DP-14-16-16.5	7471A, 7471A	T	+0.6209 g	50 mL				
480-21915-A-12	MR-1SS-DP-14-24-24.5	7471A, 7471A	T	+0.6468 g	50 mL				
480-21915-A-13	MR-1SS-DP-14-32-32.5	7471A, 7471A	T	+0.5837 g	50 mL				
480-21915-A-14	MR-1SS-DP-14-40-40.5	7471A, 7471A	T	+0.6663 g	50 mL				
480-21915-A-15	MR-1SS-DP-14-48-48.5	7471A, 7471A	T	+0.6455 g	50 mL				
480-21915-A-16	MR-1SS-DP-14-56-56.5	7471A, 7471A	T	+0.6060 g	50 mL				
480-21915-A-17	MR-1SS-DP-14-64-64.5	7471A, 7471A	T	+0.6129 g	50 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Batch Number: 70418 Batch Start Date: 06/28/12 14:30 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date:

Batch Notes	
Hydroxylamine Hydrochloride Lot	747243
Balance ID	25850472
Batch Comment	Prep Batch: 70392
Blank Soil Lot Number	52635
Lot # of hydrochloric acid	655020
Lot # of Nitric Acid	597583
Hot Block ID number	B
Potassium Permanganate Lot Number	797048
Oven, Bath or Block Temperature 1	94.5
Pipette ID	HGL-5
Stannous Chloride Lot Number	769081
ID number of the thermometer	A02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-21850-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-1SS-DP-11-2-2.5	480-21915-1
MR-1SS-DP-11-12-12.5	480-21915-2
MR-1SS-DP-11-20-20.5	480-21915-3
MR-1SS-DP-11-28-28.5	480-21915-4
MR-1SS-DP-11-36-36.5	480-21915-5
MR-1SS-DP-11-44-44.5	480-21915-6
MR-1SS-DP-11-56-56.5	480-21915-7
MR-1SS-DP-11-64-64.5	480-21915-8
MR-1SS-DP-14-1.5-2	480-21915-9
MR-1SS-DP-14-8-8.5	480-21915-10
MR-1SS-DP-14-16-16.5	480-21915-11
MR-1SS-DP-14-24-24.5	480-21915-12
MR-1SS-DP-14-32-32.5	480-21915-13
MR-1SS-DP-14-40-40.5	480-21915-14
MR-1SS-DP-14-48-48.5	480-21915-15
MR-1SS-DP-14-56-56.5	480-21915-16
MR-1SS-DP-14-64-64.5	480-21915-17

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-21850-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-21850-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/28/2012 11:58 End Date: 06/28/2012 11:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
480-21915-1	1	T	11:58	X	X																		
480-21915-2	1	T	11:58	X	X																		
480-21915-3	1	T	11:58	X	X																		
480-21915-4	1	T	11:58	X	X																		
480-21915-5	1	T	11:58	X	X																		
480-21915-6	1	T	11:58	X	X																		
480-21915-7	1	T	11:58	X	X																		
480-21915-8	1	T	11:58	X	X																		
480-21915-9	1	T	11:58	X	X																		
480-21915-10	1	T	11:58	X	X																		
480-21915-11	1	T	11:58	X	X																		
480-21915-12	1	T	11:58	X	X																		
480-21915-13	1	T	11:58	X	X																		
480-21915-14	1	T	11:58	X	X																		
480-21915-15	1	T	11:58	X	X																		
480-21915-16	1	T	11:58	X	X																		
480-21915-17	1	T	11:58	X	X																		

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Batch Number: 70405 Batch Start Date: 06/28/12 11:58 Batch Analyst: Robitaille, Zach L

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-21915-A-1	MR-1SS-DP-11-2-2.5	Moisture	T	1	4.45 g	9.20 g	8.97 g		
480-21915-A-2	MR-1SS-DP-11-12-12.5	Moisture	T	2	4.45 g	15.59 g	12.46 g		
480-21915-A-3	MR-1SS-DP-11-20-20.5	Moisture	T	3	4.45 g	13.21 g	10.73 g		
480-21915-A-4	MR-1SS-DP-11-28-28.5	Moisture	T	4	4.45 g	16.07 g	13.69 g		
480-21915-A-5	MR-1SS-DP-11-36-36.5	Moisture	T	5	4.45 g	17.59 g	14.36 g		
480-21915-A-6	MR-1SS-DP-11-44-44.5	Moisture	T	6	4.45 g	15.54 g	13.20 g		
480-21915-A-7	MR-1SS-DP-11-56-56.5	Moisture	T	7	4.45 g	17.46 g	15.23 g		
480-21915-A-8	MR-1SS-DP-11-64-64.5	Moisture	T	8	4.45 g	13.69 g	11.17 g		
480-21915-A-9	MR-1SS-DP-14-1.5-2	Moisture	T	9	4.45 g	19.12 g	18.37 g		
480-21915-A-10	MR-1SS-DP-14-8-8.5	Moisture	T	10	4.45 g	11.42 g	9.63 g		
480-21915-A-11	MR-1SS-DP-14-16-16.5	Moisture	T	11	4.45 g	15.31 g	12.85 g		
480-21915-A-12	MR-1SS-DP-14-24-24.5	Moisture	T	12	4.45 g	18.22 g	14.92 g		
480-21915-A-13	MR-1SS-DP-14-32-32.5	Moisture	T	13	4.45 g	18.02 g	14.78 g		
480-21915-A-14	MR-1SS-DP-14-40-40.5	Moisture	T	14	4.45 g	17.48 g	14.34 g		
480-21915-A-15	MR-1SS-DP-14-48-48.5	Moisture	T	15	4.45 g	15.22 g	12.66 g		
480-21915-A-16	MR-1SS-DP-14-56-56.5	Moisture	T	16	4.45 g	17.28 g	14.68 g		
480-21915-A-17	MR-1SS-DP-14-64-64.5	Moisture	T	17	4.45 g	15.89 g	13.08 g		

Batch Notes	
Batch Comment	pp-bsl-0311 4.45
Date samples were placed in the oven	06/28/12
Time samples were place in the oven	1158
Date samples were removed from oven	06/29/12
Time Samples were removed from oven	1115

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21850-1

SDG No.:

Batch Number: 70405 Batch Start Date: 06/28/12 11:58 Batch Analyst: Robitaille, Zach L

Batch Method: Moisture Batch End Date:

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Brown and Caldwell	Frank Williams	6/26/12	223664
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
110 Commerce Dr.	201-574-4700 / 201-236-1607	–	
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Allendale / NJ / 07401	Katie Mino	Brian Fischer	
Project Name and Location (State)	**Carrier/Waybill Number**		
Mercer Colonie, NY	–		
Contract/Purchase Order/Quote No.			
–			

Analysis (Attach list if more space is needed): Arsenic by USEPA 6010B; TAL Pest TAL

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Arsenic by USEPA 6010B	TAL Pest TAL	Special Instructions/ Conditions of Receipt
MR-SB-1SS-DP-13-35.5-36	6/26/12	7:55				X	X						X		
MR-SB-1SS-DP-13-47-47.5	6/26/12	9:00				X	X						X		
MR-SB-1SS-DP-13-54.5-55	6/26/12	9:15				X	X						X		
MR-DUP-062612	6/26/12	99:99				X	X						X		
MR-SB-1SS-DP-13-64-64.5	6/26/12	10:55				X	X						X		
MR-SB-1SS-DP-10-1.5-2	6/26/12	11:00				X	X						X	X	[illegible]
MR-SB-1SS-DP-10-12-12.5	6/26/12	14:50				X	X						X		
MR-SB-1SS-DP-10-24-24.5	6/26/12	15:10				X	X						X		
MR-SB-1SS-DP-10-32-32.5	6/26/12	15:20				X	X						X		MS/MSD
MR-SB-1SS-DP-10-44-44.5	6/26/12	15:35				X	X						X		
MR-SB-1SS-DP-10-56-56.5	6/26/12	15:55				X	X						X		
MR-SB-1SS-DP-10-66-66.5	6/26/12	16:10				X	X						X		

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	6/26/12	16:45	[signature]	6-26-12	1645
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
[signature]	6-26-12	1700	[signature] TRANSPORTED	6/27/12	0900
3. Relinquished By	**Date**	**Time**	**3. Received By**	**Date**	**Time**

Comments: 2.0°C #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 6/27/12	Chain of Custody Number: 223663
Address: 110 Commerce Drive	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 2 of 3
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Cate Mino	Lab Contact: Brian Fischer	
Project Name and Location (State): Mereco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed): MAVCUP & UJPA SW-846 / 7471A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH		MAVCUP & UJPA SW-846 / 7471A
MR-SB-1SS-DP-11-2-2.5	6/27/12	8:05				X		X							X
MR-SB-1SS-DP-11-12-12.5	6/27/12	8:20				X		X							X
MR-SB-1SS-DP-11-20-20.5	6/27/12	8:45				X		X							X
MR-SB-1SS-DP-11-28-28.5	6/27/12	8:55				X		X							X
MR-SB-1SS-DP-11-36-36.5	6/27/12	9:45				X		X							X
MR-SB-1SS-DP-11-44-44.5	6/27/12	10:15				X		X							X
MR-SB-1SS-DP-11-56-56.5	6/27/12	10:40				X		X							X
MR-SB-1SS-DP-11-64-64.5	6/27/12	10:50				X		X							X
MR-SB-1SS-DP-14-1.5-2	6/27/12	13:25				X		X							X
MR-SB-1SS-DP-14-8-8.5	6/27/12	13:35				X		X							X
MR-SB-1SS-DP-14-16-16.5	6/27/12	13:45				X		X							X
MR-SB-1SS-DP-14-24-24.5	6/27/12	14:00				X		X							X

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	6/27/12	1645	1. Received By	6-27-12	1645
2. Relinquished By	6/27/12	1700	2. Received By	6-28-12	0800
3. Relinquished By			3. Received By		

Comments

20 #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Page 136 of 145
27/05/2012

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 6/27/12	Chain of Custody Number: 223661
Address: 110 Commerce Drive	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 3 of 3
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Carl Mino	Lab Contact: Brian Fischer	
Project Name and Location (State): Meveco Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed): MS/MSD, TAL + USEPA TAL

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	MS/MSD, TAL + USEPA TAL
MR-SB-ISS-DP-14-32-32.5	6/27/12	14:00				X	X						X
MR-SB-ISS-DP-14-40-40.5	6/27/12	14:20				X	X						X
MR-SB-ISS-DP-14-48-48.5	6/27/12	14:30				X	X						X
MR-SB-ISS-DP-14-56-56.5	6/27/12	14:45				X	X						X
MR-SB-ISS-DP-14-64-64.5	6/27/12	15:15				X	X						X

TDL 6-27-12

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/27/12	1645	1. Received By: [signature]	6-27-12	1645
2. Relinquished By: [signature]	6/27/12	1700	2. Received By: [signature]	6-28-12	0800
3. Relinquished By			3. Received By		

Comments: 2.0 H3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21850-1

Login Number: 21850

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kinecki, Kenneth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Brown & Caldwell
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21850-1

Login Number: 21915

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21850-1

Login Number: 21917

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	b+c
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-21920-1

Job Description: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, NJ 07401

Attention: Ms. Carolyn A Spinapolice

Approved for release.
Brian Fischer
Project Manager II
7/18/2012 12:40 PM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com
07/18/2012

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Job Narrative
480-21920-1

Comments
No additional comments.

Receipt
The samples were received on 6/28/2012 9:00 AM, 6/29/2012 9:00 AM, 6/29/2012 9:30 AM and 6/30/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.0º C, 2.0º C, 3.6º C, 3.6º C and 3.6º C.

Metals
Method(s) 7470A: The following sample was diluted due to the abundance of the target analyte total mercury: MR-C-1SS-DP-11-0-0.5 (480-21920-1). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: The Laboratory extraction blank, LB 480-71376/1-B, for analytical batch 71509 contained total mercury above the reporting limit (RL). The associated sample(s) MR-SB-1SS-DP-12-2-2.5 (480-21994-1) contained detects for this analyte at concentrations greater than 10X the value found in the laboratory blank; therefore, re-analysis of samples was not performed.

Method(s) 7470A: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: MR-SB-1SS-DP-12-2-2.5 (480-21994-1). Elevated reporting limits (RLs) are provided.

Method(s) 7471A: The following sample was diluted due to the abundance of the target analyte total mercury: MR-C-1SS-DP-11-0-0.5 (480-21920-1). Elevated reporting limits (RLs) are provided.

Method(s) 7471A: The following sample was diluted due to the abundance of the target analyte total mercury: MR-SB-1SS-DP-12-2-2.5 (480-21994-1), MR-SB-1SS-DP-12-32-32.5 (480-21994-5), MR-SB-1SS-DP-12-9-9.5 (480-21994-3), MR-SB-1SS-DP-15-2-2.5 (480-21994-11), MR-SB-1SS-DP-15-4.5-5 (480-21994-12). Elevated reporting limits (RLs) are provided.

Method(s) 7471A: The following sample was diluted due to the abundance of the target analyte total mercury: MR-SB-1SS-DP-12-32-32.5 (480-21994-5). Elevated reporting limits (RLs) are provided.

Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for mercury batch 70803 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 7471A: The following sample was diluted due to the abundance of the target analyte total mercury: MR-SB-1SS-DP-15-20-20.5 (480-22066-2). Elevated reporting limits (RLs) are provided.

Method(s) 7471A: The Matrix Spike / Matrix Spike Duplicate ((480-21920-1 MS), (480-21920-1 MSD)) precision was outside control limits for total mercury. Non-homogeneity of the sample matrix is suspected. The associated Laboratory Control Sample (LCS) met acceptance criteria, therefore no corrective action was necessary.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-21920-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-21920-1	MR-C-1SS-DP-11-0-0.5	Solid	06/27/2012 0800	06/28/2012 0900
480-21994-1	MR-SB-1SS-DP-12-2-2.5	Solid	06/28/2012 0800	06/29/2012 0930
480-21994-2	MR-SB-1SS-DP-12-5-5.5	Solid	06/28/2012 0805	06/29/2012 0930
480-21994-3	MR-SB-1SS-DP-12-9-9.5	Solid	06/28/2012 0810	06/29/2012 0930
480-21994-4	MR-SB-1SS-DP-12-20-20.5	Solid	06/28/2012 0825	06/29/2012 0930
480-21994-5	MR-SB-1SS-DP-12-32-32.5	Solid	06/28/2012 0855	06/29/2012 0930
480-21994-5MS	MR-SB-1SS-DP-12-32-32.5	Solid	06/28/2012 0855	06/29/2012 0930
480-21994-5MSD	MR-SB-1SS-DP-12-32-32.5	Solid	06/28/2012 0855	06/29/2012 0930
480-21994-6	MR-DUP-062812	Solid	06/28/2012 0000	06/29/2012 0930
480-21994-7	MR-SB-1SS-DP-12-44-44.5	Solid	06/28/2012 0915	06/29/2012 0930
480-21994-8	MR-SB-1SS-DP-12-52-52.5	Solid	06/28/2012 1310	06/29/2012 0930
480-21994-9	MR-SB-1SS-DP-12-62.5-63	Solid	06/28/2012 1340	06/29/2012 0930
480-21994-10	MR-FB-062812	Water	06/28/2012 1500	06/29/2012 0930
480-21994-11	MR-SB-1SS-DP-15-2-2.5	Solid	06/28/2012 1545	06/29/2012 0930
480-21994-12	MR-SB-1SS-DP-15-4.5-5	Solid	06/28/2012 1600	06/29/2012 0930
480-22000-1	MR-SB-1SS-DP-12-5-5.5	Solid	06/28/2012 0805	06/29/2012 0900
480-22000-2	MR-SB-1SS-DP-15-4.5-5	Solid	06/28/2012 1600	06/29/2012 0900
480-22003-1	MR-C-1SS-DP-15-0-0.5	Solid	06/28/2012 1515	06/29/2012 0900
480-22066-1	MR-SB-1SS-DP-15-8.5-9	Solid	06/29/2012 0730	06/30/2012 0900
480-22066-2	MR-SB-1SS-DP-15-20-20.5	Solid	06/29/2012 0745	06/30/2012 0900
480-22066-3	MR-SB-1SS-DP-15-28-28.5	Solid	06/29/2012 0800	06/30/2012 0900
480-22066-4	MR-SB-1SS-DP-15-36-36.5	Solid	06/29/2012 0810	06/30/2012 0900
480-22066-5	MR-DUP-062912	Solid	06/29/2012 0000	06/30/2012 0900
480-22066-6	MR-FB-062912	Water	06/29/2012 0820	06/30/2012 0900
480-22066-7	MW-SB-1SS-DP-15-44-44.5	Solid	06/29/2012 0825	06/30/2012 0900
480-22066-7MS	MW-SB-1SS-DP-15-44-44.5	Solid	06/29/2012 0825	06/30/2012 0900
480-22066-7MSD	MW-SB-1SS-DP-15-44-44.5	Solid	06/29/2012 0825	06/30/2012 0900
480-22066-8	MW-SB-1SS-DP-15-60-60.5	Solid	06/29/2012 0900	06/30/2012 0900
480-22066-9	MW-SB-1SS-DP-15-71.5-72	Solid	06/29/2012 0930	06/30/2012 0900

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-21920-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-21920-1	**MR-C-1SS-DP-11-0-0.5**					
Mercury, Total		5.3		0.42	mg/Kg	7471A
Percent Moisture		3.3		0.10	%	Moisture
Percent Solids		97		0.10	%	Moisture
TCLP						
Mercury		0.028		0.0020	mg/L	7470A
480-21994-1	**MR-SB-1SS-DP-12-2-2.5**					
Mercury, Total		134		10.6	mg/Kg	7471A
Percent Moisture		3.9		0.10	%	Moisture
Percent Solids		96		0.10	%	Moisture
TCLP						
Mercury		0.030	B	0.0010	mg/L	7470A
480-21994-2	**MR-SB-1SS-DP-12-5-5.5**					
Mercury, Total		0.092		0.023	mg/Kg	7471A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
480-21994-3	**MR-SB-1SS-DP-12-9-9.5**					
Mercury, Total		3.3		0.25	mg/Kg	7471A
Percent Moisture		25		0.10	%	Moisture
Percent Solids		75		0.10	%	Moisture
480-21994-4	**MR-SB-1SS-DP-12-20-20.5**					
Percent Moisture		21		0.10	%	Moisture
Percent Solids		79		0.10	%	Moisture
480-21994-5	**MR-SB-1SS-DP-12-32-32.5**					
Mercury, Total		0.96		0.13	mg/Kg	7471A
Percent Moisture		21		0.10	%	Moisture
Percent Solids		79		0.10	%	Moisture
480-21994-6	**MR-DUP-062812**					
Percent Moisture		23		0.10	%	Moisture
Percent Solids		77		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-21920-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-21994-7	**MR-SB-1SS-DP-12-44-44.5**					
Mercury, Total		0.28		0.025	mg/Kg	7471A
Percent Moisture		20		0.10	%	Moisture
Percent Solids		80		0.10	%	Moisture
480-21994-8	**MR-SB-1SS-DP-12-52-52.5**					
Mercury, Total		0.032		0.025	mg/Kg	7471A
Percent Moisture		25		0.10	%	Moisture
Percent Solids		75		0.10	%	Moisture
480-21994-9	**MR-SB-1SS-DP-12-62.5-63**					
Percent Moisture		17		0.10	%	Moisture
Percent Solids		83		0.10	%	Moisture
480-21994-11	**MR-SB-1SS-DP-15-2-2.5**					
Mercury, Total		3.2		0.42	mg/Kg	7471A
Percent Moisture		3.9		0.10	%	Moisture
Percent Solids		96		0.10	%	Moisture
480-21994-12	**MR-SB-1SS-DP-15-4.5-5**					
Mercury, Total		1.2		0.12	mg/Kg	7471A
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture
480-22003-1	**MR-C-1SS-DP-15-0-0.5**					
Mercury, Total		0.16		0.020	mg/Kg	7471A
Percent Moisture		6.1		0.10	%	Moisture
Percent Solids		94		0.10	%	Moisture
TCLP						
Mercury		0.00038		0.00020	mg/L	7470A
480-22066-1	**MR-SB-1SS-DP-15-8.5-9**					
Percent Moisture		20		0.10	%	Moisture
Percent Solids		80		0.10	%	Moisture
480-22066-2	**MR-SB-1SS-DP-15-20-20.5**					
Mercury, Total		1.8		0.25	mg/Kg	7471A
Percent Moisture		27		0.10	%	Moisture
Percent Solids		73		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-21920-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-22066-3	**MR-SB-1SS-DP-15-28-28.5**					
Percent Moisture		24		0.10	%	Moisture
Percent Solids		76		0.10	%	Moisture
480-22066-4	**MR-SB-1SS-DP-15-36-36.5**					
Percent Moisture		22		0.10	%	Moisture
Percent Solids		78		0.10	%	Moisture
480-22066-5	**MR-DUP-062912**					
Percent Moisture		21		0.10	%	Moisture
Percent Solids		79		0.10	%	Moisture
480-22066-7	**MW-SB-1SS-DP-15-44-44.5**					
Percent Moisture		22		0.10	%	Moisture
Percent Solids		78		0.10	%	Moisture
480-22066-8	**MW-SB-1SS-DP-15-60-60.5**					
Percent Moisture		26		0.10	%	Moisture
Percent Solids		74		0.10	%	Moisture
480-22066-9	**MW-SB-1SS-DP-15-71.5-72**					
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture

METHOD SUMMARY

Client: Brown and Caldwell

Job Number: 480-21920-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Mercury (CVAA)	TAL BUF	SW846 7470A	
TCLP Extraction	TAL BUF		SW846 1311
Preparation, Mercury	TAL BUF		SW846 7470A
Mercury (CVAA)	TAL BUF	SW846 7471A	
Preparation, Mercury	TAL BUF		SW846 7471A
Percent Moisture	TAL BUF	EPA Moisture	
Matrix Water			
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Brown and Caldwell

Job Number: 480-21920-1

Method	Analyst	Analyst ID
SW846 7470A	Kacalski, Jason	JRK
SW846 7471A	Kacalski, Jason	JRK
EPA Moisture	Kinecki, Kenneth	KK
EPA Moisture	Robitaille, Zach L	ZLR

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-C-1SS-DP-11-0-0.5**

Lab Sample ID: 480-21920-1

Client Matrix: Solid

Date Sampled: 06/27/2012 0800

Date Received: 06/28/2012 0900

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-71009	Lab File ID:	H07032TC.PRN
Dilution:	10	Leach Batch:	480-70957	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1512			Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	07/03/2012 619				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Mercury		0.028		0.0020

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	20			Initial Weight/Volume:	+0.5878 g
Analysis Date:	06/29/2012 1613			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		5.3		0.42

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-12-2-2.5**

Lab Sample ID: 480-21994-1

Client Matrix: Solid

Date Sampled: 06/28/2012 0800

Date Received: 06/29/2012 0930

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-71607	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-71509	Lab File ID:	H07092TC.PRN
Dilution:	5.0	Leach Batch:	480-71376	Initial Weight/Volume:	30 mL
Analysis Date:	07/09/2012 1217			Final Weight/Volume:	50 mL
Prep Date:	07/09/2012 0700				
Leach Date:	07/06/2012 1228				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Mercury		0.030	B	0.0010

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	500			Initial Weight/Volume:	+0.5892 g
Analysis Date:	06/29/2012 1641			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		134		10.6

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-12-5-5.5**

Lab Sample ID: 480-21994-2

Client Matrix: Solid

% Moisture: 13.8

Date Sampled: 06/28/2012 0805

Date Received: 06/29/2012 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5980 g
Analysis Date:	06/29/2012 1622			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.092		0.023

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-12-9-9.5**

Lab Sample ID: 480-21994-3

Client Matrix: Solid

% Moisture: 25.2

Date Sampled: 06/28/2012 0810

Date Received: 06/29/2012 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	10			Initial Weight/Volume:	+0.6382 g
Analysis Date:	06/29/2012 1623			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		3.3		0.25

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-12-20-20.5**

Lab Sample ID: 480-21994-4

Client Matrix: Solid

% Moisture: 20.8

Date Sampled: 06/28/2012 0825

Date Received: 06/29/2012 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6488 g
Analysis Date:	06/29/2012 1628			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.023

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-12-32-32.5**

Lab Sample ID: 480-21994-5

Client Matrix: Solid

% Moisture: 21.1

Date Sampled: 06/28/2012 0855

Date Received: 06/29/2012 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	5.0			Initial Weight/Volume:	+0.6002 g
Analysis Date:	07/02/2012 1409			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.96		0.13

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-DUP-062812**

Lab Sample ID: 480-21994-6

Client Matrix: Solid

% Moisture: 23.1

Date Sampled: 06/28/2012 0000

Date Received: 06/29/2012 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6073 g
Analysis Date:	06/29/2012 1630			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.026

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-12-44-44.5**

Lab Sample ID: 480-21994-7

Client Matrix: Solid

% Moisture: 20.2

Date Sampled: 06/28/2012 0915

Date Received: 06/29/2012 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6058 g
Analysis Date:	06/29/2012 1552			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.28		0.025

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-12-52-52.5**

Lab Sample ID: 480-21994-8

Client Matrix: Solid

% Moisture: 25.0

Date Sampled: 06/28/2012 1310

Date Received: 06/29/2012 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6321 g
Analysis Date:	06/29/2012 1553			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.032		0.025

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-12-62.5-63**

Lab Sample ID: 480-21994-9

Client Matrix: Solid

% Moisture: 16.7

Date Sampled: 06/28/2012 1340

Date Received: 06/29/2012 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6605 g
Analysis Date:	06/29/2012 1555			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.022

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-FB-062812**

Lab Sample ID: 480-21994-10

Client Matrix: Water

Date Sampled: 06/28/2012 1500

Date Received: 06/29/2012 0930

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-70881	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-70768	Lab File ID:	H07022W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/02/2012 1350			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 0930				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-15-2-2.5**

Lab Sample ID: 480-21994-11

Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 06/28/2012 1545

Date Received: 06/29/2012 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	20			Initial Weight/Volume:	+0.5902 g
Analysis Date:	06/29/2012 1631			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		3.2		0.42

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-15-4.5-5**

Lab Sample ID: 480-21994-12

Client Matrix: Solid

% Moisture: 18.0

Date Sampled: 06/28/2012 1600

Date Received: 06/29/2012 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	5.0			Initial Weight/Volume:	+0.6315 g
Analysis Date:	06/29/2012 1633			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		1.2		0.12

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-12-5-5.5**

Lab Sample ID: 480-22000-1

Client Matrix: Solid

Date Sampled: 06/28/2012 0805

Date Received: 06/29/2012 0900

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-71008	Lab File ID:	H07032TC.PRN
Dilution:	1.0	Leach Batch:	480-70772	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1437			Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	07/02/2012 855				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Mercury		ND		0.00020

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-15-4.5-5**

Lab Sample ID: 480-22000-2

Client Matrix: Solid

Date Sampled: 06/28/2012 1600

Date Received: 06/29/2012 0900

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-71008	Lab File ID:	H07032TC.PRN
Dilution:	1.0	Leach Batch:	480-70772	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1438			Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	07/02/2012 855				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Mercury		ND		0.00020

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-C-1SS-DP-15-0-0.5**

Lab Sample ID: 480-22003-1

Client Matrix: Solid

Date Sampled: 06/28/2012 1515

Date Received: 06/29/2012 0900

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-71009	Lab File ID:	H07032TC.PRN
Dilution:	1.0	Leach Batch:	480-70957	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1502			Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	07/03/2012 619				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Mercury		0.00038		0.00020

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6385 g
Analysis Date:	07/02/2012 1453			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		0.16		0.020

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-15-8.5-9**

Lab Sample ID: 480-22066-1

Client Matrix: Solid

% Moisture: 19.8

Date Sampled: 06/29/2012 0730

Date Received: 06/30/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6180 g
Analysis Date:	07/02/2012 1454			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.024

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-15-20-20.5**

Lab Sample ID: 480-22066-2

Client Matrix: Solid

% Moisture: 27.3

Date Sampled: 06/29/2012 0745

Date Received: 06/30/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	10			Initial Weight/Volume:	+0.6655 g
Analysis Date:	07/02/2012 1422			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		1.8		0.25

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-15-28-28.5**

Lab Sample ID: 480-22066-3

Client Matrix: Solid

% Moisture: 24.2

Date Sampled: 06/29/2012 0800

Date Received: 06/30/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6515 g
Analysis Date:	07/02/2012 1456			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.024

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-SB-1SS-DP-15-36-36.5**

Lab Sample ID: 480-22066-4

Client Matrix: Solid

% Moisture: 22.2

Date Sampled: 06/29/2012 0810

Date Received: 06/30/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6586 g
Analysis Date:	07/02/2012 1457			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.023

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-DUP-062912**

Lab Sample ID: 480-22066-5

Client Matrix: Solid

% Moisture: 21.0

Date Sampled: 06/29/2012 0000

Date Received: 06/30/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5944 g
Analysis Date:	07/02/2012 1458			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.026

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MR-FB-062912**

Lab Sample ID: 480-22066-6

Client Matrix: Water

Date Sampled: 06/29/2012 0820

Date Received: 06/30/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-70881	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-70768	Lab File ID:	H07022W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/02/2012 1356			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 0930				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MW-SB-1SS-DP-15-44-44.5**

Lab Sample ID: 480-22066-7

Client Matrix: Solid

% Moisture: 22.0

Date Sampled: 06/29/2012 0825

Date Received: 06/30/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5959 g
Analysis Date:	07/02/2012 1459			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.026

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MW-SB-1SS-DP-15-60-60.5**

Lab Sample ID: 480-22066-8

Client Matrix: Solid

% Moisture: 26.4

Date Sampled: 06/29/2012 0900

Date Received: 06/30/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6037 g
Analysis Date:	07/02/2012 1504			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.027

Client: Brown and Caldwell

Job Number: 480-21920-1

Client Sample ID: **MW-SB-1SS-DP-15-71.5-72**

Lab Sample ID: 480-22066-9

Client Matrix: Solid

% Moisture: 14.4

Date Sampled: 06/29/2012 0930

Date Received: 06/30/2012 0900

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5934 g
Analysis Date:	07/02/2012 1508			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury, Total		ND		0.024

General Chemistry

Client Sample ID: **MR-C-1SS-DP-11-0-0.5**

Lab Sample ID: 480-21920-1

Client Matrix: Solid

Date Sampled: 06/27/2012 0800

Date Received: 06/28/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	3.3		%	0.10	1.0	Moisture
	Analysis Batch: 480-70610		Analysis Date: 06/29/2012 1339			DryWt Corrected: N
Percent Solids	97		%	0.10	1.0	Moisture
	Analysis Batch: 480-70610		Analysis Date: 06/29/2012 1339			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-12-2-2.5**

Lab Sample ID: 480-21994-1

Client Matrix: Solid

Date Sampled: 06/28/2012 0800

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	3.9		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	96		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-12-5-5.5**

Lab Sample ID: 480-21994-2

Client Matrix: Solid

Date Sampled: 06/28/2012 0805

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	14		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	86		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-12-9-9.5**

Lab Sample ID: 480-21994-3

Client Matrix: Solid

Date Sampled: 06/28/2012 0810

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	25		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	75		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-12-20-20.5**

Lab Sample ID: 480-21994-4

Client Matrix: Solid

Date Sampled: 06/28/2012 0825

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	21		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	79		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-12-32-32.5**

Lab Sample ID: 480-21994-5

Client Matrix: Solid

Date Sampled: 06/28/2012 0855

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	21		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	79		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-DUP-062812**

Lab Sample ID: 480-21994-6

Client Matrix: Solid

Date Sampled: 06/28/2012 0000

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	23		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	77		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-12-44-44.5**

Lab Sample ID: 480-21994-7

Client Matrix: Solid

Date Sampled: 06/28/2012 0915

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	20		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	80		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-12-52-52.5**

Lab Sample ID: 480-21994-8

Client Matrix: Solid

Date Sampled: 06/28/2012 1310

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	25		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	75		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-12-62.5-63**

Lab Sample ID: 480-21994-9

Client Matrix: Solid

Date Sampled: 06/28/2012 1340

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	17		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	83		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-15-2-2.5**

Lab Sample ID: 480-21994-11

Client Matrix: Solid

Date Sampled: 06/28/2012 1545

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	3.9		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	96		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-15-4.5-5**

Lab Sample ID: 480-21994-12

Client Matrix: Solid

Date Sampled: 06/28/2012 1600

Date Received: 06/29/2012 0930

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	18		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N
Percent Solids	82		%	0.10	1.0	Moisture
	Analysis Batch: 480-70615		Analysis Date: 06/29/2012 1357			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-C-1SS-DP-15-0-0.5**

Lab Sample ID: 480-22003-1

Client Matrix: Solid

Date Sampled: 06/28/2012 1515

Date Received: 06/29/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	6.1		%	0.10	1.0	Moisture
	Analysis Batch: 480-71047		Analysis Date: 07/03/2012 1200			DryWt Corrected: N
Percent Solids	94		%	0.10	1.0	Moisture
	Analysis Batch: 480-71047		Analysis Date: 07/03/2012 1200			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-15-8.5-9**

Lab Sample ID: 480-22066-1

Client Matrix: Solid

Date Sampled: 06/29/2012 0730

Date Received: 06/30/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	20		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N
Percent Solids	80		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-15-20-20.5**

Lab Sample ID: 480-22066-2

Client Matrix: Solid

Date Sampled: 06/29/2012 0745

Date Received: 06/30/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	27		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N
Percent Solids	73		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-15-28-28.5**

Lab Sample ID: 480-22066-3

Client Matrix: Solid

Date Sampled: 06/29/2012 0800

Date Received: 06/30/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	24		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N
Percent Solids	76		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-SB-1SS-DP-15-36-36.5**

Lab Sample ID: 480-22066-4

Client Matrix: Solid

Date Sampled: 06/29/2012 0810

Date Received: 06/30/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	22		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N
Percent Solids	78		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N

General Chemistry

Client Sample ID: **MR-DUP-062912**

Lab Sample ID: 480-22066-5

Client Matrix: Solid

Date Sampled: 06/29/2012 0000

Date Received: 06/30/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	21		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N
Percent Solids	79		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N

General Chemistry

Client Sample ID: **MW-SB-1SS-DP-15-44-44.5**

Lab Sample ID: 480-22066-7

Client Matrix: Solid

Date Sampled: 06/29/2012 0825

Date Received: 06/30/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	22		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N
Percent Solids	78		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1243			DryWt Corrected: N

General Chemistry

Client Sample ID: **MW-SB-1SS-DP-15-60-60.5**

Lab Sample ID: 480-22066-8

Client Matrix: Solid

Date Sampled: 06/29/2012 0900

Date Received: 06/30/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	26		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1246			DryWt Corrected: N
Percent Solids	74		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1246			DryWt Corrected: N

General Chemistry

Client Sample ID: **MW-SB-1SS-DP-15-71.5-72**

Lab Sample ID: 480-22066-9

Client Matrix: Solid

Date Sampled: 06/29/2012 0930

Date Received: 06/30/2012 0900

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	14		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1246			DryWt Corrected: N
Percent Solids	86		%	0.10	1.0	Moisture
	Analysis Batch: 480-70843		Analysis Date: 07/02/2012 1246			DryWt Corrected: N

Client: Brown and Caldwell

Job Number: 480-21920-1

Method Blank - Batch: 480-70768

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-70768/1-A	Analysis Batch:	480-70881	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70768	Lab File ID:	H07022W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/02/2012 1321	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 0930				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-70768

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-70768/2-A	Analysis Batch:	480-70881	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70768	Lab File ID:	H07022W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/02/2012 1322	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 0930				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.87	103	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70768

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-21994-10	Analysis Batch:	480-70881	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70768	Lab File ID:	H07022W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/02/2012 1353			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 0930				
Leach Date:	N/A				

MSD Lab Sample ID:	480-21994-10	Analysis Batch:	480-70881	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70768	Lab File ID:	H07022W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/02/2012 1355			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 0930				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Total	101	99	75 - 125	2	20		

Client: Brown and Caldwell

Job Number: 480-21920-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70768

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-21994-10	Units: ug/L	MSD Lab Sample ID:	480-21994-10
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	07/02/2012 1353		Analysis Date:	07/02/2012 1355
Prep Date:	07/02/2012 0930		Prep Date:	07/02/2012 0930
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury, Total	ND	6.67	6.67	6.73	6.60

Serial Dilution - Batch: 480-70768

Method: 7470A
Preparation: 7470A

Lab Sample ID:	480-21994-10	Analysis Batch:	480-70881	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-70768	Lab File ID:	H07022W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/02/2012 1351	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 0930				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Total	ND	ND	NC	10	

Client: Brown and Caldwell

Job Number: 480-21920-1

TCLP SPLPE Leachate Blank - Batch: 480-71008

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB 480-70772/1-C	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-71008	Lab File ID:	H07032TC.PRN
Dilution:	1.0	Leach Batch:	480-70772	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1420	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	07/02/2012 0855				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Method Blank - Batch: 480-71008

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-71008/2-A	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-71008	Lab File ID:	H07032TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1425	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Lab Control Sample - Batch: 480-71008

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-71008/3-A	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-71008	Lab File ID:	H07032TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1427	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00668	0.00658	99	80 - 120	

Client: Brown and Caldwell

Job Number: 480-21920-1

TCLP SPLPW Leachate Blank - Batch: 480-71009

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB2 480-70957/3-B	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-71009	Lab File ID:	H07032TC.PRN
Dilution:	1.0	Leach Batch:	480-70957	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1449	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	07/03/2012 0619				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Method Blank - Batch: 480-71009

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-71009/2-A	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-71009	Lab File ID:	H07032TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1451	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Lab Control Sample - Batch: 480-71009

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-71009/3-A	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-71009	Lab File ID:	H07032TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1453	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00668	0.00663	99	80 - 120	

Client: Brown and Caldwell

Job Number: 480-21920-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-71009

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID:	480-21920-1	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-71009	Lab File ID:	H07032TC.PRN
Dilution:	10	Leach Batch:	480-70957	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1515			Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	07/03/2012 0619				

MSD Lab Sample ID:	480-21920-1	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-71009	Lab File ID:	H07032TC.PRN
Dilution:	10	Leach Batch:	480-70957	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1517			Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	07/03/2012 0619				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	117	132	75 - 125	3	20	4	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-71009

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID:	480-21920-1	Units:	mg/L
Client Matrix:	Solid		
Dilution:	10		
Analysis Date:	07/03/2012 1515		
Prep Date:	07/03/2012 1115		
Leach Date:	07/03/2012 0619		

MSD Lab Sample ID:	480-21920-1
Client Matrix:	Solid
Dilution:	10
Analysis Date:	07/03/2012 1517
Prep Date:	07/03/2012 1115
Leach Date:	07/03/2012 0619

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury	0.028	0.00668	0.00668	0.0360	4	0.0370	4

Serial Dilution - Batch: 480-71009

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	480-21920-1	Analysis Batch:	480-71086	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-71009	Lab File ID:	H07032TC.PRN
Dilution:	50	Leach Batch:	480-70957	Initial Weight/Volume:	30 mL
Analysis Date:	07/03/2012 1513	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/03/2012 1115				
Leach Date:	07/03/2012 0619				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury	0.028	0.0254	NC	10	

Client: Brown and Caldwell

Job Number: 480-21920-1

TCLP SPLPE Leachate Blank - Batch: 480-71509

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB 480-71376/1-B	Analysis Batch:	480-71607	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-71509	Lab File ID:	H07092TC.PRN
Dilution:	1.0	Leach Batch:	480-71376	Initial Weight/Volume:	30 mL
Analysis Date:	07/09/2012 1145	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/09/2012 0700				
Leach Date:	07/06/2012 1228				

Analyte	Result	Qual	RL
Mercury	0.00138		0.00020

Method Blank - Batch: 480-71509

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-71509/2-A	Analysis Batch:	480-71607	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-71509	Lab File ID:	H07092TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/09/2012 1147	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/09/2012 0700				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Lab Control Sample - Batch: 480-71509

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-71509/3-A	Analysis Batch:	480-71607	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-71509	Lab File ID:	H07092TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/09/2012 1149	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/09/2012 0700				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00668	0.00732	110	80 - 120	

Client: Brown and Caldwell

Job Number: 480-21920-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-71509

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID:	480-21994-1	Analysis Batch:	480-71607	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-71509	Lab File ID:	H07092TC.PRN
Dilution:	5.0	Leach Batch:	480-71376	Initial Weight/Volume:	30 mL
Analysis Date:	07/09/2012 1220			Final Weight/Volume:	50 mL
Prep Date:	07/09/2012 0700				
Leach Date:	07/06/2012 1228				

MSD Lab Sample ID:	480-21994-1	Analysis Batch:	480-71607	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-71509	Lab File ID:	H07092TC.PRN
Dilution:	5.0	Leach Batch:	480-71376	Initial Weight/Volume:	30 mL
Analysis Date:	07/09/2012 1222			Final Weight/Volume:	50 mL
Prep Date:	07/09/2012 0700				
Leach Date:	07/06/2012 1228				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	59	85	75 - 125	5	20	4	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-71509

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID:	480-21994-1	Units: mg/L	
Client Matrix:	Solid		
Dilution:	5.0		
Analysis Date:	07/09/2012 1220		
Prep Date:	07/09/2012 0700		
Leach Date:	07/06/2012 1228		

MSD Lab Sample ID:	480-21994-1
Client Matrix:	Solid
Dilution:	5.0
Analysis Date:	07/09/2012 1222
Prep Date:	07/09/2012 0700
Leach Date:	07/06/2012 1228

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury	0.030	0.00668	0.00668	0.0340	4	0.0358	4

Serial Dilution - Batch: 480-71509

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	480-21994-1	Analysis Batch:	480-71607	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-71509	Lab File ID:	H07092TC.PRN
Dilution:	25	Leach Batch:	480-71376	Initial Weight/Volume:	30 mL
Analysis Date:	07/09/2012 1219	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/09/2012 0700				
Leach Date:	07/06/2012 1228				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury	0.030	0.0308	2.2	10	

Client: Brown and Caldwell

Job Number: 480-21920-1

Method Blank - Batch: 480-70616

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 480-70616/1-A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5980 g
Analysis Date:	06/29/2012 1525	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.020

LCS-Certified Reference Material - Batch: 480-70616

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM 480-70616/2-A	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0529 g
Analysis Date:	06/29/2012 1526	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	3.77	3.72	98.8	71.6 - 128.4	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70616

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-21920-1	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	+0.5993 g
Analysis Date:	06/29/2012 1616			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				
Leach Date:	N/A				

MSD Lab Sample ID:	480-21920-1	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	+0.5913 g
Analysis Date:	06/29/2012 1617			Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Total	1090	236	75 - 125	38	20	4	4 F

Client: Brown and Caldwell

Job Number: 480-21920-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70616

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-21920-1	Units: mg/Kg	MSD Lab Sample ID:	480-21920-1
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	20		Dilution:	20
Analysis Date:	06/29/2012 1616		Analysis Date:	06/29/2012 1617
Prep Date:	06/29/2012 1430		Prep Date:	06/29/2012 1430
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury, Total	5.3	0.345	0.350	9.11	4	6.17	4 F

Serial Dilution - Batch: 480-70616

Method: 7471A
Preparation: 7471A

Lab Sample ID:	480-21920-1	Analysis Batch:	480-70747	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70616	Lab File ID:	J06292S1.PRN
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	+0.5878 g
Analysis Date:	06/29/2012 1615	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/29/2012 1430				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Total	5.3	5.14	3.8	10	

Client: Brown and Caldwell

Job Number: 480-21920-1

Method Blank - Batch: 480-70803

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 480-70803/1-A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5988 g
Analysis Date:	07/02/2012 1407	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.020

LCS-Certified Reference Material - Batch: 480-70803

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM 480-70803/2-A	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0530 g
Analysis Date:	07/02/2012 1408	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	3.77	3.69	97.8	71.6 - 128.4	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70803

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-21994-5	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6311 g
Analysis Date:	07/02/2012 1411			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				
Leach Date:	N/A				

MSD Lab Sample ID:	480-21994-5	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6542 g
Analysis Date:	07/02/2012 1413			Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Total	168	141	75 - 125	8	20	F	F

Client: Brown and Caldwell

Job Number: 480-21920-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-70803

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-21994-5	Units: mg/Kg	MSD Lab Sample ID:	480-21994-5
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	5.0		Dilution:	5.0
Analysis Date:	07/02/2012 1411		Analysis Date:	07/02/2012 1413
Prep Date:	07/02/2012 1040		Prep Date:	07/02/2012 1040
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury, Total	0.96	0.402	0.388	1.64	F	1.51	F

Serial Dilution - Batch: 480-70803

Method: 7471A
Preparation: 7471A

Lab Sample ID:	480-21994-5	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	25	Leach Batch:	N/A	Initial Weight/Volume:	+0.6002 g
Analysis Date:	07/02/2012 1410	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Total	0.96	0.826	NC	10	

Serial Dilution - Batch: 480-70803

Method: 7471A
Preparation: 7471A

Lab Sample ID:	480-22066-7	Analysis Batch:	480-70890	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-70803	Lab File ID:	J07022S1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5959 g
Analysis Date:	07/02/2012 1501	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/02/2012 1040				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Total	ND	ND	NC	10	

DATA REPORTING QUALIFIERS

Client: Brown and Caldwell

Job Number: 480-21920-1

Lab Section	Qualifier	Description
Metals		
	B	Compound was found in the blank and sample.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	F	RPD of the MS and MSD exceeds the control limits

Client: Brown and Caldwell

Job Number: 480-21920-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-70616					
LCSSRM 480-70616/2-A	LCS-Certified Reference Material	T	Solid	7471A	
MB 480-70616/1-A	Method Blank	T	Solid	7471A	
480-21920-1	MR-C-1SS-DP-11-0-0.5	T	Solid	7471A	
480-21920-1MS	Matrix Spike	T	Solid	7471A	
480-21920-1MSD	Matrix Spike Duplicate	T	Solid	7471A	
480-21994-1	MR-SB-1SS-DP-12-2-2.5	T	Solid	7471A	
480-21994-2	MR-SB-1SS-DP-12-5-5.5	T	Solid	7471A	
480-21994-3	MR-SB-1SS-DP-12-9-9.5	T	Solid	7471A	
480-21994-4	MR-SB-1SS-DP-12-20-20.5	T	Solid	7471A	
480-21994-5	MR-SB-1SS-DP-12-32-32.5	T	Solid	7471A	
480-21994-6	MR-DUP-062812	T	Solid	7471A	
480-21994-7	MR-SB-1SS-DP-12-44-44.5	T	Solid	7471A	
480-21994-8	MR-SB-1SS-DP-12-52-52.5	T	Solid	7471A	
480-21994-9	MR-SB-1SS-DP-12-62.5-63	T	Solid	7471A	
480-21994-11	MR-SB-1SS-DP-15-2-2.5	T	Solid	7471A	
480-21994-12	MR-SB-1SS-DP-15-4.5-5	T	Solid	7471A	
Analysis Batch:480-70747					
LCSSRM 480-70616/2-A	LCS-Certified Reference Material	T	Solid	7471A	480-70616
MB 480-70616/1-A	Method Blank	T	Solid	7471A	480-70616
480-21920-1	MR-C-1SS-DP-11-0-0.5	T	Solid	7471A	480-70616
480-21920-1MS	Matrix Spike	T	Solid	7471A	480-70616
480-21920-1MSD	Matrix Spike Duplicate	T	Solid	7471A	480-70616
480-21994-1	MR-SB-1SS-DP-12-2-2.5	T	Solid	7471A	480-70616
480-21994-2	MR-SB-1SS-DP-12-5-5.5	T	Solid	7471A	480-70616
480-21994-3	MR-SB-1SS-DP-12-9-9.5	T	Solid	7471A	480-70616
480-21994-4	MR-SB-1SS-DP-12-20-20.5	T	Solid	7471A	480-70616
480-21994-5	MR-SB-1SS-DP-12-32-32.5	T	Solid	7471A	480-70616
480-21994-6	MR-DUP-062812	T	Solid	7471A	480-70616
480-21994-7	MR-SB-1SS-DP-12-44-44.5	T	Solid	7471A	480-70616
480-21994-8	MR-SB-1SS-DP-12-52-52.5	T	Solid	7471A	480-70616
480-21994-9	MR-SB-1SS-DP-12-62.5-63	T	Solid	7471A	480-70616
480-21994-11	MR-SB-1SS-DP-15-2-2.5	T	Solid	7471A	480-70616
480-21994-12	MR-SB-1SS-DP-15-4.5-5	T	Solid	7471A	480-70616
Prep Batch: 480-70768					
LCS 480-70768/2-A	Lab Control Sample	T	Water	7470A	
MB 480-70768/1-A	Method Blank	T	Water	7470A	
480-21994-10	MR-FB-062812	T	Water	7470A	
480-21994-10MS	Matrix Spike	T	Water	7470A	
480-21994-10MSD	Matrix Spike Duplicate	T	Water	7470A	
480-22066-6	MR-FB-062912	T	Water	7470A	

Client: Brown and Caldwell

Job Number: 480-21920-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-70772					
LB 480-70772/1-C	TCLP SPLPE Leachate Blank	P	Solid	1311	
480-22000-1	MR-SB-1SS-DP-12-5-5.5	P	Solid	1311	
480-22000-2	MR-SB-1SS-DP-15-4.5-5	P	Solid	1311	
Prep Batch: 480-70803					
LCSSRM 480-70803/2-A	LCS-Certified Reference Material	T	Solid	7471A	
MB 480-70803/1-A	Method Blank	T	Solid	7471A	
480-21994-5	MR-SB-1SS-DP-12-32-32.5	T	Solid	7471A	
480-21994-5MS	Matrix Spike	T	Solid	7471A	
480-21994-5MSD	Matrix Spike Duplicate	T	Solid	7471A	
480-22003-1	MR-C-1SS-DP-15-0-0.5	T	Solid	7471A	
480-22066-1	MR-SB-1SS-DP-15-8.5-9	T	Solid	7471A	
480-22066-2	MR-SB-1SS-DP-15-20-20.5	T	Solid	7471A	
480-22066-3	MR-SB-1SS-DP-15-28-28.5	T	Solid	7471A	
480-22066-4	MR-SB-1SS-DP-15-36-36.5	T	Solid	7471A	
480-22066-5	MR-DUP-062912	T	Solid	7471A	
480-22066-7	MW-SB-1SS-DP-15-44-44.5	T	Solid	7471A	
480-22066-7MS	Matrix Spike	T	Solid	7471A	
480-22066-7MSD	Matrix Spike Duplicate	T	Solid	7471A	
480-22066-8	MW-SB-1SS-DP-15-60-60.5	T	Solid	7471A	
480-22066-9	MW-SB-1SS-DP-15-71.5-72	T	Solid	7471A	
Analysis Batch:480-70881					
LCS 480-70768/2-A	Lab Control Sample	T	Water	7470A	480-70768
MB 480-70768/1-A	Method Blank	T	Water	7470A	480-70768
480-21994-10	MR-FB-062812	T	Water	7470A	480-70768
480-21994-10MS	Matrix Spike	T	Water	7470A	480-70768
480-21994-10MSD	Matrix Spike Duplicate	T	Water	7470A	480-70768
480-22066-6	MR-FB-062912	T	Water	7470A	480-70768

Client: Brown and Caldwell

Job Number: 480-21920-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-70890					
LCSSRM 480-70803/2-A	LCS-Certified Reference Material	T	Solid	7471A	480-70803
MB 480-70803/1-A	Method Blank	T	Solid	7471A	480-70803
480-21994-5	MR-SB-1SS-DP-12-32-32.5	T	Solid	7471A	480-70803
480-21994-5MS	Matrix Spike	T	Solid	7471A	480-70803
480-21994-5MSD	Matrix Spike Duplicate	T	Solid	7471A	480-70803
480-22003-1	MR-C-1SS-DP-15-0-0.5	T	Solid	7471A	480-70803
480-22066-1	MR-SB-1SS-DP-15-8.5-9	T	Solid	7471A	480-70803
480-22066-2	MR-SB-1SS-DP-15-20-20.5	T	Solid	7471A	480-70803
480-22066-3	MR-SB-1SS-DP-15-28-28.5	T	Solid	7471A	480-70803
480-22066-4	MR-SB-1SS-DP-15-36-36.5	T	Solid	7471A	480-70803
480-22066-5	MR-DUP-062912	T	Solid	7471A	480-70803
480-22066-7	MW-SB-1SS-DP-15-44-44.5	T	Solid	7471A	480-70803
480-22066-7MS	Matrix Spike	T	Solid	7471A	480-70803
480-22066-7MSD	Matrix Spike Duplicate	T	Solid	7471A	480-70803
480-22066-8	MW-SB-1SS-DP-15-60-60.5	T	Solid	7471A	480-70803
480-22066-9	MW-SB-1SS-DP-15-71.5-72	T	Solid	7471A	480-70803
Prep Batch: 480-70957					
LB2 480-70957/3-B	TCLP SPLPW Leachate Blank	P	Solid	1311	
480-21920-1	MR-C-1SS-DP-11-0-0.5	P	Solid	1311	
480-21920-1MS	Matrix Spike	P	Solid	1311	
480-21920-1MSD	Matrix Spike Duplicate	P	Solid	1311	
480-22003-1	MR-C-1SS-DP-15-0-0.5	P	Solid	1311	
Prep Batch: 480-71008					
LCS 480-71008/3-A	Lab Control Sample	T	Water	7470A	
MB 480-71008/2-A	Method Blank	T	Water	7470A	
LB 480-70772/1-C	TCLP SPLPE Leachate Blank	P	Solid	7470A	480-70772
480-22000-1	MR-SB-1SS-DP-12-5-5.5	P	Solid	7470A	480-70772
480-22000-2	MR-SB-1SS-DP-15-4.5-5	P	Solid	7470A	480-70772
Prep Batch: 480-71009					
LCS 480-71009/3-A	Lab Control Sample	T	Water	7470A	
MB 480-71009/2-A	Method Blank	T	Water	7470A	
LB2 480-70957/3-B	TCLP SPLPW Leachate Blank	P	Solid	7470A	480-70957
480-21920-1	MR-C-1SS-DP-11-0-0.5	P	Solid	7470A	480-70957
480-21920-1MS	Matrix Spike	P	Solid	7470A	480-70957
480-21920-1MSD	Matrix Spike Duplicate	P	Solid	7470A	480-70957
480-22003-1	MR-C-1SS-DP-15-0-0.5	P	Solid	7470A	480-70957

Client: Brown and Caldwell

Job Number: 480-21920-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-71086					
LB 480-70772/1-C	TCLP SPLPE Leachate Blank	P	Solid	7470A	480-71008
LCS 480-71008/3-A	Lab Control Sample	T	Water	7470A	480-71008
MB 480-71008/2-A	Method Blank	T	Water	7470A	480-71008
LB2 480-70957/3-B	TCLP SPLPW Leachate Blank	P	Solid	7470A	480-71009
LCS 480-71009/3-A	Lab Control Sample	T	Water	7470A	480-71009
MB 480-71009/2-A	Method Blank	T	Water	7470A	480-71009
480-21920-1	MR-C-1SS-DP-11-0-0.5	P	Solid	7470A	480-71009
480-21920-1MS	Matrix Spike	P	Solid	7470A	480-71009
480-21920-1MSD	Matrix Spike Duplicate	P	Solid	7470A	480-71009
480-22000-1	MR-SB-1SS-DP-12-5-5.5	P	Solid	7470A	480-71008
480-22000-2	MR-SB-1SS-DP-15-4.5-5	P	Solid	7470A	480-71008
480-22003-1	MR-C-1SS-DP-15-0-0.5	P	Solid	7470A	480-71009
Prep Batch: 480-71376					
LB 480-71376/1-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
480-21994-1	MR-SB-1SS-DP-12-2-2.5	P	Solid	1311	
480-21994-1MS	Matrix Spike	P	Solid	1311	
480-21994-1MSD	Matrix Spike Duplicate	P	Solid	1311	
Prep Batch: 480-71509					
LCS 480-71509/3-A	Lab Control Sample	T	Water	7470A	
MB 480-71509/2-A	Method Blank	T	Water	7470A	
LB 480-71376/1-B	TCLP SPLPE Leachate Blank	P	Solid	7470A	480-71376
480-21994-1	MR-SB-1SS-DP-12-2-2.5	P	Solid	7470A	480-71376
480-21994-1MS	Matrix Spike	P	Solid	7470A	480-71376
480-21994-1MSD	Matrix Spike Duplicate	P	Solid	7470A	480-71376
Analysis Batch:480-71607					
LB 480-71376/1-B	TCLP SPLPE Leachate Blank	P	Solid	7470A	480-71509
LCS 480-71509/3-A	Lab Control Sample	T	Water	7470A	480-71509
MB 480-71509/2-A	Method Blank	T	Water	7470A	480-71509
480-21994-1	MR-SB-1SS-DP-12-2-2.5	P	Solid	7470A	480-71509
480-21994-1MS	Matrix Spike	P	Solid	7470A	480-71509
480-21994-1MSD	Matrix Spike Duplicate	P	Solid	7470A	480-71509

Report Basis

P = TCLP

T = Total

Client: Brown and Caldwell

Job Number: 480-21920-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-70610					
480-21920-1	MR-C-1SS-DP-11-0-0.5	T	Solid	Moisture	
Analysis Batch:480-70615					
480-21994-1	MR-SB-1SS-DP-12-2-2.5	T	Solid	Moisture	
480-21994-2	MR-SB-1SS-DP-12-5-5.5	T	Solid	Moisture	
480-21994-3	MR-SB-1SS-DP-12-9-9.5	T	Solid	Moisture	
480-21994-4	MR-SB-1SS-DP-12-20-20.5	T	Solid	Moisture	
480-21994-5	MR-SB-1SS-DP-12-32-32.5	T	Solid	Moisture	
480-21994-5MS	Matrix Spike	T	Solid	Moisture	
480-21994-5MSD	Matrix Spike Duplicate	T	Solid	Moisture	
480-21994-6	MR-DUP-062812	T	Solid	Moisture	
480-21994-7	MR-SB-1SS-DP-12-44-44.5	T	Solid	Moisture	
480-21994-8	MR-SB-1SS-DP-12-52-52.5	T	Solid	Moisture	
480-21994-9	MR-SB-1SS-DP-12-62.5-63	T	Solid	Moisture	
480-21994-11	MR-SB-1SS-DP-15-2-2.5	T	Solid	Moisture	
480-21994-12	MR-SB-1SS-DP-15-4.5-5	T	Solid	Moisture	
Analysis Batch:480-70843					
480-22066-1	MR-SB-1SS-DP-15-8.5-9	T	Solid	Moisture	
480-22066-2	MR-SB-1SS-DP-15-20-20.5	T	Solid	Moisture	
480-22066-3	MR-SB-1SS-DP-15-28-28.5	T	Solid	Moisture	
480-22066-4	MR-SB-1SS-DP-15-36-36.5	T	Solid	Moisture	
480-22066-5	MR-DUP-062912	T	Solid	Moisture	
480-22066-7	MW-SB-1SS-DP-15-44-44.5	T	Solid	Moisture	
480-22066-7MS	Matrix Spike	T	Solid	Moisture	
480-22066-7MSD	Matrix Spike Duplicate	T	Solid	Moisture	
480-22066-8	MW-SB-1SS-DP-15-60-60.5	T	Solid	Moisture	
480-22066-9	MW-SB-1SS-DP-15-71.5-72	T	Solid	Moisture	
Analysis Batch:480-71047					
480-22003-1	MR-C-1SS-DP-15-0-0.5	T	Solid	Moisture	

Report Basis

T = Total

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-21920-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Client: Brown and Caldwell

Job Number: 480-21920-1

Laboratory Chronicle

Lab ID: **480-21920-1** **Client ID:** **MR-C-1SS-DP-11-0-0.5**

Sample Date/Time: 06/27/2012 08:00 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21920-A-1-F ^10		480-71086	480-71009	07/03/2012 11:15	10	TAL BUF	JRK
A:7470A	480-21920-A-1-F ^10		480-71086	480-71009	07/03/2012 15:12	10	TAL BUF	JRK
P:7471A	480-21920-A-1-A ^20		480-70747	480-70616	06/29/2012 14:30	20	TAL BUF	JRK
A:7471A	480-21920-A-1-A ^20		480-70747	480-70616	06/29/2012 16:13	20	TAL BUF	JRK
A:Moisture	480-21920-A-1		480-70610		06/29/2012 13:39	1	TAL BUF	ZLR

Lab ID: **480-21920-1 MS** **Client ID:** **MR-C-1SS-DP-11-0-0.5**

Sample Date/Time: 06/27/2012 08:00 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21920-A-1-G MS ^10		480-71086	480-71009	07/03/2012 11:15	10	TAL BUF	JRK
A:7470A	480-21920-A-1-G MS ^10		480-71086	480-71009	07/03/2012 15:15	10	TAL BUF	JRK
P:7471A	480-21920-A-1-B MS ^20		480-70747	480-70616	06/29/2012 14:30	20	TAL BUF	JRK
A:7471A	480-21920-A-1-B MS ^20		480-70747	480-70616	06/29/2012 16:16	20	TAL BUF	JRK

Lab ID: **480-21920-1 MSD** **Client ID:** **MR-C-1SS-DP-11-0-0.5**

Sample Date/Time: 06/27/2012 08:00 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21920-A-1-H MSD ^10		480-71086	480-71009	07/03/2012 11:15	10	TAL BUF	JRK
A:7470A	480-21920-A-1-H MSD ^10		480-71086	480-71009	07/03/2012 15:17	10	TAL BUF	JRK
P:7471A	480-21920-A-1-C MSD ^20		480-70747	480-70616	06/29/2012 14:30	20	TAL BUF	JRK
A:7471A	480-21920-A-1-C MSD ^20		480-70747	480-70616	06/29/2012 16:17	20	TAL BUF	JRK

Lab ID: **480-21920-1 SD** **Client ID:** **MR-C-1SS-DP-11-0-0.5**

Sample Date/Time: 06/27/2012 08:00 Received Date/Time: 06/28/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21920-A-1-F SD ^50		480-71086	480-71009	07/03/2012 11:15	50	TAL BUF	JRK
A:7470A	480-21920-A-1-F SD ^50		480-71086	480-71009	07/03/2012 15:13	50	TAL BUF	JRK
P:7471A	480-21920-A-1-A SD ^100		480-70747	480-70616	06/29/2012 14:30	100	TAL BUF	JRK
A:7471A	480-21920-A-1-A SD ^100		480-70747	480-70616	06/29/2012 16:15	100	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-21920-1

Laboratory Chronicle

Lab ID: **480-21994-1** **Client ID:** **MR-SB-1SS-DP-12-2-2.5**

Sample Date/Time: 06/28/2012 08:00 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21994-A-1-C ^5		480-71607	480-71509	07/09/2012 07:00	5	TAL BUF	JRK
A:7470A	480-21994-A-1-C ^5		480-71607	480-71509	07/09/2012 12:17	5	TAL BUF	JRK
P:7471A	480-21994-A-1-A ^500		480-70747	480-70616	06/29/2012 14:30	500	TAL BUF	JRK
A:7471A	480-21994-A-1-A ^500		480-70747	480-70616	06/29/2012 16:41	500	TAL BUF	JRK
A:Moisture	480-21994-A-1		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Lab ID: **480-21994-1 MS** **Client ID:** **MR-SB-1SS-DP-12-2-2.5**

Sample Date/Time: 06/28/2012 08:00 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21994-A-1-D MS ^5		480-71607	480-71509	07/09/2012 07:00	5	TAL BUF	JRK
A:7470A	480-21994-A-1-D MS ^5		480-71607	480-71509	07/09/2012 12:20	5	TAL BUF	JRK

Lab ID: **480-21994-1 MSD** **Client ID:** **MR-SB-1SS-DP-12-2-2.5**

Sample Date/Time: 06/28/2012 08:00 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21994-A-1-E MSD ^5		480-71607	480-71509	07/09/2012 07:00	5	TAL BUF	JRK
A:7470A	480-21994-A-1-E MSD ^5		480-71607	480-71509	07/09/2012 12:22	5	TAL BUF	JRK

Lab ID: **480-21994-1 SD** **Client ID:** **MR-SB-1SS-DP-12-2-2.5**

Sample Date/Time: 06/28/2012 08:00 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21994-A-1-C SD ^25		480-71607	480-71509	07/09/2012 07:00	25	TAL BUF	JRK
A:7470A	480-21994-A-1-C SD ^25		480-71607	480-71509	07/09/2012 12:19	25	TAL BUF	JRK

Lab ID: **480-21994-2** **Client ID:** **MR-SB-1SS-DP-12-5-5.5**

Sample Date/Time: 06/28/2012 08:05 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-2-A		480-70747	480-70616	06/29/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21994-A-2-A		480-70747	480-70616	06/29/2012 16:22	1	TAL BUF	JRK
A:Moisture	480-21994-A-2		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Client: Brown and Caldwell

Job Number: 480-21920-1

Laboratory Chronicle

Lab ID: 480-21994-3 **Client ID:** MR-SB-1SS-DP-12-9-9.5

Sample Date/Time: 06/28/2012 08:10 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-3-A ^10		480-70747	480-70616	06/29/2012 14:30	10	TAL BUF	JRK
A:7471A	480-21994-A-3-A ^10		480-70747	480-70616	06/29/2012 16:23	10	TAL BUF	JRK
A:Moisture	480-21994-A-3		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Lab ID: 480-21994-4 **Client ID:** MR-SB-1SS-DP-12-20-20.5

Sample Date/Time: 06/28/2012 08:25 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-4-A		480-70747	480-70616	06/29/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21994-A-4-A		480-70747	480-70616	06/29/2012 16:28	1	TAL BUF	JRK
A:Moisture	480-21994-A-4		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Lab ID: 480-21994-5 **Client ID:** MR-SB-1SS-DP-12-32-32.5

Sample Date/Time: 06/28/2012 08:55 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-5-B ^5		480-70890	480-70803	07/02/2012 10:40	5	TAL BUF	JRK
A:7471A	480-21994-A-5-B ^5		480-70890	480-70803	07/02/2012 14:09	5	TAL BUF	JRK
A:Moisture	480-21994-A-5		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Lab ID: 480-21994-5 **Client ID:** MR-SB-1SS-DP-12-32-32.5

Sample Date/Time: 06/28/2012 08:55 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-5-C MS ^5		480-70890	480-70803	07/02/2012 10:40	5	TAL BUF	JRK
A:7471A	480-21994-A-5-C MS ^5		480-70890	480-70803	07/02/2012 14:11	5	TAL BUF	JRK
A:Moisture	480-21994-A-5 MS		480-70615		07/02/2012 11:40	1	TAL BUF	ZLR

Lab ID: 480-21994-5 **Client ID:** MR-SB-1SS-DP-12-32-32.5

Sample Date/Time: 06/28/2012 08:55 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-5-D MSD ^5		480-70890	480-70803	07/02/2012 10:40	5	TAL BUF	JRK
A:7471A	480-21994-A-5-D MSD ^5		480-70890	480-70803	07/02/2012 14:13	5	TAL BUF	JRK
A:Moisture	480-21994-A-5 MSD		480-70615		07/02/2012 11:40	1	TAL BUF	ZLR

Client: Brown and Caldwell

Job Number: 480-21920-1

Laboratory Chronicle

Lab ID: **480-21994-5 SD** **Client ID:** **MR-SB-1SS-DP-12-32-32.5**

Sample Date/Time: 06/28/2012 08:55 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-5-B SD ^25		480-70890	480-70803	07/02/2012 10:40	25	TAL BUF	JRK
A:7471A	480-21994-A-5-B SD ^25		480-70890	480-70803	07/02/2012 14:10	25	TAL BUF	JRK

Lab ID: **480-21994-6** **Client ID:** **MR-DUP-062812**

Sample Date/Time: 06/28/2012 00:00 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-6-A		480-70747	480-70616	06/29/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21994-A-6-A		480-70747	480-70616	06/29/2012 16:30	1	TAL BUF	JRK
A:Moisture	480-21994-A-6		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Lab ID: **480-21994-7** **Client ID:** **MR-SB-1SS-DP-12-44-44.5**

Sample Date/Time: 06/28/2012 09:15 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-7-A		480-70747	480-70616	06/29/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21994-A-7-A		480-70747	480-70616	06/29/2012 15:52	1	TAL BUF	JRK
A:Moisture	480-21994-A-7		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Lab ID: **480-21994-8** **Client ID:** **MR-SB-1SS-DP-12-52-52.5**

Sample Date/Time: 06/28/2012 13:10 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-8-A		480-70747	480-70616	06/29/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21994-A-8-A		480-70747	480-70616	06/29/2012 15:53	1	TAL BUF	JRK
A:Moisture	480-21994-A-8		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Lab ID: **480-21994-9** **Client ID:** **MR-SB-1SS-DP-12-62.5-63**

Sample Date/Time: 06/28/2012 13:40 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-9-A		480-70747	480-70616	06/29/2012 14:30	1	TAL BUF	JRK
A:7471A	480-21994-A-9-A		480-70747	480-70616	06/29/2012 15:55	1	TAL BUF	JRK
A:Moisture	480-21994-A-9		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Client: Brown and Caldwell

Job Number: 480-21920-1

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Lab ID: **480-21994-10** **Client ID:** **MR-FB-062812**

Sample Date/Time: 06/28/2012 15:00 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21994-A-10-A		480-70881	480-70768	07/02/2012 09:30	1	TAL BUF	JRK
A:7470A	480-21994-A-10-A		480-70881	480-70768	07/02/2012 13:50	1	TAL BUF	JRK

Lab ID: **480-21994-10 MS** **Client ID:** **MR-FB-062812**

Sample Date/Time: 06/28/2012 15:00 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21994-A-10-B MS		480-70881	480-70768	07/02/2012 09:30	1	TAL BUF	JRK
A:7470A	480-21994-A-10-B MS		480-70881	480-70768	07/02/2012 13:53	1	TAL BUF	JRK

Lab ID: **480-21994-10 MSD** **Client ID:** **MR-FB-062812**

Sample Date/Time: 06/28/2012 15:00 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21994-A-10-C MSD		480-70881	480-70768	07/02/2012 09:30	1	TAL BUF	JRK
A:7470A	480-21994-A-10-C MSD		480-70881	480-70768	07/02/2012 13:55	1	TAL BUF	JRK

Lab ID: **480-21994-10 SD** **Client ID:** **MR-FB-062812**

Sample Date/Time: 06/28/2012 15:00 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-21994-A-10-A SD		480-70881	480-70768	07/02/2012 09:30	1	TAL BUF	JRK
A:7470A	480-21994-A-10-A SD		480-70881	480-70768	07/02/2012 13:51	1	TAL BUF	JRK

Lab ID: **480-21994-11** **Client ID:** **MR-SB-1SS-DP-15-2-2.5**

Sample Date/Time: 06/28/2012 15:45 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-11-A ^20		480-70747	480-70616	06/29/2012 14:30	20	TAL BUF	JRK
A:7471A	480-21994-A-11-A ^20		480-70747	480-70616	06/29/2012 16:31	20	TAL BUF	JRK
A:Moisture	480-21994-A-11		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Client: Brown and Caldwell

Job Number: 480-21920-1

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Lab ID: 480-21994-12 **Client ID:** MR-SB-1SS-DP-15-4.5-5

Sample Date/Time: 06/28/2012 16:00 Received Date/Time: 06/29/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-21994-A-12-A ^5		480-70747	480-70616	06/29/2012 14:30	5	TAL BUF	JRK
A:7471A	480-21994-A-12-A ^5		480-70747	480-70616	06/29/2012 16:33	5	TAL BUF	JRK
A:Moisture	480-21994-A-12		480-70615		06/29/2012 13:57	1	TAL BUF	ZLR

Lab ID: 480-22000-1 **Client ID:** MR-SB-1SS-DP-12-5-5.5

Sample Date/Time: 06/28/2012 08:05 Received Date/Time: 06/29/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22000-A-1-B		480-71086	480-71008	07/03/2012 11:15	1	TAL BUF	JRK
A:7470A	480-22000-A-1-B		480-71086	480-71008	07/03/2012 14:37	1	TAL BUF	JRK

Lab ID: 480-22000-2 **Client ID:** MR-SB-1SS-DP-15-4.5-5

Sample Date/Time: 06/28/2012 16:00 Received Date/Time: 06/29/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22000-A-2-B		480-71086	480-71008	07/03/2012 11:15	1	TAL BUF	JRK
A:7470A	480-22000-A-2-B		480-71086	480-71008	07/03/2012 14:38	1	TAL BUF	JRK

Lab ID: 480-22003-1 **Client ID:** MR-C-1SS-DP-15-0-0.5

Sample Date/Time: 06/28/2012 15:15 Received Date/Time: 06/29/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22003-A-1-C		480-71086	480-71009	07/03/2012 11:15	1	TAL BUF	JRK
A:7470A	480-22003-A-1-C		480-71086	480-71009	07/03/2012 15:02	1	TAL BUF	JRK
P:7471A	480-22003-B-1-A		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	480-22003-B-1-A		480-70890	480-70803	07/02/2012 14:53	1	TAL BUF	JRK
A:Moisture	480-22003-A-1		480-71047		07/03/2012 12:00	1	TAL BUF	ZLR

Lab ID: 480-22066-1 **Client ID:** MR-SB-1SS-DP-15-8.5-9

Sample Date/Time: 06/29/2012 07:30 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-1-A		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	480-22066-A-1-A		480-70890	480-70803	07/02/2012 14:54	1	TAL BUF	JRK
A:Moisture	480-22066-A-1		480-70843		07/02/2012 12:43	1	TAL BUF	KK

Client: Brown and Caldwell

Job Number: 480-21920-1

Laboratory Chronicle

Lab ID: **480-22066-2** **Client ID:** **MR-SB-1SS-DP-15-20-20.5**

Sample Date/Time: 06/29/2012 07:45 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-2-A ^10		480-70890	480-70803	07/02/2012 10:40	10	TAL BUF	JRK
A:7471A	480-22066-A-2-A ^10		480-70890	480-70803	07/02/2012 14:22	10	TAL BUF	JRK
A:Moisture	480-22066-A-2		480-70843		07/02/2012 12:43	1	TAL BUF	KK

Lab ID: **480-22066-3** **Client ID:** **MR-SB-1SS-DP-15-28-28.5**

Sample Date/Time: 06/29/2012 08:00 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-3-A		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	480-22066-A-3-A		480-70890	480-70803	07/02/2012 14:56	1	TAL BUF	JRK
A:Moisture	480-22066-A-3		480-70843		07/02/2012 12:43	1	TAL BUF	KK

Lab ID: **480-22066-4** **Client ID:** **MR-SB-1SS-DP-15-36-36.5**

Sample Date/Time: 06/29/2012 08:10 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-4-A		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	480-22066-A-4-A		480-70890	480-70803	07/02/2012 14:57	1	TAL BUF	JRK
A:Moisture	480-22066-A-4		480-70843		07/02/2012 12:43	1	TAL BUF	KK

Lab ID: **480-22066-5** **Client ID:** **MR-DUP-062912**

Sample Date/Time: 06/29/2012 00:00 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-5-A		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	480-22066-A-5-A		480-70890	480-70803	07/02/2012 14:58	1	TAL BUF	JRK
A:Moisture	480-22066-A-5		480-70843		07/02/2012 12:43	1	TAL BUF	KK

Lab ID: **480-22066-6** **Client ID:** **MR-FB-062912**

Sample Date/Time: 06/29/2012 08:20 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22066-A-6-A		480-70881	480-70768	07/02/2012 09:30	1	TAL BUF	JRK
A:7470A	480-22066-A-6-A		480-70881	480-70768	07/02/2012 13:56	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-21920-1

Laboratory Chronicle

Lab ID: **480-22066-7** **Client ID:** **MW-SB-1SS-DP-15-44-44.5**

Sample Date/Time: 06/29/2012 08:25 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-7-A		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	480-22066-A-7-A		480-70890	480-70803	07/02/2012 14:59	1	TAL BUF	JRK
A:Moisture	480-22066-A-7		480-70843		07/02/2012 12:43	1	TAL BUF	KK

Lab ID: **480-22066-7** **Client ID:** **MW-SB-1SS-DP-15-44-44.5**

Sample Date/Time: 06/29/2012 08:25 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-7-B MS		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	480-22066-A-7-B MS		480-70890	480-70803	07/02/2012 15:02	1	TAL BUF	JRK
A:Moisture	480-22066-A-7 MS		480-70843		07/02/2012 12:43	1	TAL BUF	KK

Lab ID: **480-22066-7** **Client ID:** **MW-SB-1SS-DP-15-44-44.5**

Sample Date/Time: 06/29/2012 08:25 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-7-C MSD		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	480-22066-A-7-C MSD		480-70890	480-70803	07/02/2012 15:03	1	TAL BUF	JRK
A:Moisture	480-22066-A-7 MSD		480-70843		07/02/2012 12:43	1	TAL BUF	KK

Lab ID: **480-22066-7 SD** **Client ID:** **MW-SB-1SS-DP-15-44-44.5**

Sample Date/Time: 06/29/2012 08:25 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-7-A SD ^5		480-70890	480-70803	07/02/2012 10:40	5	TAL BUF	JRK
A:7471A	480-22066-A-7-A SD ^5		480-70890	480-70803	07/02/2012 15:01	5	TAL BUF	JRK

Lab ID: **480-22066-8** **Client ID:** **MW-SB-1SS-DP-15-60-60.5**

Sample Date/Time: 06/29/2012 09:00 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-8-A		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	480-22066-A-8-A		480-70890	480-70803	07/02/2012 15:04	1	TAL BUF	JRK
A:Moisture	480-22066-A-8		480-70843		07/02/2012 12:46	1	TAL BUF	KK

Client: Brown and Caldwell

Job Number: 480-21920-1

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Lab ID: **480-22066-9** **Client ID:** **MW-SB-1SS-DP-15-71.5-72**

Sample Date/Time: 06/29/2012 09:30 Received Date/Time: 06/30/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-22066-A-9-A		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	480-22066-A-9-A		480-70890	480-70803	07/02/2012 15:08	1	TAL BUF	JRK
A:Moisture	480-22066-A-9		480-70843		07/02/2012 12:46	1	TAL BUF	KK

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	MB 480-70768/1-A		480-70881	480-70768	07/02/2012 09:30	1	TAL BUF	JRK
A:7470A	MB 480-70768/1-A		480-70881	480-70768	07/02/2012 13:21	1	TAL BUF	JRK
P:7470A	MB 480-71008/2-A		480-71086	480-71008	07/03/2012 11:15	1	TAL BUF	JRK
A:7470A	MB 480-71008/2-A		480-71086	480-71008	07/03/2012 14:25	1	TAL BUF	JRK
P:7470A	MB 480-71009/2-A		480-71086	480-71009	07/03/2012 11:15	1	TAL BUF	JRK
A:7470A	MB 480-71009/2-A		480-71086	480-71009	07/03/2012 14:51	1	TAL BUF	JRK
P:7470A	MB 480-71509/2-A		480-71607	480-71509	07/09/2012 07:00	1	TAL BUF	JRK
A:7470A	MB 480-71509/2-A		480-71607	480-71509	07/09/2012 11:47	1	TAL BUF	JRK
P:7471A	MB 480-70616/1-A		480-70747	480-70616	06/29/2012 14:30	1	TAL BUF	JRK
A:7471A	MB 480-70616/1-A		480-70747	480-70616	06/29/2012 15:25	1	TAL BUF	JRK
P:7471A	MB 480-70803/1-A		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	MB 480-70803/1-A		480-70890	480-70803	07/02/2012 14:07	1	TAL BUF	JRK

Lab ID: **LB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LB 480-70772/1-C		480-71086	480-71008	07/03/2012 11:15	1	TAL BUF	JRK
A:7470A	LB 480-70772/1-C		480-71086	480-71008	07/03/2012 14:20	1	TAL BUF	JRK
P:7470A	LB 480-71376/1-B		480-71607	480-71509	07/09/2012 07:00	1	TAL BUF	JRK
A:7470A	LB 480-71376/1-B		480-71607	480-71509	07/09/2012 11:45	1	TAL BUF	JRK

Lab ID: **LB2** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LB2 480-70957/3-B		480-71086	480-71009	07/03/2012 11:15	1	TAL BUF	JRK
A:7470A	LB2 480-70957/3-B		480-71086	480-71009	07/03/2012 14:49	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-21920-1

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LCS 480-70768/2-A		480-70881	480-70768	07/02/2012 09:30	1	TAL BUF	JRK
A:7470A	LCS 480-70768/2-A		480-70881	480-70768	07/02/2012 13:22	1	TAL BUF	JRK
P:7470A	LCS 480-71008/3-A		480-71086	480-71008	07/03/2012 11:15	1	TAL BUF	JRK
A:7470A	LCS 480-71008/3-A		480-71086	480-71008	07/03/2012 14:27	1	TAL BUF	JRK
P:7470A	LCS 480-71009/3-A		480-71086	480-71009	07/03/2012 11:15	1	TAL BUF	JRK
A:7470A	LCS 480-71009/3-A		480-71086	480-71009	07/03/2012 14:53	1	TAL BUF	JRK
P:7470A	LCS 480-71509/3-A		480-71607	480-71509	07/09/2012 07:00	1	TAL BUF	JRK
A:7470A	LCS 480-71509/3-A		480-71607	480-71509	07/09/2012 11:49	1	TAL BUF	JRK

Lab ID: **LCSSRM** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	LCSSRM 480-70616/2-A		480-70747	480-70616	06/29/2012 14:30	1	TAL BUF	JRK
A:7471A	LCSSRM 480-70616/2-A		480-70747	480-70616	06/29/2012 15:26	1	TAL BUF	JRK
P:7471A	LCSSRM 480-70803/2-A		480-70890	480-70803	07/02/2012 10:40	1	TAL BUF	JRK
A:7471A	LCSSRM 480-70803/2-A		480-70890	480-70803	07/02/2012 14:08	1	TAL BUF	JRK

Lab References:

TAL BUF = TestAmerica Buffalo

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21920-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-C-1SS-DP-11-0-0.5	480-21920-1
MR-SB-1SS-DP-12-2-2.5	480-21994-1
MR-SB-1SS-DP-12-5-5.5	480-21994-2
MR-SB-1SS-DP-12-9-9.5	480-21994-3
MR-SB-1SS-DP-12-20-20.5	480-21994-4
MR-SB-1SS-DP-12-32-32.5	480-21994-5
MR-DUP-062812	480-21994-6
MR-SB-1SS-DP-12-44-44.5	480-21994-7
MR-SB-1SS-DP-12-52-52.5	480-21994-8
MR-SB-1SS-DP-12-62.5-63	480-21994-9
MR-FB-062812	480-21994-10
MR-SB-1SS-DP-15-2-2.5	480-21994-11
MR-SB-1SS-DP-15-4.5-5	480-21994-12
MR-SB-1SS-DP-12-5-5.5	480-22000-1
MR-SB-1SS-DP-15-4.5-5	480-22000-2
MR-C-1SS-DP-15-0-0.5	480-22003-1
MR-SB-1SS-DP-15-8.5-9	480-22066-1
MR-SB-1SS-DP-15-20-20.5	480-22066-2
MR-SB-1SS-DP-15-28-28.5	480-22066-3
MR-SB-1SS-DP-15-36-36.5	480-22066-4
MR-DUP-062912	480-22066-5
MR-FB-062912	480-22066-6
MW-SB-1SS-DP-15-44-44.5	480-22066-7
MW-SB-1SS-DP-15-60-60.5	480-22066-8
MW-SB-1SS-DP-15-71.5-72	480-22066-9

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-C-1SS-DP-11-0-0.5
Lab Sample ID: 480-21920-1
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 08:00
Reporting Basis: DRY
Date Received: 06/28/2012 09:00
% Solids: 96.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	5.3	0.42	0.17	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MR-C-1SS-DP-11-0-0.5
Lab Sample ID: 480-21920-1
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/27/2012 08:00
Reporting Basis: WET
Date Received: 06/28/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.028	0.0020	0.0012	mg/L			10	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-12-2-2.5

Lab Sample ID: 480-21994-1

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/28/2012 08:00

Reporting Basis: DRY

Date Received: 06/29/2012 09:30

% Solids: 96.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	134	10.6	4.3	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MR-SB-1SS-DP-12-2-2.5
Lab Sample ID: 480-21994-1
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/28/2012 08:00
Reporting Basis: WET
Date Received: 06/29/2012 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.030	0.0010	0.00060	mg/L		B	5	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-12-5-5.5

Lab Sample ID: 480-21994-2

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/28/2012 08:05

Reporting Basis: DRY

Date Received: 06/29/2012 09:30

% Solids: 86.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.092	0.023	0.0094	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-12-9-9.5

Lab Sample ID: 480-21994-3

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/28/2012 08:10

Reporting Basis: DRY

Date Received: 06/29/2012 09:30

% Solids: 74.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	3.3	0.25	0.10	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-12-20-20.5
Lab Sample ID: 480-21994-4
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/28/2012 08:25
Reporting Basis: DRY
Date Received: 06/29/2012 09:30
% Solids: 79.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.023	0.0095	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-12-32-32.5

Lab Sample ID: 480-21994-5

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/28/2012 08:55

Reporting Basis: DRY

Date Received: 06/29/2012 09:30

% Solids: 78.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.96	0.13	0.051	mg/Kg			5	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-DUP-062812
Lab Sample ID: 480-21994-6
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/28/2012 00:00
Reporting Basis: DRY
Date Received: 06/29/2012 09:30
% Solids: 76.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.026	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-12-44-44.5

Lab Sample ID: 480-21994-7

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/28/2012 09:15

Reporting Basis: DRY

Date Received: 06/29/2012 09:30

% Solids: 79.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.28	0.025	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-12-52-52.5

Lab Sample ID: 480-21994-8

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/28/2012 13:10

Reporting Basis: DRY

Date Received: 06/29/2012 09:30

% Solids: 75.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.032	0.025	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-12-62.5-63

Lab Sample ID: 480-21994-9

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/28/2012 13:40

Reporting Basis: DRY

Date Received: 06/29/2012 09:30

% Solids: 83.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.022	0.0088	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-FB-062812
Lab Sample ID: 480-21994-10
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Water
Date Sampled: 06/28/2012 15:00
Reporting Basis: WET
Date Received: 06/29/2012 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-15-2-2.5

Lab Sample ID: 480-21994-11

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/28/2012 15:45

Reporting Basis: DRY

Date Received: 06/29/2012 09:30

% Solids: 96.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	3.2	0.42	0.17	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-15-4.5-5

Lab Sample ID: 480-21994-12

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/28/2012 16:00

Reporting Basis: DRY

Date Received: 06/29/2012 09:30

% Solids: 82.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	1.2	0.12	0.047	mg/Kg			5	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MR-SB-1SS-DP-12-5-5.5
Lab Sample ID: 480-22000-1
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/28/2012 08:05
Reporting Basis: WET
Date Received: 06/29/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MR-SB-1SS-DP-15-4.5-5
Lab Sample ID: 480-22000-2
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/28/2012 16:00
Reporting Basis: WET
Date Received: 06/29/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-C-1SS-DP-15-0-0.5

Lab Sample ID: 480-22003-1

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/28/2012 15:15

Reporting Basis: DRY

Date Received: 06/29/2012 09:00

% Solids: 93.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.16	0.020	0.0081	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MR-C-1SS-DP-15-0-0.5
Lab Sample ID: 480-22003-1
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/28/2012 15:15
Reporting Basis: WET
Date Received: 06/29/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00038	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-15-8.5-9

Lab Sample ID: 480-22066-1

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/29/2012 07:30

Reporting Basis: DRY

Date Received: 06/30/2012 09:00

% Solids: 80.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.024	0.0098	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-15-20-20.5
Lab Sample ID: 480-22066-2
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/29/2012 07:45
Reporting Basis: DRY
Date Received: 06/30/2012 09:00
% Solids: 72.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	1.8	0.25	0.10	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-15-28-28.5

Lab Sample ID: 480-22066-3

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/29/2012 08:00

Reporting Basis: DRY

Date Received: 06/30/2012 09:00

% Solids: 75.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.024	0.0098	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SB-1SS-DP-15-36-36.5
Lab Sample ID: 480-22066-4
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/29/2012 08:10
Reporting Basis: DRY
Date Received: 06/30/2012 09:00
% Solids: 77.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.023	0.0095	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-DUP-062912
Lab Sample ID: 480-22066-5
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG ID.:
Matrix: Solid
Date Sampled: 06/29/2012 00:00
Reporting Basis: DRY
Date Received: 06/30/2012 09:00
% Solids: 79.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.026	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-FB-062912

Lab Sample ID: 480-22066-6

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Water

Date Sampled: 06/29/2012 08:20

Reporting Basis: WET

Date Received: 06/30/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-SB-1SS-DP-15-44-44.5

Lab Sample ID: 480-22066-7

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/29/2012 08:25

Reporting Basis: DRY

Date Received: 06/30/2012 09:00

% Solids: 78.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.026	0.010	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-SB-1SS-DP-15-60-60.5

Lab Sample ID: 480-22066-8

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/29/2012 09:00

Reporting Basis: DRY

Date Received: 06/30/2012 09:00

% Solids: 73.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.027	0.011	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-SB-1SS-DP-15-71.5-72

Lab Sample ID: 480-22066-9

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG ID.:

Matrix: Solid

Date Sampled: 06/29/2012 09:30

Reporting Basis: DRY

Date Received: 06/30/2012 09:00

% Solids: 85.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.024	0.0096	mg/Kg			1	7471A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

ICV Source: MEH_HG2_WKG_00126 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00126

Analyte	ICV 480-70881/1 07/02/2012 13:13				CCV 480-70881/4 07/02/2012 13:17				CCV 480-70881/16 07/02/2012 13:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00303		0.00300	101	0.00206		0.00200	103	0.00204		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

ICV Source: MEH_HG2_WKG_00126 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00126

Analyte	CCV 480-70881/28 07/02/2012 13:58											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00203		0.00200	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

ICV Source: MEH_HG2_WKG_00127 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00127

Analyte	ICV 480-71086/1 07/03/2012 13:56				CCV 480-71086/4 07/03/2012 14:01				CCV 480-71086/16 07/03/2012 14:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00303		0.00300	101	0.00205		0.00200	103	0.00206		0.00200	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

ICV Source: MEH_HG2_WKG_00127 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00127

Analyte	CCV 480-71086/28 07/03/2012 14:42				CCV 480-71086/40 07/03/2012 15:03				CCV 480-71086/47 07/03/2012 15:21			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00207		0.00200	104	0.00206		0.00200	103	0.00204		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

ICV Source: MEH_HG2_WKG_00131 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00131

Analyte	ICV 480-71607/1 07/09/2012 11:37				CCV 480-71607/4 07/09/2012 11:42				CCV 480-71607/13 07/09/2012 11:58			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00310		0.00300	103	0.00207		0.00200	104	0.00200		0.00200	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

ICV Source: MEH_HG2_WKG_00131 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00131

Analyte	CCV 480-71607/15 07/09/2012 12:14				CCV 480-71607/21 07/09/2012 12:24							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00204		0.00200	102	0.00202		0.00200	101				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

ICV Source: MEH_HG2_WKG_00125 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00125

Analyte	ICV 480-70747/1 06/29/2012 15:18				CCV 480-70747/4 06/29/2012 15:22				CCV 480-70747/16 06/29/2012 15:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00307		0.00300	102	0.00207		0.00200	104	0.00192		0.00200	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

ICV Source: MEH_HG2_WKG_00125 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00125

Analyte	CCV 480-70747/28 06/29/2012 15:56				CCV 480-70747/40 06/29/2012 16:25				CCV 480-70747/48 06/29/2012 16:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00202		0.00200	101	0.00201		0.00200	101	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

ICV Source: MEH_HG2_WKG_00126 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00126

Analyte	ICV 480-70890/1 07/02/2012 14:01				CCV 480-70890/4 07/02/2012 14:04				CCV 480-70890/16 07/02/2012 14:19			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00297		0.00300	99	0.00204		0.00200	102	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

ICV Source: MEH_HG2_WKG_00126 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00126

Analyte	CCV 480-70890/28 07/02/2012 14:49				CCV 480-70890/41 07/02/2012 15:05				CCV 480-70890/44 07/02/2012 15:10			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00202		0.00200	101	0.00204		0.00200	102	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN2

Lab Sample ID: CRA 480-70881/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00126

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		79	50-150

Lab Sample ID: CRA 480-71086/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00127

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.000200	ND		83	50-150

Lab Sample ID: CRA 480-71607/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00131

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.000200	0.000213		107	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Method: 7471A Instrument ID: LEEMAN3

Lab Sample ID: CRA 480-70747/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00125

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	0.000221		111	50-150

Lab Sample ID: CRA 480-70890/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00126

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		94	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-70881/2 07/02/2012 13:14		CCB 480-70881/5 07/02/2012 13:19		CCB 480-70881/17 07/02/2012 13:39		CCB 480-70881/29 07/02/2012 14:00	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-71086/2 07/03/2012 13:58		CCB 480-71086/5 07/03/2012 14:03		CCB 480-71086/17 07/03/2012 14:23		CCB 480-71086/29 07/03/2012 14:44	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-71086/41 07/03/2012 15:05		CCB 480-71086/48 07/03/2012 15:22					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-71607/2 07/09/2012 11:39		CCB 480-71607/5 07/09/2012 11:44		CCB 480-71607/14 07/09/2012 11:59		CCB 480-71607/16 07/09/2012 12:15	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-71607/22 07/09/2012 12:26							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-70747/2 06/29/2012 15:19		CCB 480-70747/5 06/29/2012 15:24		CCB 480-70747/17 06/29/2012 15:40		CCB 480-70747/29 06/29/2012 15:57	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-70747/41 06/29/2012 16:26		CCB 480-70747/49 06/29/2012 16:44					
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-70890/2 07/02/2012 14:02		CCB 480-70890/5 07/02/2012 14:05		CCB 480-70890/17 07/02/2012 14:20		CCB 480-70890/29 07/02/2012 14:50	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-70890/42 07/02/2012 15:07		CCB 480-70890/45 07/02/2012 15:11					
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-70768/1-A

Instrument Code: LEEMAN2 Batch No.: 70881

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-71008/2-A

Instrument Code: LEEMAN2 Batch No.: 71086

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-71009/2-A

Instrument Code: LEEMAN2 Batch No.: 71086

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB 480-70772/1-C

Instrument Code: LEEMAN2 Batch No.: 71086

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB2 480-70957/3-B

Instrument Code: LEEMAN2 Batch No.: 71086

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-71509/2-A

Instrument Code: LEEMAN2 Batch No.: 71607

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB 480-71376/1-B

Instrument Code: LEEMAN2 Batch No.: 71607

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.00138			7470A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-70616/1-A

Instrument Code: LEEMAN3 Batch No.: 70747

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7471A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-70803/1-A

Instrument Code: LEEMAN3 Batch No.: 70890

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7471A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MR-C-1SS-DP-11-0-0.5 MS
Lab ID: 480-21920-1 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 96.7

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Total	9.11		5.3		0.345	1090	75-125	4	7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: MR-C-1SS-DP-11-0-0.5 MS

Lab ID: 480-21920-1 MS

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG No.:

Matrix: Solid

Concentration Units: mg/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.0360		0.028		0.00668	117	75-125	4	7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: MR-SB-1SS-DP-12-2-2.5 MS

Lab ID: 480-21994-1 MS

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG No.:

Matrix: Solid

Concentration Units: mg/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.0340		0.030		0.00668	59	75-125	4	7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MR-SB-1SS-DP-12-32-32.5 MS
Lab ID: 480-21994-5 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 78.9

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Total	1.64		0.96		0.402	168	75-125	F	7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MR-FB-062812 MS

Lab ID: 480-21994-10 MS

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Total	6.73		ND		6.67	101	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-SB-1SS-DP-15-44-44.5 MS
Lab ID: 480-22066-7 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-21920-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 78.0

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Total	0.390		ND						7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MR-C-1SS-DP-11-0-0.5 MSD

Lab ID: 480-21920-1 MSD

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 96.7

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Total	6.17		0.350	236	75-125	38	20	4 F	7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TCLP

Client ID: MR-C-1SS-DP-11-0-0.5 MSD

Lab ID: 480-21920-1 MSD

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG No.:

Matrix: Solid

Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.0370		0.00668	132	75-125	3	20	4	7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TCLP

Client ID: MR-SB-1SS-DP-12-2-2.5 MSD

Lab ID: 480-21994-1 MSD

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG No.:

Matrix: Solid

Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.0358		0.00668	85	75-125	5	20	4	7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MR-SB-1SS-DP-12-32-32.5 MSD

Lab ID: 480-21994-5 MSD

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 78.9

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Total	1.51		0.388	141	75-125	8	20	F	7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MR-FB-062812 MSD

Lab ID: 480-21994-10 MSD

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Total	6.60		6.67	99	75-125	2	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MW-SB-1SS-DP-15-44-44.5 MSD

Lab ID: 480-22066-7 MSD

Lab Name: TestAmerica Buffalo

Job No.: 480-21920-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 78.0

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Total	0.403								7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-70768/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00126

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.87		103	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-71008/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

Sample Matrix: Water LCS Source: MEH_HG_TCLP_W_00020

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00668	0.00658		99	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-71009/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

Sample Matrix: Water LCS Source: MEH_HG_TCLP_W_00020

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00668	0.00663		99	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-71509/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

Sample Matrix: Water LCS Source: MEH_HG_TCLP_W_00020

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00668	0.00732		110	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-70616/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

Sample Matrix: Solid LCS Source: MEH_SRM_D071_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	3.77	3.72		98.8	71.6	128.4		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-70803/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

Sample Matrix: Solid LCS Source: MEH_SRM_D071_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	3.77	3.69		97.8	71.6	128.4		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-21920-1

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-21920-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Total	5.3		5.14		3.8		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Lab ID: 480-21920-1

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-21920-1

Matrix: Solid Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.028		0.0254		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Lab ID: 480-21994-1

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-21920-1

Matrix: Solid Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.030		0.0308		2.2		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-21994-5

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-21920-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Total	0.96		0.826		NC		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-21994-10

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-21920-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Total	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-22066-7

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-21920-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Total	ND		ND		NC		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21920-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21920-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Buffalo Job Number: 480-21920-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.00012

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Buffalo Job Number: 480-21920-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21920-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN3

Method: 7471A MDL Date: 01/29/2010 00:00

Prep Method: 7471A

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury, Total	253.7	0.02	0.0081

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-21920-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN3

Method: 7471A XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-21920-1

SDG No.:

Instrument ID: LEEMAN2 Date: 03/20/2012 10:04

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7470A
Mercury, Total	10	10	7470A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-21920-1

SDG No.:

Instrument ID: LEEMAN3 Date: 03/20/2012 10:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Total	10	10	7471A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-70616/1-A	06/29/2012 14:30	70616	+0.5980		50
LCSSRM 480-70616/2-A	06/29/2012 14:30	70616	+0.0529		50
480-21920-1	06/29/2012 14:30	70616	+0.5878		50
480-21920-1 MS	06/29/2012 14:30	70616	+0.5993		50
480-21920-1 MSD	06/29/2012 14:30	70616	+0.5913		50
480-21994-1	06/29/2012 14:30	70616	+0.5892		50
480-21994-2	06/29/2012 14:30	70616	+0.5980		50
480-21994-3	06/29/2012 14:30	70616	+0.6382		50
480-21994-4	06/29/2012 14:30	70616	+0.6488		50
480-21994-6	06/29/2012 14:30	70616	+0.6073		50
480-21994-7	06/29/2012 14:30	70616	+0.6058		50
480-21994-8	06/29/2012 14:30	70616	+0.6321		50
480-21994-9	06/29/2012 14:30	70616	+0.6605		50
480-21994-11	06/29/2012 14:30	70616	+0.5902		50
480-21994-12	06/29/2012 14:30	70616	+0.6315		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-70768/1-A	07/02/2012 09:30	70768		30	50
LCS 480-70768/2-A	07/02/2012 09:30	70768		30	50
480-21994-10	07/02/2012 09:30	70768		30	50
480-21994-10 MS	07/02/2012 09:30	70768		30	50
480-21994-10 MSD	07/02/2012 09:30	70768		30	50
480-22066-6	07/02/2012 09:30	70768		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-70803/1-A	07/02/2012 10:40	70803	+0.5988		50
LCSSRM 480-70803/2-A	07/02/2012 10:40	70803	+0.0530		50
480-21994-5	07/02/2012 10:40	70803	+0.6002		50
480-21994-5 MS	07/02/2012 10:40	70803	+0.6311		50
480-21994-5 MSD	07/02/2012 10:40	70803	+0.6542		50
480-22003-1	07/02/2012 10:40	70803	+0.6385		50
480-22066-1	07/02/2012 10:40	70803	+0.6180		50
480-22066-2	07/02/2012 10:40	70803	+0.6655		50
480-22066-3	07/02/2012 10:40	70803	+0.6515		50
480-22066-4	07/02/2012 10:40	70803	+0.6586		50
480-22066-5	07/02/2012 10:40	70803	+0.5944		50
480-22066-7	07/02/2012 10:40	70803	+0.5959		50
480-22066-7 MS	07/02/2012 10:40	70803	+0.6337		50
480-22066-7 MSD	07/02/2012 10:40	70803	+0.6100		50
480-22066-8	07/02/2012 10:40	70803	+0.6037		50
480-22066-9	07/02/2012 10:40	70803	+0.5934		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB 480-70772/1-C	07/03/2012 11:15	71008		30	50
MB 480-71008/2-A	07/03/2012 11:15	71008		30	50
LCS 480-71008/3-A	07/03/2012 11:15	71008		30	50
480-22000-1	07/03/2012 11:15	71008		30	50
480-22000-2	07/03/2012 11:15	71008		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB2 480-70957/3-B	07/03/2012 11:15	71009		30	50
MB 480-71009/2-A	07/03/2012 11:15	71009		30	50
LCS 480-71009/3-A	07/03/2012 11:15	71009		30	50
480-21920-1	07/03/2012 11:15	71009		30	50
480-21920-1 MS	07/03/2012 11:15	71009		30	50
480-21920-1 MSD	07/03/2012 11:15	71009		30	50
480-22003-1	07/03/2012 11:15	71009		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB 480-71376/1-B	07/09/2012 07:00	71509		30	50
MB 480-71509/2-A	07/09/2012 07:00	71509		30	50
LCS 480-71509/3-A	07/09/2012 07:00	71509		30	50
480-21994-1	07/09/2012 07:00	71509		30	50
480-21994-1 MS	07/09/2012 07:00	71509		30	50
480-21994-1 MSD	07/09/2012 07:00	71509		30	50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/02/2012 13:13 End Date: 07/02/2012 14:51

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-70881/1	1		13:13	X																			
ICB 480-70881/2	1		13:14	X																			
CRA 480-70881/3	1		13:16	X																			
CCV 480-70881/4	1		13:17	X																			
CCB 480-70881/5	1		13:19	X																			
MB 480-70768/1-A	1	T	13:21	X																			
LCS 480-70768/2-A	1	T	13:22	X																			
ZZZZZZ			13:24																				
ZZZZZZ			13:26																				
ZZZZZZ			13:27																				
ZZZZZZ			13:29																				
ZZZZZZ			13:31																				
ZZZZZZ			13:32																				
ZZZZZZ			13:34																				
ZZZZZZ			13:36																				
CCV 480-70881/16	1		13:38	X																			
CCB 480-70881/17	1		13:39	X																			
ZZZZZZ			13:41																				
ZZZZZZ			13:43																				
ZZZZZZ			13:44																				
ZZZZZZ			13:46																				
ZZZZZZ			13:48																				
480-21994-10	1	T	13:50	X																			
480-21994-10 SD	1	T	13:51	X																			
480-21994-10 MS	1	T	13:53	X																			
480-21994-10 MSD	1	T	13:55	X																			
480-22066-6	1	T	13:56	X																			
CCV 480-70881/28	1		13:58	X																			
CCB 480-70881/29	1		14:00	X																			
ZZZZZZ			14:01																				
ZZZZZZ			14:03																				
ZZZZZZ			14:05																				
ZZZZZZ			14:07																				
ZZZZZZ			14:08																				
ZZZZZZ			14:10																				
ZZZZZZ			14:12																				
ZZZZZZ			14:14																				
ZZZZZZ			14:16																				
ZZZZZZ			14:17																				
CCV 480-70881/40			14:19																				
CCB 480-70881/41			14:21																				
ZZZZZZ			14:23																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/02/2012 13:13 End Date: 07/02/2012 14:51

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:24																				
ZZZZZZ			14:26																				
ZZZZZZ			14:28																				
ZZZZZZ			14:30																				
ZZZZZZ			14:31																				
ZZZZZZ			14:33																				
ZZZZZZ			14:35																				
ZZZZZZ			14:36																				
ZZZZZZ			14:38																				
CCV 480-70881/52			14:39																				
CCB 480-70881/53			14:41																				
ZZZZZZ			14:43																				
ZZZZZZ			14:44																				
ZZZZZZ			14:46																				
CRA 480-70881/57			14:48																				
CCV 480-70881/58			14:49																				
CCB 480-70881/59			14:51																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/03/2012 13:56 End Date: 07/03/2012 15:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-71086/1	1		13:56	X																			
ICB 480-71086/2	1		13:58	X																			
CRA 480-71086/3	1		13:59	X																			
CCV 480-71086/4	1		14:01	X																			
CCB 480-71086/5	1		14:03	X																			
ZZZZZZ			14:04																				
ZZZZZZ			14:06																				
ZZZZZZ			14:08																				
ZZZZZZ			14:10																				
ZZZZZZ			14:11																				
ZZZZZZ			14:13																				
ZZZZZZ			14:15																				
ZZZZZZ			14:17																				
ZZZZZZ			14:18																				
LB 480-70772/1-C	1	P	14:20	X																			
CCV 480-71086/16	1		14:22	X																			
CCB 480-71086/17	1		14:23	X																			
MB 480-71008/2-A	1	T	14:25	X																			
LCS 480-71008/3-A	1	T	14:27	X																			
ZZZZZZ			14:29																				
ZZZZZZ			14:30																				
ZZZZZZ			14:32																				
ZZZZZZ			14:34																				
ZZZZZZ			14:35																				
480-22000-1	1	P	14:37	X																			
480-22000-2	1	P	14:38	X																			
ZZZZZZ			14:40																				
CCV 480-71086/28	1		14:42	X																			
CCB 480-71086/29	1		14:44	X																			
ZZZZZZ			14:46																				
ZZZZZZ			14:48																				
LB2 480-70957/3-B	1	P	14:49	X																			
MB 480-71009/2-A	1	T	14:51	X																			
LCS 480-71009/3-A	1	T	14:53	X																			
ZZZZZZ			14:55																				
ZZZZZZ			14:57																				
ZZZZZZ			14:58																				
ZZZZZZ			15:00																				
480-22003-1	1	P	15:02	X																			
CCV 480-71086/40	1		15:03	X																			
CCB 480-71086/41	1		15:05	X																			
480-21920-1	10	P	15:12	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/03/2012 13:56 End Date: 07/03/2012 15:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
480-21920-1 SD	50	P	15:13	X																			
480-21920-1 MS	10	P	15:15	X																			
480-21920-1 MSD	10	P	15:17	X																			
ZZZZZZ			15:18																				
CCV 480-71086/47	1		15:21	X																			
CCB 480-71086/48	1		15:22	X																			

Prep Types

P = TCLP

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/09/2012 11:37 End Date: 07/09/2012 12:26

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-71607/1	1		11:37	X																			
ICB 480-71607/2	1		11:39	X																			
CRA 480-71607/3	1		11:40	X																			
CCV 480-71607/4	1		11:42	X																			
CCB 480-71607/5	1		11:44	X																			
LB 480-71376/1-B	1	P	11:45	X																			
MB 480-71509/2-A	1	T	11:47	X																			
LCS 480-71509/3-A	1	T	11:49	X																			
ZZZZZZ			11:51																				
ZZZZZZ			11:52																				
ZZZZZZ			11:54																				
ZZZZZZ			11:56																				
CCV 480-71607/13	1		11:58	X																			
CCB 480-71607/14	1		11:59	X																			
CCV 480-71607/15	1		12:14	X																			
CCB 480-71607/16	1		12:15	X																			
480-21994-1	5	P	12:17	X																			
480-21994-1 SD	25	P	12:19	X																			
480-21994-1 MS	5	P	12:20	X																			
480-21994-1 MSD	5	P	12:22	X																			
CCV 480-71607/21	1		12:24	X																			
CCB 480-71607/22	1		12:26	X																			

Prep Types

P = TCLP

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 06/29/2012 15:18 End Date: 06/29/2012 16:44

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-70747/1	1		15:18	X																			
ICB 480-70747/2	1		15:19	X																			
CRA 480-70747/3	1		15:20	X																			
CCV 480-70747/4	1		15:22	X																			
CCB 480-70747/5	1		15:24	X																			
MB 480-70616/1-A	1	T	15:25	X																			
LCSSRM 480-70616/2-A	1	T	15:26	X																			
ZZZZZZ			15:28																				
ZZZZZZ			15:29																				
ZZZZZZ			15:30																				
ZZZZZZ			15:32																				
ZZZZZZ			15:33																				
ZZZZZZ			15:35																				
ZZZZZZ			15:36																				
ZZZZZZ			15:38																				
CCV 480-70747/16	1		15:39	X																			
CCB 480-70747/17	1		15:40	X																			
ZZZZZZ			15:41																				
ZZZZZZ			15:44																				
ZZZZZZ			15:45																				
ZZZZZZ			15:47																				
ZZZZZZ			15:48																				
ZZZZZZ			15:50																				
ZZZZZZ			15:51																				
480-21994-7	1	T	15:52	X																			
480-21994-8	1	T	15:53	X																			
480-21994-9	1	T	15:55	X																			
CCV 480-70747/28	1		15:56	X																			
CCB 480-70747/29	1		15:57	X																			
ZZZZZZ			15:58																				
ZZZZZZ			15:59																				
480-21920-1	20	T	16:13	X																			
480-21920-1 SD	100	T	16:15	X																			
480-21920-1 MS	20	T	16:16	X																			
480-21920-1 MSD	20	T	16:17	X																			
ZZZZZZ			16:19																				
ZZZZZZ			16:21																				
480-21994-2	1	T	16:22	X																			
480-21994-3	10	T	16:23	X																			
CCV 480-70747/40	1		16:25	X																			
CCB 480-70747/41	1		16:26	X																			
480-21994-4	1	T	16:28	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 06/29/2012 15:18 End Date: 06/29/2012 16:44

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:29																				
480-21994-6	1	T	16:30	X																			
480-21994-11	20	T	16:31	X																			
480-21994-12	5	T	16:33	X																			
480-21994-1	500	T	16:41	X																			
CCV 480-70747/48	1		16:43	X																			
CCB 480-70747/49	1		16:44	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 07/02/2012 14:01 End Date: 07/02/2012 15:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-70890/1	1		14:01	X																			
ICB 480-70890/2	1		14:02	X																			
CRA 480-70890/3	1		14:03	X																			
CCV 480-70890/4	1		14:04	X																			
CCB 480-70890/5	1		14:05	X																			
MB 480-70803/1-A	1	T	14:07	X																			
LCSSRM 480-70803/2-A	1	T	14:08	X																			
480-21994-5	5	T	14:09	X																			
480-21994-5 SD	25	T	14:10	X																			
480-21994-5 MS	5	T	14:11	X																			
480-21994-5 MSD	5	T	14:13	X																			
ZZZZZZ			14:14																				
ZZZZZZ			14:15																				
ZZZZZZ			14:16																				
ZZZZZZ			14:17																				
CCV 480-70890/16	1		14:19	X																			
CCB 480-70890/17	1		14:20	X																			
ZZZZZZ			14:21																				
480-22066-2	10	T	14:22	X																			
ZZZZZZ			14:23																				
ZZZZZZ			14:25																				
ZZZZZZ			14:26																				
ZZZZZZ			14:27																				
ZZZZZZ			14:28																				
ZZZZZZ			14:30																				
ZZZZZZ			14:40																				
ZZZZZZ			14:41																				
CCV 480-70890/28	1		14:49	X																			
CCB 480-70890/29	1		14:50	X																			
ZZZZZZ			14:52																				
480-22003-1	1	T	14:53	X																			
480-22066-1	1	T	14:54	X																			
480-22066-3	1	T	14:56	X																			
480-22066-4	1	T	14:57	X																			
480-22066-5	1	T	14:58	X																			
480-22066-7	1	T	14:59	X																			
480-22066-7 SD	5	T	15:01	X																			
480-22066-7 MS	1	T	15:02	X																			
480-22066-7 MSD	1	T	15:03	X																			
480-22066-8	1	T	15:04	X																			
CCV 480-70890/41	1		15:05	X																			
CCB 480-70890/42	1		15:07	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 07/02/2012 14:01 End Date: 07/02/2012 15:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
480-22066-9	1	T	15:08	X																			
CCV 480-70890/44	1		15:10	X																			
CCB 480-70890/45	1		15:11	X																			

Prep Types
T = Total/NA

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧

Protocol hgppb

Dataset/Proto H07022W1/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.78124e-5

C -5.67821e-2

rho .999864

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs.
561060

Accepted

New

Conc. 10.0

Include S7 Rep 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.046	-.046	615	170	463	797	582
02	.20000	.167	-.033	12586	1.34%	12584	12756	12418
03	1.0000	1.00	.003	59488	0.14%	59570	59486	59408
04	2.0000	2.03	.027	116964	0.5%	117541	116981	116371
05	5.0000	5.11	.112	290176	0.3%	290785	290566	289180
06	10.000	9.94	-.063	561060	0.19%	562182	560063	560938

Ready CAP NUM

L2

7/2/12

70816

Cal: H07022C1

Run: H07022W1

Batches: 70768

70771

POST-RUN REPORT

70816

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV       Seq:  2       13:13:10 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     3.03    3.00  ppb         .000

*** Check Standard: 1  Ck1ICB       Seq:  3       13:14:46 02 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.058     .200     ppb        .000

*** Check Standard: 4  Ck4CRA       Seq:  4       13:16:22 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          79.1     .158    .200  ppb         .000

*** Check Standard: 3  Ck3CCV       Seq:  5       13:17:59 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     2.06    2.00  ppb         .000

*** Check Standard: 1  Ck1CCB       Seq:  6       13:19:35 02 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.051     .200     ppb        .000

*** Sample ID:                      Seq:  7       13:21:12 02 Jul 12   HG
                          mb 480-70768/1-a
Hg   -.042    ppb       .000     -.042

*** Sample ID:                      Seq:  8       13:22:48 02 Jul 12   HG
                          lcs 480-70768/2-a
Hg    4.12    ppb       .000      4.12

*** Sample ID:                      Seq:  9       13:24:26 02 Jul 12   HG
                          480-21981-a-1-a
Hg    .220    ppb       .000      .220

*** Sample ID:                      Seq:  10      13:26:16 02 Jul 12   HG
                          480-21981-a-2-a
Hg    .567    ppb       .000      .567

*** Sample ID:                      Seq:  11      13:27:52 02 Jul 12   HG
                          480-21981-a-3-a
Hg   -.038    ppb       .000     -.038

*** Sample ID:                      Seq:  12      13:29:32 02 Jul 12   HG
                          480-21981-a-4-a
Hg    .790    ppb       .000      .790

*** Sample ID:                      Seq:  13      13:31:17 02 Jul 12   HG
                          480-21981-a-5-a
Hg    .982    ppb       .000      .982

*** Sample ID:                      Seq:  14      13:32:54 02 Jul 12   HG
                          480-21981-a-6-a
Hg   -.025    ppb       .000     -.025

*** Sample ID:                      Seq:  15      13:34:44 02 Jul 12   HG
                          480-21981-a-7-a
Hg   -.046    ppb       .000     -.046

*** Sample ID:                      Seq:  16      13:36:35 02 Jul 12   HG
                          480-21981-a-9-a
Hg   -.026    ppb       .000     -.026
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV        Seq:  17      13:38:10 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.04    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  18      13:39:59 02 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.047     .200     ppb        .000

*** Sample ID:                       Seq:  19      13:41:34 02 Jul 12   HG
                          480-21981-a-10-a
Hg   -.026    ppb       .000     -.026

*** Sample ID:                       Seq:  20      13:43:21 02 Jul 12   HG
                          480-21981-a-8-a
Hg    .046    ppb       .000      .046

*** Sample ID:                       Seq:  21      13:44:57 02 Jul 12   HG
                          480-21967-a-1-a @ 10 JK 7/2/12
Hg    4.97    ppb       .000      4.97

*** Sample ID:                       Seq:  22      13:46:36 02 Jul 12   HG
                          480-21967-b-3-a
Hg    1.33    ppb       .000      1.33

*** Sample ID:                       Seq:  23      13:48:32 02 Jul 12   HG
                          480-21945-p-1-a
Hg   -.050    ppb       .000     -.050

*** Sample ID:                       Seq:  24      13:50:10 02 Jul 12   HG
                          480-21994-a-10-a
Hg   -.029    ppb       .000     -.029

*** Sample ID:                       Seq:  25      13:51:46 02 Jul 12   HG
                          480-21994-a-10-a SD@
Hg   -.048    ppb       .000     -.048

*** Sample ID:                       Seq:  26      13:53:22 02 Jul 12   HG
                          480-21994-a-10-b ms
Hg    4.04    ppb       .000      4.04

*** Sample ID:                       Seq:  27      13:55:09 02 Jul 12   HG
                          480-21994-a-10-c msd
Hg    3.96    ppb       .000      3.96

*** Sample ID:                       Seq:  28      13:56:56 02 Jul 12   HG
                          480-22066-a-6-a
Hg   -.057    ppb       .000     -.057

*** Check Standard: 3  Ck3CCV        Seq:  29      13:58:34 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.03    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  30      14:00:12 02 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.052     .200     ppb        .000

*** Sample ID:                       Seq:  31      14:01:59 02 Jul 12   HG
                          480-21999-f-1-a
Hg   -.029    ppb       .000     -.029
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                        Seq:  32     14:03:51 02 Jul 12   HG
                          480-22002-f-1-a
Hg   -.045    ppb       .000     -.045

*** Sample ID:                        Seq:  33     14:05:28 02 Jul 12   HG
                          480-22012-s-1-a
Hg   -.050    ppb       .000     -.050

*** Sample ID:                        Seq:  34     14:07:08 02 Jul 12   HG
                          480-21923-c-1-b
Hg    .194    ppb       .000      .194

*** Sample ID:                        Seq:  35     14:08:46 02 Jul 12   HG
                          480-22050-s-1-a
Hg   -.046    ppb       .000     -.046

*** Sample ID:                        Seq:  36     14:10:25 02 Jul 12   HG
                          mb 480-70771/1-a
Hg   -.060    ppb       .000     -.060

*** Sample ID:                        Seq:  37     14:12:44 02 Jul 12   HG
                          lcs 480-70771/2-a
Hg    4.02    ppb       .000      4.02

*** Sample ID:                        Seq:  38     14:14:25 02 Jul 12   HG
                          480-21992-e-1-a
Hg   -.050    ppb       .000     -.050

*** Sample ID:                        Seq:  39     14:16:06 02 Jul 12   HG
                          480-21992-e-1-a SD@5
Hg   -.056    ppb       .000     -.056

*** Sample ID:                        Seq:  40     14:17:42 02 Jul 12   HG
                          480-21992-e-1-b ms
Hg    4.05    ppb       .000      4.05

*** Check Standard: 3  Ck3CCV       Seq:  41     14:19:50 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.04    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  42     14:21:25 02 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          -.049     .200     ppb        .000

*** Sample ID:                        Seq:  43     14:23:03 02 Jul 12   HG
                          480-21992-e-1-c msd
Hg    4.08    ppb       .000      4.08

*** Sample ID:                        Seq:  44     14:24:55 02 Jul 12   HG
                          480-21992-e-2-a
Hg   -.050    ppb       .000     -.050

*** Sample ID:                        Seq:  45     14:26:32 02 Jul 12   HG
                          480-21992-e-3-a
Hg   -.040    ppb       .000     -.040

*** Sample ID:                        Seq:  46     14:28:20 02 Jul 12   HG
                          480-21992-e-4-a
Hg    .074    ppb       .000      .074
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                        Seq:  47     14:30:10 02 Jul 12   HG
                          480-21992-e-5-a
Hg   -.044    ppb       .000     -.044

*** Sample ID:                        Seq:  48     14:31:46 02 Jul 12   HG
                          480-21992-e-6-a
Hg   -.045    ppb       .000     -.045

*** Sample ID:                        Seq:  49     14:33:24 02 Jul 12   HG
                          480-21993-e-1-a
Hg   -.049    ppb       .000     -.049

*** Sample ID:                        Seq:  50     14:35:05 02 Jul 12   HG
                          480-21993-e-2-a
Hg   -.043    ppb       .000     -.043

*** Sample ID:                        Seq:  51     14:36:46 02 Jul 12   HG
                          480-21993-e-3-a
Hg   -.041    ppb       .000     -.041

*** Sample ID:                        Seq:  52     14:38:23 02 Jul 12   HG
                          480-21993-e-4-a
Hg   -.045    ppb       .000     -.045

*** Check Standard: 3  Ck3CCV       Seq:  53     14:39:59 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.02    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  54     14:41:39 02 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.047     .200     ppb        .000

*** Sample ID:                        Seq:  55     14:43:14 02 Jul 12   HG
                          480-21993-e-5-a
Hg   -.042    ppb       .000     -.042

*** Sample ID:                        Seq:  56     14:44:52 02 Jul 12   HG
                          480-21993-e-6-a
Hg   -.050    ppb       .000     -.050

*** Sample ID:                        Seq:  57     14:46:39 02 Jul 12   HG
                          480-21993-e-7-a
Hg   -.045    ppb       .000     -.045

*** Check Standard: 4  Ck4CRA       Seq:  58     14:48:17 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          81.6     .163    .200   ppb        .000

*** Check Standard: 3  Ck3CCV       Seq:  59     14:49:53 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.03    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  60     14:51:29 02 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.052     .200     ppb        .000
```

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧

Protocol hgppb | BUSY | Dataset/Proto H07032TC/hgppb

L2

7/3/12

Protocol | Line Info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.80360e-5

C -4.47192e-2

rho .999949

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs.
554859

Accepted

New

Include S7 Rep 1 2 3 4 5

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.035	-.035	536	144	395	682	530
02	.20000	.181	-.019	12523	2.66%	12438	12239	12889
03	1.0000	1.00	.002	58013	0.42%	58289	57928	57819
04	2.0000	2.03	.027	114862	0.14%	114951	114956	114681
05	5.0000	5.06	.063	283178	0.35%	283746	283742	282047
06	10.000	9.96	-.037	554859	0.15%	555802	554500	554278

Ready CAP NUM

71002

Cal: H07032.C1

Run: H07032TC

Batches: 70855
71008
71009

Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

7/002

*** Check Standard: 2 Ck2ICV Seq: 1 13:56:17 03 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	3.03	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 13:58:06 03 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.037	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 13:59:43 03 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		82.4	.165	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 14:01:19 03 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	2.05	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 14:03:08 03 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.032	.200	ppb	.000

*** Sample ID: Seq: 6 14:04:47 03 Jul 12 HG
mb 480-70855/1-a

Hg	-.031	ppb	.000	-.031

*** Sample ID: Seq: 7 14:06:38 03 Jul 12 HG
lcs 480-70855/2-a

Hg	3.95	ppb	.000	3.95

*** Sample ID: Seq: 8 14:08:27 03 Jul 12 HG
480-21959-e-1-c

Hg	-.024	ppb	.000	-.024

*** Sample ID: Seq: 9 14:10:08 03 Jul 12 HG
480-22012-n-1-c

Hg	-.025	ppb	.000	-.025

*** Sample ID: Seq: 10 14:11:47 03 Jul 12 HG
480-22036-a-2-e

Hg	-.031	ppb	.000	-.031

*** Sample ID: Seq: 11 14:13:37 03 Jul 12 HG
480-22036-a-2-e SD@5

Hg	-.032	ppb	.000	-.032

*** Sample ID: Seq: 12 14:15:20 03 Jul 12 HG
480-22036-a-2-f ms

Hg	3.65	ppb	.000	3.65

*** Sample ID: Seq: 13 14:17:06 03 Jul 12 HG
480-22036-a-2-g msd

Hg	3.92	ppb	.000	3.92

*** Sample ID: Seq: 14 14:18:46 03 Jul 12 HG
480-22050-1-1-c

Hg	-.048	ppb	.000	-.048

*** Sample ID: Seq: 15 14:20:25 03 Jul 12 HG
lb 480-70772/1-c

Hg	-.039	ppb	.000	-.039

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 14:22:12 03 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	2.06	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 14:23:52 03 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.042	.200	ppb	.000

*** Sample ID: Seq: 18 14:25:34 03 Jul 12 HG
mb 480-71008/2-a

Hg	-.037	ppb	.000	-.037

*** Sample ID: Seq: 19 14:27:23 03 Jul 12 HG
lcs 480-71008/3-a

Hg	3.95	ppb	.000	3.95

*** Sample ID: Seq: 20 14:29:01 03 Jul 12 HG
480-21954-a-1-f

Hg	-.058	ppb	.000	-.058

*** Sample ID: Seq: 21 14:30:47 03 Jul 12 HG
480-21954-a-1-f SD@5

Hg	-.034	ppb	.000	-.034

*** Sample ID: Seq: 22 14:32:25 03 Jul 12 HG
480-21954-a-1-g ms

Hg	3.79	ppb	.000	3.79

*** Sample ID: Seq: 23 14:34:03 03 Jul 12 HG
480-21954-a-1-h msd

Hg	3.75	ppb	.000	3.75

*** Sample ID: Seq: 24 14:35:40 03 Jul 12 HG
480-21954-a-2-d

Hg	-.021	ppb	.000	-.021

*** Sample ID: Seq: 25 14:37:16 03 Jul 12 HG
480-22000-a-1-b

Hg	-.008	ppb	.000	-.008

*** Sample ID: Seq: 26 14:38:53 03 Jul 12 HG
480-22000-a-2-b

Hg	-.017	ppb	.000	-.017

*** Sample ID: Seq: 27 14:40:50 03 Jul 12 HG
480-22018-b-1-c

Hg	-.018	ppb	.000	-.018

*** Check Standard: 3 Ck3CCV Seq: 28 14:42:42 03 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		104.	2.07	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 14:44:17 03 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.092	.200	ppb	.000

*** Sample ID: Seq: 30 14:46:24 03 Jul 12 HG
480-22036-a-1-d

Hg	-.075	ppb	.000	-.075

Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 31	14:48:03 03 Jul 12	HG		
			480-22063-a-1-c					
Hg	-.051	ppb	.000	-.051				
*** Sample ID:				Seq: 32	14:49:41 03 Jul 12	HG		
			lb2 480-70957/3-b					
Hg	.004	ppb	.000	.004				
*** Sample ID:				Seq: 33	14:51:22 03 Jul 12	HG		
			mb 480-71009/2-a					
Hg	.035	ppb	.000	.035				
*** Sample ID:				Seq: 34	14:53:02 03 Jul 12	HG		
			lcs 480-71009/3-a					
Hg	3.98	ppb	.000	3.98				
*** Sample ID:				Seq: 35	14:55:09 03 Jul 12	HG		
			480-21920-a-1-f					
RR1:10 Hg	16.1	H ppb	.000	16.1				
*** Sample ID:				Seq: 36	14:57:00 03 Jul 12	HG		
			480-21920-a-1-f SD@5					
RR1:50 Hg	3.35	ppb	.000	3.35				
*** Sample ID:				Seq: 37	14:58:43 03 Jul 12	HG		
			480-21920-a-1-g ms					
RR1:10 Hg	19.7	H ppb	.000	19.7				
*** Sample ID:				Seq: 38	15:00:23 03 Jul 12	HG		
			480-21920-a-1-h msd					
Hg	20.0	H ppb	.000	20.0				
*** Sample ID:				Seq: 39	15:02:05 03 Jul 12	HG		
			480-22003-a-1-c					
RRST. Hg	.228	ppb	.000	.228				

*** Check Standard: 3 Ck3CCV Seq: 40 15:03:43 03 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	2.06	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 41 15:05:34 03 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.065	.200	ppb	.000

*** Sample ID:				Seq: 42	15:12:10 03 Jul 12	HG		
			480-21920-a-1-f @10 JK 7/3/12					
Hg	1.69	ppb	.000	1.69				
*** Sample ID:				Seq: 43	15:13:48 03 Jul 12	HG		
			480-21920-a-1-f SD@50 JK 7/3/12					
Hg	.305	ppb	.000	.305				
*** Sample ID:				Seq: 44	15:15:26 03 Jul 12	HG		
			480-21920-a-1-g ms@10 JK 7/3/12					
Hg	2.16	ppb	.000	2.16				
*** Sample ID:				Seq: 45	15:17:07 03 Jul 12	HG		
			480-21920-a-1-h msd @10 JK 7/3/12					
Hg	2.22	ppb	.000	2.22				

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 46 15:18:45 03 Jul 12 HG

480-22003-a-1-c

Hg	.283	ppb	.000	.283

*** Check Standard: 3 Ck3CCV Seq: 47 15:21:03 03 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.04	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 48 15:22:40 03 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.025	.200	ppb	.000

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧

Protocol hgppb

Dataset/Proto H07092TC/hgppb

L2

7/9/12

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.25115e-5

C -1.16174e-2

rho .999942

☑ Calibrated

☑ Accepted

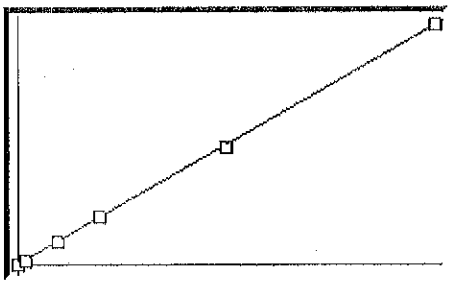
Accept

Type Linear

Rel. Abs.
802730

Accepted

New



Conc. 10.0

Include S8 Rep 1 2 3 4 5

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.006	-.006	466	532	-148	795	750
02	.20000	.207	.007	17499	1.11%	17561	17282	17656
03	1.0000	1.02	.021	82522	0.91%	81947	83373	82244
04	2.0000	2.03	.026	162858	0.84%	163991	161332	163249
05	5.0000	4.92	-.080	394153	0.87%	397615	390749	394098
06	10.000	10.0	.032	802730	0.24%	804838	802282	801073

71555

Ready CAP NUM

Cal: H07092C1

Run: H07092TC

Batches: 71509

Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

71555

*** Check Standard: 2 Ck2ICV Seq: 1 11:37:23 09 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	3.10	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 11:39:04 09 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.001	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 11:40:45 09 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.	.213	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 11:42:21 09 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		104.	2.07	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 11:44:09 09 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.001	.200	ppb	.000

*** Sample ID: Seq: 6 11:45:44 09 Jul 12 HG
lb 480-71376/1-b

Hg	.826	ppb	.000	.826

*** Sample ID: Seq: 7 11:47:58 09 Jul 12 HG
mb 480-71509/2-a

Hg	.022	ppb	.000	.022

*** Sample ID: Seq: 8 11:49:33 09 Jul 12 HG
lcs 480-71509/3-a

Hg	4.39	ppb	.000	4.39

*** Sample ID: Seq: 9 11:51:12 09 Jul 12 HG
480-21994-a-1-c

Rev:5 Hg 16.5 H ppb .000 16.5

*** Sample ID: Seq: 10 11:52:51 09 Jul 12 HG
480-21994-a-1-c SD@5

Rev:25 Hg 3.57 ppb .000 3.57

*** Sample ID: Seq: 11 11:54:37 09 Jul 12 HG
480-21994-a-1-d ms

Rev:5 Hg 18.6 H ppb .000 18.6

*** Sample ID: Seq: 12 11:56:14 09 Jul 12 HG
480-21994-a-1-e msd

Hg 19.5 H ppb .000 19.5

*** Check Standard: 3 Ck3CCV Seq: 13 11:58:05 09 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.8	2.00	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 14 11:59:41 09 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.016	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 15 12:14:00 09 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.04	2.00	ppb	.000

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 1 Ck1CCB Seq: 16 12:15:58 09 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.004	.200	ppb	.000

*** Sample ID: Seq: 17 12:17:34 09 Jul 12 HG
480-21994-a-1-c@5

Hg	3.61	ppb	.000	3.61

*** Sample ID: Seq: 18 12:19:14 09 Jul 12 HG
21994-a-1-c SD@25

Hg	.738	ppb	.000	.738

*** Sample ID: Seq: 19 12:20:48 09 Jul 12 HG
21994-a-1-d ms@5

Hg	4.08	ppb	.000	4.08

*** Sample ID: Seq: 20 12:22:44 09 Jul 12 HG
21994-a-1-e msd@5

Hg	4.29	ppb	.000	4.29

*** Check Standard: 3 Ck3CCV Seq: 21 12:24:23 09 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.02	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 22 12:26:04 09 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.002	.200	ppb	.000

WinHg Database 1.1

File Utility Help

Protocol HgSoil Dataset/Proto J06292S1/HgSoil

Protocol | Line Info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.55695e-5

C -4.14617e-2

rho .999995

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs. 644548

Accepted

New

Include 67 Rep 1 2 3 4 5

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.006	.006	3019	1209	2441	4408	2208
02	.20000	.179	-.021	14147	14.34%	15564	15054	11823
03	1.0000	1.00	.005	67190	2.98%	68474	64882	68211
04	2.0000	2.01	.008	131660	0.49%	132342	131045	131596
05	5.0000	5.01	.009	324368	0.32%	324135	323476	325496
06	10.000	9.99	-.006	644549	1.13%	652982	640211	640453

Ready CAP NUM

L3
6/29/12

70558

Cal: J06292CS

Run: J06292S1

Batches: 70616

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV        Seq:  1       15:18:03 29 Jun 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     3.07    3.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  2       15:19:08 29 Jun 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.083     .200     ppb        .000

*** Check Standard: 4  Ck4CRA        Seq:  3       15:20:34 29 Jun 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          111.     .221    .200   ppb        .000

*** Check Standard: 3  Ck3CCV        Seq:  4       15:22:50 29 Jun 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     2.07    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  5       15:24:02 29 Jun 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.093     .200     ppb        .000

*** Sample ID:                       Seq:  6       15:25:40 29 Jun 12   HG
                          mb 480-70616/1-a
Hg   -.036    ppb       .000     -.036

*** Sample ID:                       Seq:  7       15:26:56 29 Jun 12   HG
                          lcssrm 480-70616/2-a
Hg    3.94    ppb       .000      3.94

*** Sample ID:                       Seq:  8       15:28:01 29 Jun 12   HG
                          480-21941-a-3-a
Hg    .216    ppb       .000      .216

*** Sample ID:                       Seq:  9       15:29:06 29 Jun 12   HG
                          480-21909-a-1-a
Hg    .067    ppb       .000      .067

*** Sample ID:                       Seq:  10      15:30:18 29 Jun 12   HG
                          480-21920-a-1-a
RR 1:20 Hg    47.6  H ppb       .000      47.6

*** Sample ID:                       Seq:  11      15:32:26 29 Jun 12   HG
                          480-21920-a-1-a SD@5
1:100 Hg    11.5  H ppb       .000      11.5

*** Sample ID:                       Seq:  12      15:33:51 29 Jun 12   HG
                          480-21920-a-1-b ms
RR 1:20 Hg    69.1  H ppb       .000      69.1

*** Sample ID:                       Seq:  13      15:35:07 29 Jun 12   HG
                          480-21920-a-1-c msd
Hg    53.5  H ppb       .000      53.5

*** Sample ID:                       Seq:  14      15:36:28 29 Jun 12   HG
                          480-21964-a-1-d
RR ST Hg    .148    ppb       .000      .148

*** Sample ID:                       Seq:  15      15:38:04 29 Jun 12   HG
                          480-21941-a-1-c
Hg    5.82    ppb       .000      5.82
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV        Seq:  16      15:39:11 29 Jun 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.0    1.92    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  17      15:40:29 29 Jun 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.052     .200     ppb        .000

*** Sample ID:                       Seq:  18      15:41:48 29 Jun 12   HG
                            480-21941-a-2-c
Hg    5.30    ppb        .000      5.30

*** Sample ID:                       Seq:  19      15:44:19 29 Jun 12   HG
                            480-21994-a-1-a
RR 1:100 Hg    ^^^^^^O ppb        ^^^^^^    ^^^^^^

*** Sample ID:                       Seq:  20      15:45:37 29 Jun 12   HG
                            480-21994-a-2-a
RRST.  Hg    .842    ppb        .000      .842

*** Sample ID:                       Seq:  21      15:47:17 29 Jun 12   HG
                            480-21994-a-3-a
RR 1:10 Hg    27.9  H ppb        .000      27.9

*** Sample ID:                       Seq:  22      15:48:33 29 Jun 12   HG
                            480-21994-a-4-a
RRST   Hg   -.127    ppb        .000     -.127

*** Sample ID:                       Seq:  23      15:50:14 29 Jun 12   HG
                            480-21994-a-5-a
RR 1:5 Hg    15.3  H ppb        .000      15.3

*** Sample ID:                       Seq:  24      15:51:21 29 Jun 12   HG
                            480-21994-a-6-a
RRST   Hg   -.122    ppb        .000     -.122

*** Sample ID:                       Seq:  25      15:52:28 29 Jun 12   HG
                            480-21994-a-7-a
Hg    2.70    ppb        .000      2.70

*** Sample ID:                       Seq:  26      15:53:55 29 Jun 12   HG
                            480-21994-a-8-a
Hg    .305    ppb        .000      .305

*** Sample ID:                       Seq:  27      15:55:12 29 Jun 12   HG
                            480-21994-a-9-a
Hg    .073    ppb        .000      .073

*** Check Standard: 3  Ck3CCV        Seq:  28      15:56:19 29 Jun 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.    2.02    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  29      15:57:25 29 Jun 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.067     .200     ppb        .000

*** Sample ID:                       Seq:  30      15:58:34 29 Jun 12   HG
                            480-21994-a-11-a
RR 1:20 Hg    30.7  H ppb        .000      30.7
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  31     15:59:46 29 Jun 12   HG
                              480-21994-a-12-a
RR1:5 Hg    12.5  H ppb       .000      12.5

*** Sample ID:                          Seq:  32     16:13:35 29 Jun 12   HG
                              480-21920-a-1-a @20
Hg    3.04    ppb         .000      3.04

*** Sample ID:                          Seq:  33     16:15:00 29 Jun 12   HG
                              21920-a-1-a SD@100
Hg    .585    ppb         .000      .585

*** Sample ID:                          Seq:  34     16:16:11 29 Jun 12   HG
                              21920-a-1-b ms @20
Hg    5.28    ppb         .000      5.28

*** Sample ID:                          Seq:  35     16:17:38 29 Jun 12   HG
                              21920-a-1-c msd@20
Hg    3.53    ppb         .000      3.53

*** Sample ID:                          Seq:  36     16:19:06 29 Jun 12   HG
                              480-21964-a-1-d
Hg    .521    ppb         .000      .521

*** Sample ID:                          Seq:  37     16:21:23 29 Jun 12   HG
                              480-21994-a-1-a@100
RR1:5 Hg    14.6  H ppb       .000      14.6

*** Sample ID:                          Seq:  38     16:22:38 29 Jun 12   HG
                              480-21994-a-2-a
Hg    .953    ppb         .000      .953

*** Sample ID:                          Seq:  39     16:23:44 29 Jun 12   HG
                              480-21994-a-3-a@10
Hg    3.14    ppb         .000      3.14

*** Check Standard: 3  Ck3CCV       Seq:  40     16:25:10 29 Jun 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.01    2.00  ppb         .000

*** Check Standard: 1  Ck1CCB       Seq:  41     16:26:46 29 Jun 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          -.084     .200     ppb        .000

*** Sample ID:                          Seq:  42     16:28:29 29 Jun 12   HG
                              480-21994-a-4-a
Hg    .095    ppb         .000      .095

*** Sample ID:                          Seq:  43     16:29:46 29 Jun 12   HG
                              480-21994-a-5-a@5
Hg    3.01    ppb         .000      3.01

*** Sample ID:                          Seq:  44     16:30:52 29 Jun 12   HG
                              480-21994-a-6-a
Hg    .050    ppb         .000      .050

*** Sample ID:                          Seq:  45     16:31:58 29 Jun 12   HG
                              480-21994-a-11-a@20
Hg    1.84    ppb         .000      1.84
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 46 16:33:04 29 Jun 12 HG
480-21994-a-12-a@5

Hg	2.46	ppb	.000	2.46

*** Sample ID: Seq: 47 16:41:54 29 Jun 12 HG
480-21994-a-1-a@500

Hg	3.04	ppb	.000	3.04

*** Check Standard: 3 Ck3CCV Seq: 48 16:43:03 29 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 49 16:44:10 29 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.078	.200	ppb	.000

WinHg Database 1.1

File Utility Help

RN RN

Protocol HgSoil

Dataset/Proto J07022S2/HgSoil

Protocol | Line Info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.62300e-5

C -3.73231e-2

rho .999983

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs. 617552

Accepted

New

Include S7 Rep 1 2 3 4 5

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.024	-.024	805	244	1014	865	538
02	.20000	.182	-.018	13523	1.18%	13411	13451	13705
03	1.0000	1.01	.008	64417	1.35%	65390	63711	64149
04	2.0000	2.03	.035	127680	0.64%	127093	127337	128609
05	5.0000	5.01	.013	311200	0.53%	313062	309974	310561
06	10.000	9.99	-.014	617553	0.61%	621628	614116	616914

Ready CAP NUM

C3

7/2/12

70818

Cal: J07022C2

Run: J07022S2

Batches: 7083

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

J0818

*** Check Standard: 2 Ck2ICV Seq: 4 14:01:10 02 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.1	2.97	3.00	ppb	.000

*** Check Standard: 1 Ck1ICB Seq: 5 14:02:16 02 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.067	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 6 14:03:21 02 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.7	.187	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 7 14:04:47 02 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.04	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 8 14:05:58 02 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.039	.200	ppb	.000

*** Sample ID: Seq: 9 14:07:04 02 Jul 12 HG
mb 480-70803/1-a

Hg	-.037	ppb	.000	-.037

*** Sample ID: Seq: 10 14:08:09 02 Jul 12 HG
lcssrm 480-70803/2-a

Hg	3.91	ppb	.000	3.91

*** Sample ID: Seq: 11 14:09:28 02 Jul 12 HG
480-21994-a-5-b @5

Hg	1.82	ppb	.000	1.82

*** Sample ID: Seq: 12 14:10:44 02 Jul 12 HG
21994-a-5-b SD@25

Hg	.313	ppb	.000	.313

*** Sample ID: Seq: 13 14:11:54 02 Jul 12 HG
21994-a-5-c ms@5

Hg	3.26	ppb	.000	3.26

*** Sample ID: Seq: 14 14:13:00 02 Jul 12 HG
21994-a-5-d msd@5

Hg	3.11	ppb	.000	3.11

*** Sample ID: Seq: 15 14:14:22 02 Jul 12 HG
480-22035-a-4-a

Hg	.104	ppb	.000	.104

*** Sample ID: Seq: 16 14:15:32 02 Jul 12 HG
480-22035-a-5-a

Hg	.232	ppb	.000	.232

*** Sample ID: Seq: 17 14:16:40 02 Jul 12 HG
480-22035-a-6-a

Hg	.071	ppb	.000	.071

*** Sample ID: Seq: 18 14:17:46 02 Jul 12 HG
480-22003-b-1-a@10

RR ST.

Hg	.166	ppb	.000	.166

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV       Seq:  19      14:19:01 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.03    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  20      14:20:09 02 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.070     .200     ppb        .000

*** Sample ID:                      Seq:  21      14:21:16 02 Jul 12   HG
                          480-22066-a-1-a@10
RRST. Hg   -.029    ppb       .000     -.029

*** Sample ID:                      Seq:  22      14:22:34 02 Jul 12   HG
                          480-22066-a-2-a@10
O.K.  Hg    1.70    ppb       .000      1.70

*** Sample ID:                      Seq:  23      14:23:42 02 Jul 12   HG
                          480-22066-a-3-a@10
RRST. Hg   -.046    ppb       .000     -.046

*** Sample ID:                      Seq:  24      14:25:19 02 Jul 12   HG
                          480-22066-a-4-a@10
Hg   -.023    ppb       .000     -.023

*** Sample ID:                      Seq:  25      14:26:24 02 Jul 12   HG
                          480-22066-a-5-a@10
Hg   -.023    ppb       .000     -.023

*** Sample ID:                      Seq:  26      14:27:44 02 Jul 12   HG
                          480-22066-a-7-a@10
Hg   -.023    ppb       .000     -.023

*** Sample ID:                      Seq:  27      14:28:49 02 Jul 12   HG
                          22066-a-7-a SD@50
Hg   -.031    ppb       .000     -.031

*** Sample ID:                      Seq:  28      14:30:19 02 Jul 12   HG
                          22066-a-7-b ms@10
Hg    .377    ppb       .000      .377

*** Sample ID:                      Seq:  29      14:40:05 02 Jul 12   HG
                          22066-a-7-c msd@10
RRST. Hg    .376    ppb       .000      .376

*** Sample ID:                      Seq:  30      14:41:12 02 Jul 12   HG
                          480-22066-a-8-a@10
Hg   -.011    ppb       .000     -.011

*** Check Standard: 3  Ck3CCV       Seq:  31      14:49:21 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.02    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  32      14:50:36 02 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.040     .200     ppb        .000

*** Sample ID:                      Seq:  33      14:52:17 02 Jul 12   HG
                          480-22066-a-9-a@10
RRST. Hg   -.019    ppb       .000     -.019
```

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 34 14:53:23 02 Jul 12 HG
480-22003-b-1-a

Hg	1.94	ppb	.000	1.94

*** Sample ID: Seq: 35 14:54:34 02 Jul 12 HG
480-22066-a-1-a

Hg	.103	ppb	.000	.103

*** Sample ID: Seq: 36 14:56:12 02 Jul 12 HG
480-22066-a-3-a

Hg	.020	ppb	.000	.020

*** Sample ID: Seq: 37 14:57:30 02 Jul 12 HG
480-22066-a-4-a

Hg	.076	ppb	.000	.076

*** Sample ID: Seq: 38 14:58:47 02 Jul 12 HG
480-22066-a-5-a

Hg	.107	ppb	.000	.107

*** Sample ID: Seq: 39 14:59:53 02 Jul 12 HG
480-22066-a-7-a

Hg	.076	ppb	.000	.076

*** Sample ID: Seq: 40 15:01:00 02 Jul 12 HG
22066-a-7-a SD@5

Hg	.014	ppb	.000	.014

*** Sample ID: Seq: 41 15:02:26 02 Jul 12 HG
22066-a-7-b ms

Hg	3.86	ppb	.000	3.86

*** Sample ID: Seq: 42 15:03:35 02 Jul 12 HG
22066-a-7-c msd

Hg	3.84	ppb	.000	3.84

*** Sample ID: Seq: 43 15:04:42 02 Jul 12 HG
480-22066-a-8-a

Hg	-.013	ppb	.000	-.013

*** Check Standard: 3 Ck3CCV Seq: 44 15:05:49 02 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.04	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 45 15:07:24 02 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.012	.200	ppb	.000

*** Sample ID: Seq: 46 15:08:59 02 Jul 12 HG
480-22066-a-9-a

Hg	.129	ppb	.000	.129

*** Check Standard: 3 Ck3CCV Seq: 47 15:10:08 02 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 48 15:11:15 02 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.041	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70768 Batch Start Date: 07/02/12 09:30 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00126			
MB 480-70768/1		7470A, 7470A		30 mL	50 mL				
LCS 480-70768/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-21994-A-10	MR-FB-062812	7470A, 7470A	T	30 mL	50 mL				
480-21994-A-10 MS	MR-FB-062812	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-21994-A-10 MSD	MR-FB-062812	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-22066-A-6	MR-FB-062912	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch : 70816
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597538
Hot Block ID number	A
Potassium Persulfate Lot Number	747131
Potassium Permanganate Lot Number	770990
Oven, Bath or Block Temperature 1	94.5 Celsius
Pipette ID	MDL-3
Stannous Chloride Lot Number	792748
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70772 Batch Start Date: 07/02/12 08:55 Batch Analyst: Radigan, Timothy

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	EFD_PartSizeRed	EFD_SampleWeight	EFD_VolumeWater Add
LB 480-70772/1		1311, 7470A, 7470A			2000 mL	4.92 SU			
480-22000-A-1	MR-SB-1SS-DP-12-5-5.5	1311, 7470A, 7470A	P	100.28 g	2000 mL	4.91 SU	No	5.03 g	96 mL
480-22000-A-2	MR-SB-1SS-DP-15-4.5-5	1311, 7470A, 7470A	P	100.72 g	2000 mL	4.94 SU	No	5.24 g	96 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_InitialpH	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	ExtractionFluid One	ExtractionFluid Two
LB 480-70772/1		1311, 7470A, 7470A						Yes	No
480-22000-A-1	MR-SB-1SS-DP-12-5-5.5	1311, 7470A, 7470A	P	6.96 SU	3.5 mL	Yes	1.79 SU	Yes	No
480-22000-A-2	MR-SB-1SS-DP-15-4.5-5	1311, 7470A, 7470A	P	7.31 SU	3.5 mL	Yes	1.82 SU	Yes	No

Lab Sample ID	Client Sample ID	Method Chain	Basis	PartSizeRed	InitialRoomTemp	FinalRoomTemp	VesselNumber	FiltCompDate	FiltCompTime
LB 480-70772/1		1311, 7470A, 7470A			23.00 Celsius	22.00 Celsius	KG	7/3/12	09:35
480-22000-A-1	MR-SB-1SS-DP-12-5-5.5	1311, 7470A, 7470A	P	No	23.00 Celsius	22.00 Celsius	Plastic	7/3/12	09:35
480-22000-A-2	MR-SB-1SS-DP-15-4.5-5	1311, 7470A, 7470A	P	No	23.00 Celsius	22.00 Celsius	Plastic	7/3/12	09:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	LeachVolume	TCLP%Solids	ExtractFluid		
LB 480-70772/1		1311, 7470A, 7470A		4.91 SU	825 mL		1		
480-22000-A-1	MR-SB-1SS-DP-12-5-5.5	1311, 7470A, 7470A	P	4.93 SU	750 mL	100 %	1		
480-22000-A-2	MR-SB-1SS-DP-15-4.5-5	1311, 7470A, 7470A	P	5.19 SU	750 mL	100 %	1		

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70772 Batch Start Date: 07/02/12 08:55 Batch Analyst: Radigan, Timothy

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
Batch Comment	pH of 820401 is 4.91
pH Buffer 1 ID	796757
pH Buffer 2 ID	796758
pH Buffer 3 ID	610835
First End time	7:05
pH Meter ID	566020
Room Temperature during Rotation	21.70-23.70 Degrees C
Room Temperature Thermometer ID	80531828
First Start time	15:05
TCLP Fluid 1 ID	820401
Temperature	correction factor + 0.70 Degrees C
ID number of the thermometer	80531828
Tumbler Rotations per Minute	28 RPM
Uncorrected Final Room Temperature	22.00 Celsius
Uncorrected Initial Room Temperature	23.00 Celsius
Uncorrected Room Temperature	21.00-23.00 Celsius
Uncorrected Temperature	22.00 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70957 Batch Start Date: 07/02/12 08:55 Batch Analyst: Radigan, Timothy

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	EFD_PartSizeRed	EFD_SampleWeight	EFD_VolumeWater Add
480-21920-A-1	MR-C-1SS-DP-11-0 -0.5	1311, 7470A, 7470A	P	100.79 g	2000 mL	4.09 SU	No	5.84 g	96 mL
480-22003-A-1	MR-C-1SS-DP-15-0 -0.5	1311, 7470A, 7470A	P	100.57 g	2000 mL	3.94 SU	No	5.11 g	96 mL
LB2 480-70957/3		1311, 7470A, 7470A			2000 mL	2.89 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_InitialpH	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	ExtractionFluid One	ExtractionFluid Two
480-21920-A-1	MR-C-1SS-DP-11-0 -0.5	1311, 7470A, 7470A	P	11.74 SU	3.5 mL	Yes	7.47 SU	No	Yes
480-22003-A-1	MR-C-1SS-DP-15-0 -0.5	1311, 7470A, 7470A	P	11.73 SU	3.5 mL	Yes	9.23 SU	No	Yes
LB2 480-70957/3		1311, 7470A, 7470A						No	Yes

Lab Sample ID	Client Sample ID	Method Chain	Basis	PartSizeRed	InitialRoomTemp	FinalRoomTemp	VesselNumber	FiltCompDate	FiltCompTime
480-21920-A-1	MR-C-1SS-DP-11-0 -0.5	1311, 7470A, 7470A	P	No	23.00 Celsius	22.00 Celsius	Au	7/3/12	09:45
480-22003-A-1	MR-C-1SS-DP-15-0 -0.5	1311, 7470A, 7470A	P	No	23.00 Celsius	22.00 Celsius	3A	7/3/12	09:45
LB2 480-70957/3		1311, 7470A, 7470A			23.00 Celsius	22.00 Celsius	DLE	7/3/12	09:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	LeachVolume	TCLP%Solids	ExtractFluid		
480-21920-A-1	MR-C-1SS-DP-11-0 -0.5	1311, 7470A, 7470A	P	5.30 SU	750 mL	100 %	2		
480-22003-A-1	MR-C-1SS-DP-15-0 -0.5	1311, 7470A, 7470A	P	5.15 SU	750 mL	100 %	2		
LB2 480-70957/3		1311, 7470A, 7470A		2.91 SU	750 mL		2		

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70957 Batch Start Date: 07/02/12 08:55 Batch Analyst: Radigan, Timothy

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
Batch Comment	pH of 820403 is 2.93
pH Buffer 1 ID	796757
pH Buffer 2 ID	796758
pH Buffer 3 ID	610835
First End time	7:05
pH Meter ID	566020
Room Temperature during Rotation	21.70-23.70 Degrees C
Room Temperature Thermometer ID	80531828
First Start time	15:05
TCLP Fluid 2 ID	820403
Temperature	correction factor + 0.70 Degrees C
ID number of the thermometer	80531828
Tumbler Rotations per Minute	28 RPM
Uncorrected Final Room Temperature	22.00 Celsius
Uncorrected Initial Room Temperature	23.00 Celsius
Uncorrected Room Temperature	21.00-23.00 Celsius
Uncorrected Temperature	22.00 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 71008 Batch Start Date: 07/03/12 11:15 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG_TCLP_W 00020			
LB 480-70772/1-A		7470A, 7470A		30 mL	50 mL				
MB 480-71008/2		7470A, 7470A		30 mL	50 mL				
LCS 480-71008/3		7470A, 7470A		30 mL	50 mL	0.15 mL			
480-22000-A-1-A	MR-SB-1SS-DP-12-5-5.5	7470A, 7470A	P	30 mL	50 mL				
480-22000-A-2-A	MR-SB-1SS-DP-15-4.5-5	7470A, 7470A	P	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch : 71002
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597538
Hot Block ID number	C
Potassium Persulfate Lot Number	747131
Potassium Permanganate Lot Number	770990
Oven, Bath or Block Temperature 1	95.5 Celsius
Pipette ID	MDL-3
Stannous Chloride Lot Number	792748
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	96.0 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 71009 Batch Start Date: 07/03/12 11:15 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG_TCLP_W 00020			
LB2 480-70957/3-A		7470A, 7470A		30 mL	50 mL				
MB 480-71009/2		7470A, 7470A		30 mL	50 mL				
LCS 480-71009/3		7470A, 7470A		30 mL	50 mL	0.15 mL			
480-21920-A-1-E	MR-C-1SS-DP-11-0 -0.5	7470A, 7470A	P	30 mL	50 mL				
480-21920-A-1-E MS	MR-C-1SS-DP-11-0 -0.5	7470A, 7470A	P	30 mL	50 mL	0.15 mL			
480-21920-A-1-E MSD	MR-C-1SS-DP-11-0 -0.5	7470A, 7470A	P	30 mL	50 mL	0.15 mL			
480-22003-A-1-B	MR-C-1SS-DP-15-0 -0.5	7470A, 7470A	P	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch : 71002
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597538
Hot Block ID number	C
Potassium Persulfate Lot Number	747131
Potassium Permanganate Lot Number	770990
Oven, Bath or Block Temperature 1	95.5 Celsius
Pipette ID	MDL-3
Stannous Chloride Lot Number	792748
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	96.0 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 71376 Batch Start Date: 07/06/12 12:27 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	EFD_SampleWeight	EFD_VolumeWater Add	EFD_InitialpH
LB 480-71376/1		1311, 7470A, 7470A			2000 mL	4.93 SU			
480-21994-A-1	MR-SB-1SS-DP-12-2-2.5	1311, 7470A, 7470A	P	100.25 g	2000 mL	4.94 SU	5.55 g	96 mL	7.45 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	InitialRoomTemp	FinalRoomTemp	VesselNumber
LB 480-71376/1		1311, 7470A, 7470A					23.00 Celsius	22.00 Celsius	Plastic
480-21994-A-1	MR-SB-1SS-DP-12-2-2.5	1311, 7470A, 7470A	P	3.5 mL	Yes	1.02 SU	23.00 Celsius	22.00 Celsius	Plastic

Lab Sample ID	Client Sample ID	Method Chain	Basis	FiltCompDate	FiltCompTime	LeachatepH	LeachVolume	TCLP%Solids	ExtractFluid
LB 480-71376/1		1311, 7470A, 7470A		6/7/12	10:05	4.93 SU	750 mL		1
480-21994-A-1	MR-SB-1SS-DP-12-2-2.5	1311, 7470A, 7470A	P	6/7/12	10:05	5.24 SU	750 mL	100 %	1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 71376 Batch Start Date: 07/06/12 12:27 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
Batch Comment	pH of 823529 is 4.93
pH Buffer 1 ID	796757
pH Buffer 2 ID	796758
pH Buffer 3 ID	610835
First End time	07:58
pH Meter ID	566020
Room Temperature during Rotation	21.70-24.70 Degrees C
Room Temperature Thermometer ID	80531828
First Start time	15:58
TCLP Fluid 1 ID	823529
Temperature	correction factor + 0.70 Degrees C
ID number of the thermometer	80531828
Tumbler Rotations per Minute	28 RPM
Uncorrected Final Room Temperature	22.00 Celsius
Uncorrected Initial Room Temperature	23.00 Celsius
Uncorrected Room Temperature	21.00-24.00 Celsius
Uncorrected Temperature	22.00 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 71509 Batch Start Date: 07/09/12 07:00 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG_TCLP_W 00020			
LB 480-71376/1-A		7470A, 7470A		30 mL	50 mL				
MB 480-71509/2		7470A, 7470A		30 mL	50 mL				
LCS 480-71509/3		7470A, 7470A		30 mL	50 mL	0.15 mL			
480-21994-A-1-B	MR-SB-1SS-DP-12-2-2.5	7470A, 7470A	P	30 mL	50 mL				
480-21994-A-1-B MS	MR-SB-1SS-DP-12-2-2.5	7470A, 7470A	P	30 mL	50 mL	0.15 mL			
480-21994-A-1-B MSD	MR-SB-1SS-DP-12-2-2.5	7470A, 7470A	P	30 mL	50 mL	0.15 mL			

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch : 71555
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hot Block ID number	C
Potassium Persulfate Lot Number	747131
Potassium Permanganate Lot Number	797052
Oven, Bath or Block Temperature 1	94.5 Celsius
Pipette ID	MDL-3
Stannous Chloride Lot Number	792748
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70616 Batch Start Date: 06/29/12 14:30 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00125	MEH_SRM_D071 00001		
MB 480-70616/1		7471A, 7471A		+0.5980 g	50 mL				
LCSSRM 480-70616/2		7471A, 7471A		+0.0529 g	50 mL		0.0529 g		
480-21920-A-1	MR-C-1SS-DP-11-0 -0.5	7471A, 7471A	T	+0.5878 g	50 mL				
480-21920-A-1 MS	MR-C-1SS-DP-11-0 -0.5	7471A, 7471A	T	+0.5993 g	50 mL	2 mL			
480-21920-A-1 MSD	MR-C-1SS-DP-11-0 -0.5	7471A, 7471A	T	+0.5913 g	50 mL	2 mL			
480-21994-A-1	MR-SB-1SS-DP-12- 2-2.5	7471A, 7471A	T	+0.5892 g	50 mL				
480-21994-A-2	MR-SB-1SS-DP-12- 5-5.5	7471A, 7471A	T	+0.5980 g	50 mL				
480-21994-A-3	MR-SB-1SS-DP-12- 9-9.5	7471A, 7471A	T	+0.6382 g	50 mL				
480-21994-A-4	MR-SB-1SS-DP-12- 20-20.5	7471A, 7471A	T	+0.6488 g	50 mL				
480-21994-A-5	MR-SB-1SS-DP-12- 32-32.5	7471A, 7471A	T	+0.6147 g	50 mL				
480-21994-A-6	MR-DUP-062812	7471A, 7471A	T	+0.6073 g	50 mL				
480-21994-A-7	MR-SB-1SS-DP-12- 44-44.5	7471A, 7471A	T	+0.6058 g	50 mL				
480-21994-A-8	MR-SB-1SS-DP-12- 52-52.5	7471A, 7471A	T	+0.6321 g	50 mL				
480-21994-A-9	MR-SB-1SS-DP-12- 62.5-63	7471A, 7471A	T	+0.6605 g	50 mL				
480-21994-A-11	MR-SB-1SS-DP-15- 2-2.5	7471A, 7471A	T	+0.5902 g	50 mL				
480-21994-A-12	MR-SB-1SS-DP-15- 4.5-5	7471A, 7471A	T	+0.6315 g	50 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70616 Batch Start Date: 06/29/12 14:30 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date:

Batch Notes	
Hydroxylamine Hydrochloride Lot	747243
Balance ID	25850472
Batch Comment	Prep Batch: 70558
Blank Soil Lot Number	52635
Lot # of hydrochloric acid	655020
Lot # of Nitric Acid	597583
Hot Block ID number	C
Potassium Permanganate Lot Number	770990
Oven, Bath or Block Temperature 1	93.5
Pipette ID	HGL-5
Stannous Chloride Lot Number	769081
ID number of the thermometer	A02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	94.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70803 Batch Start Date: 07/02/12 10:40 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00126	MEH_SRM_D071 00001		
MB 480-70803/1		7471A, 7471A		+0.5988 g	50 mL				
LCSSRM 480-70803/2		7471A, 7471A		+0.0530 g	50 mL		0.053 g		
480-21994-A-5	MR-SB-1SS-DP-12-32-32.5	7471A, 7471A	T	+0.6002 g	50 mL				
480-21994-A-5 MS	MR-SB-1SS-DP-12-32-32.5	7471A, 7471A	T	+0.6311 g	50 mL	2 mL			
480-21994-A-5 MSD	MR-SB-1SS-DP-12-32-32.5	7471A, 7471A	T	+0.6542 g	50 mL	2 mL			
480-22003-B-1	MR-C-1SS-DP-15-0-0.5	7471A, 7471A	T	+0.6385 g	50 mL				
480-22066-A-1	MR-SB-1SS-DP-15-8.5-9	7471A, 7471A	T	+0.6180 g	50 mL				
480-22066-A-2	MR-SB-1SS-DP-15-20-20.5	7471A, 7471A	T	+0.6655 g	50 mL				
480-22066-A-3	MR-SB-1SS-DP-15-28-28.5	7471A, 7471A	T	+0.6515 g	50 mL				
480-22066-A-4	MR-SB-1SS-DP-15-36-36.5	7471A, 7471A	T	+0.6586 g	50 mL				
480-22066-A-5	MR-DUP-062912	7471A, 7471A	T	+0.5944 g	50 mL				
480-22066-A-7	MW-SB-1SS-DP-15-44-44.5	7471A, 7471A	T	+0.5959 g	50 mL				
480-22066-A-7 MS	MW-SB-1SS-DP-15-44-44.5	7471A, 7471A	T	+0.6337 g	50 mL				
480-22066-A-7 MSD	MW-SB-1SS-DP-15-44-44.5	7471A, 7471A	T	+0.6100 g	50 mL				
480-22066-A-8	MW-SB-1SS-DP-15-60-60.5	7471A, 7471A	T	+0.6037 g	50 mL				
480-22066-A-9	MW-SB-1SS-DP-15-71.5-72	7471A, 7471A	T	+0.5934 g	50 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70803 Batch Start Date: 07/02/12 10:40 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date:

Batch Notes	
Hydroxylamine Hydrochloride Lot	747243
Balance ID	25850472
Batch Comment	Prep Batch: 70818
Blank Soil Lot Number	52635
Lot # of hydrochloric acid	792486
Lot # of Nitric Acid	597583
Hot Block ID number	C
Potassium Permanganate Lot Number	770990
Oven, Bath or Block Temperature 1	93.5
Pipette ID	HGL-5
Stannous Chloride Lot Number	769081
ID number of the thermometer	A02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	94.0 Celsius

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-21920-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-C-1SS-DP-11-0-0.5	480-21920-1
MR-SB-1SS-DP-12-2-2.5	480-21994-1
MR-SB-1SS-DP-12-5-5.5	480-21994-2
MR-SB-1SS-DP-12-9-9.5	480-21994-3
MR-SB-1SS-DP-12-20-20.5	480-21994-4
MR-SB-1SS-DP-12-32-32.5	480-21994-5
MR-DUP-062812	480-21994-6
MR-SB-1SS-DP-12-44-44.5	480-21994-7
MR-SB-1SS-DP-12-52-52.5	480-21994-8
MR-SB-1SS-DP-12-62.5-63	480-21994-9
MR-SB-1SS-DP-15-2-2.5	480-21994-11
MR-SB-1SS-DP-15-4.5-5	480-21994-12
MR-C-1SS-DP-15-0-0.5	480-22003-1
MR-SB-1SS-DP-15-8.5-9	480-22066-1
MR-SB-1SS-DP-15-20-20.5	480-22066-2
MR-SB-1SS-DP-15-28-28.5	480-22066-3
MR-SB-1SS-DP-15-36-36.5	480-22066-4
MR-DUP-062912	480-22066-5
MW-SB-1SS-DP-15-44-44.5	480-22066-7
MW-SB-1SS-DP-15-60-60.5	480-22066-8
MW-SB-1SS-DP-15-71.5-72	480-22066-9

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-21920-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-21920-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/29/2012 13:39 End Date: 06/29/2012 13:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			13:39																				
480-21920-1	1	T	13:39	X	X																		
ZZZZZZ			13:39																				
ZZZZZZ			13:39																				
ZZZZZZ			13:39																				
ZZZZZZ			13:39																				
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ZZZZZZ			13:39																				
ZZZZZZ			13:39																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/29/2012 13:57 End Date: 07/02/2012 11:40

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
480-21994-1	1	T	13:57	X	X																		
480-21994-2	1	T	13:57	X	X																		
480-21994-3	1	T	13:57	X	X																		
480-21994-4	1	T	13:57	X	X																		
480-21994-5	1	T	13:57	X	X																		
480-21994-6	1	T	13:57	X	X																		
480-21994-7	1	T	13:57	X	X																		
480-21994-8	1	T	13:57	X	X																		
480-21994-9	1	T	13:57	X	X																		
480-21994-11	1	T	13:57	X	X																		
480-21994-12	1	T	13:57	X	X																		
480-21994-5 MS	1	T	11:40	X	X																		
480-21994-5 MSD	1	T	11:40	X	X																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 07/02/2012 12:43 End Date: 07/02/2012 12:46

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			12:43																				
ZZZZZZ			12:43																				
ZZZZZZ			12:43																				
ZZZZZZ			12:43																				
ZZZZZZ			12:43																				
ZZZZZZ			12:43																				
480-22066-1	1	T	12:43	X	X																		
480-22066-2	1	T	12:43	X	X																		
480-22066-3	1	T	12:43	X	X																		
480-22066-4	1	T	12:43	X	X																		
480-22066-5	1	T	12:43	X	X																		
480-22066-7	1	T	12:43	X	X																		
480-22066-7 MS	1	T	12:43	X	X																		
480-22066-7 MSD	1	T	12:43	X	X																		
480-22066-8	1	T	12:46	X	X																		
480-22066-9	1	T	12:46	X	X																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 07/03/2012 12:00 End Date: 07/03/2012 12:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
480-22003-1	1	T	12:00	X	X																		
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
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ZZZZZZ			12:00																				
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Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70610 Batch Start Date: 06/29/12 13:39 Batch Analyst: Robitaille, Zach L

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-21920-A-1	MR-C-1SS-DP-11-0 -0.5	Moisture	T	2	4.35 g	13.56 g	13.26 g		

Batch Notes	
Batch Comment	pp-bsl-0311 4.35
Date samples were placed in the oven	06/29/12
Time samples were place in the oven	1339
Date samples were removed from oven	06/29/12
Time Samples were removed from oven	1635

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70615 Batch Start Date: 06/29/12 13:57 Batch Analyst: Robitaille, Zach L

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-21994-A-1	MR-SB-1SS-DP-12-2-2.5	Moisture	T	1	4.45 g	13.57 g	13.21 g		
480-21994-A-2	MR-SB-1SS-DP-12-5-5.5	Moisture	T	2	4.45 g	12.61 g	11.48 g		
480-21994-A-3	MR-SB-1SS-DP-12-9-9.5	Moisture	T	3	4.45 g	14.18 g	11.73 g		
480-21994-A-4	MR-SB-1SS-DP-12-20-20.5	Moisture	T	4	4.45 g	12.11 g	10.52 g		
480-21994-A-5	MR-SB-1SS-DP-12-32-32.5	Moisture	T	5	4.45 g	20.03 g	16.74 g		
480-21994-A-6	MR-DUP-062812	Moisture	T	6	4.45 g	17.01 g	14.11 g		
480-21994-A-7	MR-SB-1SS-DP-12-44-44.5	Moisture	T	7	4.45 g	17.07 g	14.52 g		
480-21994-A-8	MR-SB-1SS-DP-12-52-52.5	Moisture	T	8	4.45 g	17.31 g	14.09 g		
480-21994-A-9	MR-SB-1SS-DP-12-62.5-63	Moisture	T	9	4.45 g	13.62 g	12.09 g		
480-21994-A-11	MR-SB-1SS-DP-15-2-2.5	Moisture	T	10	4.45 g	17.23 g	16.73 g		
480-21994-A-12	MR-SB-1SS-DP-15-4.5-5	Moisture	T	11	4.45 g	13.56 g	11.92 g		
480-21994-A-5 MS	MR-SB-1SS-DP-12-32-32.5	Moisture	T	5	4.45 g	20.03 g	16.74 g		
480-21994-A-5 MSD	MR-SB-1SS-DP-12-32-32.5	Moisture	T	5	4.45 g	20.03 g	16.74 g		

Batch Notes	
Batch Comment	pp-bsl-0311 4.45
Date samples were placed in the oven	06/29/12
Time samples were place in the oven	1357
Date samples were removed from oven	7/2/12
Time Samples were removed from oven	0930

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 70843 Batch Start Date: 07/02/12 12:43 Batch Analyst: Kinecki, Kenneth

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-22066-A-1	MR-SB-1SS-DP-15-8.5-9	Moisture	T	7	4.35 g	13.09 g	11.36 g		
480-22066-A-2	MR-SB-1SS-DP-15-20-20.5	Moisture	T	8	4.35 g	15.78 g	12.66 g		
480-22066-A-3	MR-SB-1SS-DP-15-28-28.5	Moisture	T	9	4.35 g	17.91 g	14.63 g		
480-22066-A-4	MR-SB-1SS-DP-15-36-36.5	Moisture	T	10	4.35 g	15.74 g	13.21 g		
480-22066-A-5	MR-DUP-062912	Moisture	T	11	4.35 g	14.66 g	12.50 g		
480-22066-A-7	MW-SB-1SS-DP-15-44-44.5	Moisture	T	12	4.35 g	16.65 g	13.95 g		
480-22066-A-7 MS	MW-SB-1SS-DP-15-44-44.5	Moisture	T	12	4.35 g	16.65 g	13.95 g		
480-22066-A-7 MSD	MW-SB-1SS-DP-15-44-44.5	Moisture	T	12	4.35 g	16.65 g	13.95 g		
480-22066-A-8	MW-SB-1SS-DP-15-60-60.5	Moisture	T	13	4.35 g	12.38 g	10.26 g		
480-22066-A-9	MW-SB-1SS-DP-15-71.5-72	Moisture	T	14	4.35 g	18.57 g	16.52 g		

Batch Notes	
Batch Comment	PD-FH-05 4.35
Date samples were placed in the oven	07/02/12
Time samples were place in the oven	1300
Date samples were removed from oven	7/02/12
Time Samples were removed from oven	1608

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-21920-1

SDG No.:

Batch Number: 71047 Batch Start Date: 07/03/12 12:00 Batch Analyst: Robitaille, Zach L

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-22003-A-1	MR-C-1SS-DP-15-0 -0.5	Moisture	T	1	4.35 g	16.91 g	16.15 g		

Batch Notes	
Batch Comment	pp-fh-05012 4.35
Date samples were placed in the oven	07/03/12
Time samples were place in the oven	1200
Date samples were removed from oven	07/05/12
Time Samples were removed from oven	0910

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 6/27/12	Chain of Custody Number: 223662
Address: 110 Commerce Drive	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 1 of 3
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Carlie Mino	Lab Contact: Brian Fischer	
Project Name and Location (State): Mereco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Composite	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TCLP Hg 1470A	Special Instructions/ Conditions of Receipt
MR-C-ISS-DP-11-0-0.5	6/27/12	8:00					X	X						X	

IDLC 6-27-12

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other standard

QC Requirements (Specify):

1. Relinquished By: CM	Date: 6/27/12	Time: 1645	1. Received By: [signature]	Date: 6/27/12	Time: 1645
2. Relinquished By: [signature]	Date: 6-27-12	Time: 1700	2. Received By: [signature]	Date: ~~6-27-12~~	Time: 0900
3. Relinquished By	Date	Time	3. Received By	Date: 6-28-12	Time

Comments: 2.0453

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TA-424 (1C7)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 6/28/12	Chain of Custody Number: 223659
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-674-4700 / 201-236-1607	Lab Number: —	Page 2 of 3
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Catie Mino; Lab Contact: Brian Fischer		
Project Name and Location (State): Mereco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TCLP Mercury 7470A	Special Instructions/ Conditions of Receipt
MR-SB-ISS-DP-12-5-5.5	6/28/12	8:05				X	X						X	
MR-SB-ISS-DP-15-4.5-5	6/28/12	16:00				X	X						X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 3 day

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/28/12	16:20	1. Received By: [signature]	6/28/12	1620
2. Relinquished By: [signature]	6/28/12	1700	2. Received By: [signature]	6-28-12	0800
3. Relinquished By:			3. Received By:		

Comments

3.6 #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

07/18/2012

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Willams	Date: 6/28/12	Chain of Custody Number: 223665
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 3 of 3
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Catie Mino; Lab Contact: Brian Fischer		
Project Name and Location (State): Mereco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Concrete	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): Mercury SEP A 7471A	X TCLP Mercury 7470A	Special Instructions/ Conditions of Receipt
MR-C-ISS-DP-15-0-0.5	6/28/12	15:15					X	X						X	X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/28/12	16:20	1. Received By: [signature]	6/28/12	1620
2. Relinquished By: [signature]	6/28/12	1700	2. Received By: [signature]	6-28-12	6800
3. Relinquished By:			3. Received By:		

Comments

3.6 #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 6/28/12	Chain of Custody Number: 223660
Address: 110 Commerce Drive	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 1 of 3
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Catie Mino; Lab Contact: Brian Fischer		
Project Name and Location (State): Mereco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Mercury SW-846 7471A	TCLP Mercury 7470A	Special Instructions/ Conditions of Receipt
MR-SB-ISS-DP-12-2-2.5	6/28/12	8:00				X	X						X		
MR-SB-ISS-DP-12-5-5.5	6/28/12	8:05				X	X						X		
MR-SB-ISS-DP-12-9-9.5	6/28/12	8:10				X	X						X		
MR-SB-ISS-DP-12-20-20.5	6/28/12	8:25				X	X						X		
MR-SB-ISS-DP-12-32-32.5	6/28/12	8:55				X	X						X		
MR-DUP-062812	6/28/12	99:99				X	X						X		MS/MSD
MR-SB-ISS-DP-12-44-44.5	6/28/12	9:15				X	X						X		
MR-SB-ISS-DP-12-52-52.5	6/28/12	13:10				X	X						X		
MR-SB-ISS-DP-12-62.5-63	6/28/12	13:40				X	X						X		
MR-FB-062812	6/28/12	15:00		X		~~X~~	~~X~~		X				X	X	
MR-SB-ISS-DP-15-2-2.5	6/28/12	15:45				X	X						X		
MR-SB-ISS-DP-15-4.5-5	6/28/12	16:00				X	X						X		

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/28/12	16:20	1. Received By: [signature]	6/28/12	1620
2. Relinquished By: [signature]	6/28/12	1700	2. Received By: [signature]	6-28-12	0930
3. Relinquished By:			3. Received By:		

Comments

3.6 #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 6/29/12	Chain of Custody Number: 228175
Address: 110 Commerce Drive	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 1 of
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Katie Mino	Lab Contact: Brian Fischer	
Project Name and Location (State): Mercero, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed): Mercury USEPA SW-846 7471A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Mercury USEPA SW-846 7471A	Special Instructions/ Conditions of Receipt
MR-SB-155-DP-15-8.5-9	6/29/12	7:30				X	X						X	
MR-SB-155-DP-15-20-20.5	6/29/12	7:45				X	X						X	
MR-SB-155-DP-15-28-28.5	6/29/12	8:00				X	X						X	
MR-SB-155-DP-15-36-36.5	6/29/12	8:10				X	X						X	
MR-DUP-062912	6/29/12	99:99				X	X						X	
MR-FB-062912	6/29/12	8:20		X					X				X	
MR-SB 155-DP-15-44-44.5	6/29/12	8:25				X	X						X	MS/MSD
MR-SB-155-DP-15-60-60.5	6/29/12	9:00				X	X						X	
MR-SB-155-DP-15-71.5-72	6/29/12	9:30				X	X						X	

TDC 6-29-12

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	6/29/12	10:30	1. Received By	6-29-12	1030
2. Relinquished By	6-29-12	1700	2. Received By	6/30/12	0900
3. Relinquished By			3. Received By		

Comments: 20 #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21920-1

Login Number: 21920

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21920-1

Login Number: 21994

List Source: TestAmerica Buffalo

List Number: 1

Creator: May, Joel M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BROWN AND CALDWELL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21920-1

Login Number: 22000

List Source: TestAmerica Buffalo

List Number: 1

Creator: May, Joel M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BROWN AND CALDWELL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21920-1

Login Number: 22003

List Source: TestAmerica Buffalo

List Number: 1

Creator: May, Joel M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BROWN AND CALDWELL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-21920-1

Login Number: 22066

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robitaille, Zach L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Sampling Company provided.		
Samples received within 48 hours of sampling.		
Samples requiring field filtration have been filtered in the field.		
Chlorine Residual checked.		

ANALYTICAL REPORT

Job Number: 480-22320-1

Job Description: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, NJ 07401

Attention: Ms. Carolyn A Spinapolice

Approved for release.
Joe Giacomazza
Project Administrator
7/16/2012 5:09 PM

Designee for
Brian Fischer
Project Manager II
brian.fischer@testamericainc.com
07/16/2012

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Job Narrative
480-22320-1

Receipt
The samples were received on 7/10/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Metals
No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-22320-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-22320-1	MR-GW-1SS-DP-13-18-22-T	Water	07/09/2012 1528	07/10/2012 0900
480-22320-2	MR-GW-1SS-DP-13-18-22-D	Water	07/09/2012 1528	07/10/2012 0900
480-22320-3	MR-GW-1SS-DP-13-28-32-T	Water	07/09/2012 1555	07/10/2012 0900
480-22320-4	MR-GW-1SS-DP-13-28-32-D	Water	07/09/2012 1555	07/10/2012 0900
480-22360-1	MR-GW-1SS-DP-13-38-42-T	Water	07/10/2012 0840	07/11/2012 0900
480-22360-2	MR-GW-1SS-DP-13-38-42-D	Water	07/10/2012 0840	07/11/2012 0900
480-22360-3	MR-GW-1SS-DP-13-48-52-T	Water	07/10/2012 1050	07/11/2012 0900
480-22360-4	MR-GW-1SS-DP-13-48-52-D	Water	07/10/2012 1050	07/11/2012 0900
480-22360-5	MR-GW-DUP071012-T	Water	07/10/2012 0000	07/11/2012 0900
480-22360-6	MR-GW-DUP071012-D	Water	07/10/2012 0000	07/11/2012 0900
480-22360-7	MR-GW-1SS-DP-13-58-62-T	Water	07/10/2012 1225	07/11/2012 0900
480-22360-8	MR-GW-1SS-DP-13-58-62-D	Water	07/10/2012 1225	07/11/2012 0900
480-22360-9	MR-GW-1SS-DP-10-22-26-T	Water	07/10/2012 1420	07/11/2012 0900
480-22360-9MS	MR-GW-1SS-DP-10-22-26-T	Water	07/10/2012 1420	07/11/2012 0900
480-22360-9MSD	MR-GW-1SS-DP-10-22-26-T	Water	07/10/2012 1420	07/11/2012 0900
480-22360-10	MR-GW-1SS-DP-10-22-26-D	Water	07/10/2012 1420	07/11/2012 0900
480-22360-10MS	MR-GW-1SS-DP-10-22-26-D	Water	07/10/2012 1420	07/11/2012 0900
480-22360-10MSD	MR-GW-1SS-DP-10-22-26-D	Water	07/10/2012 1420	07/11/2012 0900
480-22360-11	MR-GW-1SS-DP-10-32-36-T	Water	07/10/2012 1450	07/11/2012 0900
480-22360-12	MR-GW-1SS-DP-10-32-36-D	Water	07/10/2012 1450	07/11/2012 0900
480-22360-13	MR-GW-1SS-DP-10-12-16-T	Water	07/10/2012 1505	07/11/2012 0900
480-22360-14	MR-GW-1SS-DP-10-12-16-D	Water	07/10/2012 1505	07/11/2012 0900
480-22360-15	MR-GW-1SS-DP-10-42-46-T	Water	07/10/2012 1615	07/11/2012 0900
480-22360-16	MR-GW-1SS-DP-10-42-46-D	Water	07/10/2012 1615	07/11/2012 0900

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-22320-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-22320-1	**MR-GW-1SS-DP-13-18-22-T**					
Mercury, Total		5.2		0.20	ug/L	7470A
480-22320-2	**MR-GW-1SS-DP-13-18-22-D**					
Dissolved						
Mercury, Dissolved		1.6		0.20	ug/L	7470A
480-22360-1	**MR-GW-1SS-DP-13-38-42-T**					
Mercury, Total		1.9		0.20	ug/L	7470A
480-22360-9	**MR-GW-1SS-DP-10-22-26-T**					
Mercury, Total		2.1		0.20	ug/L	7470A
480-22360-10	**MR-GW-1SS-DP-10-22-26-D**					
Dissolved						
Mercury, Dissolved		0.25		0.20	ug/L	7470A
480-22360-11	**MR-GW-1SS-DP-10-32-36-T**					
Mercury, Total		0.63		0.20	ug/L	7470A
480-22360-13	**MR-GW-1SS-DP-10-12-16-T**					
Mercury, Total		4.6		0.20	ug/L	7470A
480-22360-14	**MR-GW-1SS-DP-10-12-16-D**					
Dissolved						
Mercury, Dissolved		3.0		0.20	ug/L	7470A
480-22360-15	**MR-GW-1SS-DP-10-42-46-T**					
Mercury, Total		0.40		0.20	ug/L	7470A

METHOD SUMMARY

Client: Brown and Caldwell

Job Number: 480-22320-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Brown and Caldwell

Job Number: 480-22320-1

Method	Analyst	Analyst ID
SW846 7470A	Kacalski, Jason	JRK
SW846 7470A	Mantell, Jaclyn	JM

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-13-18-22-T**

Lab Sample ID: 480-22320-1

Client Matrix: Water

Date Sampled: 07/09/2012 1528

Date Received: 07/10/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-71979	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-71898	Lab File ID:	H07112W2.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/11/2012 1525			Final Weight/Volume:	50 mL
Prep Date:	07/11/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	5.2		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-13-18-22-D**

Lab Sample ID: 480-22320-2

Client Matrix: Water

Date Sampled: 07/09/2012 1528

Date Received: 07/10/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-71970	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-71899	Lab File ID:	J07112D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/11/2012 1258			Final Weight/Volume:	50 mL
Prep Date:	07/11/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	1.6		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-13-28-32-T**

Lab Sample ID: 480-22320-3

Client Matrix: Water

Date Sampled: 07/09/2012 1555

Date Received: 07/10/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-71979	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-71898	Lab File ID:	H07112W2.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/11/2012 1526			Final Weight/Volume:	50 mL
Prep Date:	07/11/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-13-28-32-D**

Lab Sample ID: 480-22320-4

Client Matrix: Water

Date Sampled: 07/09/2012 1555

Date Received: 07/10/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-71970	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-71899	Lab File ID:	J07112D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/11/2012 1259			Final Weight/Volume:	50 mL
Prep Date:	07/11/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-13-38-42-T**

Lab Sample ID: 480-22360-1

Client Matrix: Water

Date Sampled: 07/10/2012 0840

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1239			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	1.9		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-13-38-42-D**

Lab Sample ID: 480-22360-2

Client Matrix: Water

Date Sampled: 07/10/2012 0840

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1236			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-13-48-52-T**

Lab Sample ID: 480-22360-3

Client Matrix: Water

Date Sampled: 07/10/2012 1050

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1241			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-13-48-52-D**

Lab Sample ID: 480-22360-4

Client Matrix: Water

Date Sampled: 07/10/2012 1050

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1239			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-DUP071012-T**

Lab Sample ID: 480-22360-5

Client Matrix: Water

Date Sampled: 07/10/2012 0000

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1243			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-DUP071012-D**

Lab Sample ID: 480-22360-6

Client Matrix: Water

Date Sampled: 07/10/2012 0000

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1241			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-13-58-62-T**

Lab Sample ID: 480-22360-7

Client Matrix: Water

Date Sampled: 07/10/2012 1225

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1244			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-13-58-62-D**

Lab Sample ID: 480-22360-8

Client Matrix: Water

Date Sampled: 07/10/2012 1225

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1242			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-10-22-26-T**

Lab Sample ID: 480-22360-9

Client Matrix: Water

Date Sampled: 07/10/2012 1420

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1246			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	2.1		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-10-22-26-D**

Lab Sample ID: 480-22360-10

Client Matrix: Water

Date Sampled: 07/10/2012 1420

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1245			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	0.25		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-10-32-36-T**

Lab Sample ID: 480-22360-11

Client Matrix: Water

Date Sampled: 07/10/2012 1450

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1256			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.63		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-10-32-36-D**

Lab Sample ID: 480-22360-12

Client Matrix: Water

Date Sampled: 07/10/2012 1450

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1255			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-10-12-16-T**

Lab Sample ID: 480-22360-13

Client Matrix: Water

Date Sampled: 07/10/2012 1505

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1258			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	4.6		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-10-12-16-D**

Lab Sample ID: 480-22360-14

Client Matrix: Water

Date Sampled: 07/10/2012 1505

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1257			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	3.0		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-10-42-46-T**

Lab Sample ID: 480-22360-15

Client Matrix: Water

Date Sampled: 07/10/2012 1615

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1300			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.40		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Client Sample ID: **MR-GW-1SS-DP-10-42-46-D**

Lab Sample ID: 480-22360-16

Client Matrix: Water

Date Sampled: 07/10/2012 1615

Date Received: 07/11/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1259			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22320-1

Method Blank - Batch: 480-71898

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-71898/1-A	Analysis Batch:	480-71979	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-71898	Lab File ID:	H07112W2.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/11/2012 1505	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/11/2012 0855				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-71898

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-71898/2-A	Analysis Batch:	480-71979	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-71898	Lab File ID:	H07112W2.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/11/2012 1507	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/11/2012 0855				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.78	102	80 - 120	

Client: Brown and Caldwell

Job Number: 480-22320-1

Method Blank - Batch: 480-71899

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-71899/1-A	Analysis Batch:	480-71970	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-71899	Lab File ID:	J07112D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/11/2012 1237	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/11/2012 0855				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Dissolved	ND		0.20

Lab Control Sample - Batch: 480-71899

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-71899/2-A	Analysis Batch:	480-71970	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-71899	Lab File ID:	J07112D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/11/2012 1239	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/11/2012 0855				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Dissolved	6.67	6.72	101	80 - 120	

Client: Brown and Caldwell

Job Number: 480-22320-1

Method Blank - Batch: 480-72043

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-72043/1-A	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1236	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-72043

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-72043/2-A	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1238	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.77	101	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-72043

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-22360-9	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1249			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				
Leach Date:	N/A				

MSD Lab Sample ID:	480-22360-9	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1251			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Total	107	107	75 - 125	0	20		

Client: Brown and Caldwell

Job Number: 480-22320-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-72043

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-22360-9	Units: ug/L	MSD Lab Sample ID:	480-22360-9
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	07/12/2012 1249		Analysis Date:	07/12/2012 1251
Prep Date:	07/12/2012 0840		Prep Date:	07/12/2012 0840
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury, Total	2.1	6.67	6.67	9.25	9.28

Serial Dilution - Batch: 480-72043

Method: 7470A
Preparation: 7470A

Lab Sample ID:	480-22360-9	Analysis Batch:	480-72162	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72043	Lab File ID:	H07122W1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1248	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0840				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Total	2.1	1.95	NC	10	

Client: Brown and Caldwell

Job Number: 480-22320-1

Method Blank - Batch: 480-72069

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	MB 480-72057/5-B	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1233	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Dissolved	ND		0.20

Lab Control Sample - Batch: 480-72069

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	LCS 480-72057/6-B	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1235	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Dissolved	6.67	6.68	100	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-72069

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	480-22360-10	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1248			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				
Leach Date:	N/A				

MSD Lab Sample ID:	480-22360-10	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1250			Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Dissolved	103	102	75 - 125	1	20		

Client: Brown and Caldwell

Job Number: 480-22320-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-72069

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	480-22360-10	Units: ug/L	MSD Lab Sample ID:	480-22360-10
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	07/12/2012 1248		Analysis Date:	07/12/2012 1250
Prep Date:	07/12/2012 0920		Prep Date:	07/12/2012 0920
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury, Dissolved	0.25	6.67	6.67	7.10	7.03

Serial Dilution - Batch: 480-72069

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	480-22360-10	Analysis Batch:	480-72152	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72069	Lab File ID:	J07122D1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/12/2012 1247	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/12/2012 0920				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Dissolved	0.25	ND	NC	10	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Brown and Caldwell

Job Number: 480-22320-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-71898					
LCS 480-71898/2-A	Lab Control Sample	T	Water	7470A	
MB 480-71898/1-A	Method Blank	T	Water	7470A	
480-22320-1	MR-GW-1SS-DP-13-18-22-T	T	Water	7470A	
480-22320-3	MR-GW-1SS-DP-13-28-32-T	T	Water	7470A	
Prep Batch: 480-71899					
LCS 480-71899/2-A	Lab Control Sample	T	Water	7470A	
MB 480-71899/1-A	Method Blank	T	Water	7470A	
480-22320-2	MR-GW-1SS-DP-13-18-22-D	D	Water	7470A	
480-22320-4	MR-GW-1SS-DP-13-28-32-D	D	Water	7470A	
Analysis Batch:480-71970					
LCS 480-71899/2-A	Lab Control Sample	T	Water	7470A	480-71899
MB 480-71899/1-A	Method Blank	T	Water	7470A	480-71899
480-22320-2	MR-GW-1SS-DP-13-18-22-D	D	Water	7470A	480-71899
480-22320-4	MR-GW-1SS-DP-13-28-32-D	D	Water	7470A	480-71899
Analysis Batch:480-71979					
LCS 480-71898/2-A	Lab Control Sample	T	Water	7470A	480-71898
MB 480-71898/1-A	Method Blank	T	Water	7470A	480-71898
480-22320-1	MR-GW-1SS-DP-13-18-22-T	T	Water	7470A	480-71898
480-22320-3	MR-GW-1SS-DP-13-28-32-T	T	Water	7470A	480-71898
Prep Batch: 480-72043					
LCS 480-72043/2-A	Lab Control Sample	T	Water	7470A	
MB 480-72043/1-A	Method Blank	T	Water	7470A	
480-22360-1	MR-GW-1SS-DP-13-38-42-T	T	Water	7470A	
480-22360-3	MR-GW-1SS-DP-13-48-52-T	T	Water	7470A	
480-22360-5	MR-GW-DUP071012-T	T	Water	7470A	
480-22360-7	MR-GW-1SS-DP-13-58-62-T	T	Water	7470A	
480-22360-9	MR-GW-1SS-DP-10-22-26-T	T	Water	7470A	
480-22360-9MS	Matrix Spike	T	Water	7470A	
480-22360-9MSD	Matrix Spike Duplicate	T	Water	7470A	
480-22360-11	MR-GW-1SS-DP-10-32-36-T	T	Water	7470A	
480-22360-13	MR-GW-1SS-DP-10-12-16-T	T	Water	7470A	
480-22360-15	MR-GW-1SS-DP-10-42-46-T	T	Water	7470A	

Client: Brown and Caldwell

Job Number: 480-22320-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-72069					
LCS 480-72057/6-B	Lab Control Sample	D	Water	7470A	
MB 480-72057/5-B	Method Blank	D	Water	7470A	
480-22360-2	MR-GW-1SS-DP-13-38-42-D	D	Water	7470A	
480-22360-4	MR-GW-1SS-DP-13-48-52-D	D	Water	7470A	
480-22360-6	MR-GW-DUP071012-D	D	Water	7470A	
480-22360-8	MR-GW-1SS-DP-13-58-62-D	D	Water	7470A	
480-22360-10	MR-GW-1SS-DP-10-22-26-D	D	Water	7470A	
480-22360-10MS	Matrix Spike	D	Water	7470A	
480-22360-10MSD	Matrix Spike Duplicate	D	Water	7470A	
480-22360-12	MR-GW-1SS-DP-10-32-36-D	D	Water	7470A	
480-22360-14	MR-GW-1SS-DP-10-12-16-D	D	Water	7470A	
480-22360-16	MR-GW-1SS-DP-10-42-46-D	D	Water	7470A	
Analysis Batch:480-72152					
LCS 480-72057/6-B	Lab Control Sample	D	Water	7470A	480-72069
MB 480-72057/5-B	Method Blank	D	Water	7470A	480-72069
480-22360-2	MR-GW-1SS-DP-13-38-42-D	D	Water	7470A	480-72069
480-22360-4	MR-GW-1SS-DP-13-48-52-D	D	Water	7470A	480-72069
480-22360-6	MR-GW-DUP071012-D	D	Water	7470A	480-72069
480-22360-8	MR-GW-1SS-DP-13-58-62-D	D	Water	7470A	480-72069
480-22360-10	MR-GW-1SS-DP-10-22-26-D	D	Water	7470A	480-72069
480-22360-10MS	Matrix Spike	D	Water	7470A	480-72069
480-22360-10MSD	Matrix Spike Duplicate	D	Water	7470A	480-72069
480-22360-12	MR-GW-1SS-DP-10-32-36-D	D	Water	7470A	480-72069
480-22360-14	MR-GW-1SS-DP-10-12-16-D	D	Water	7470A	480-72069
480-22360-16	MR-GW-1SS-DP-10-42-46-D	D	Water	7470A	480-72069
Analysis Batch:480-72162					
LCS 480-72043/2-A	Lab Control Sample	T	Water	7470A	480-72043
MB 480-72043/1-A	Method Blank	T	Water	7470A	480-72043
480-22360-1	MR-GW-1SS-DP-13-38-42-T	T	Water	7470A	480-72043
480-22360-3	MR-GW-1SS-DP-13-48-52-T	T	Water	7470A	480-72043
480-22360-5	MR-GW-DUP071012-T	T	Water	7470A	480-72043
480-22360-7	MR-GW-1SS-DP-13-58-62-T	T	Water	7470A	480-72043
480-22360-9	MR-GW-1SS-DP-10-22-26-T	T	Water	7470A	480-72043
480-22360-9MS	Matrix Spike	T	Water	7470A	480-72043
480-22360-9MSD	Matrix Spike Duplicate	T	Water	7470A	480-72043
480-22360-11	MR-GW-1SS-DP-10-32-36-T	T	Water	7470A	480-72043
480-22360-13	MR-GW-1SS-DP-10-12-16-T	T	Water	7470A	480-72043
480-22360-15	MR-GW-1SS-DP-10-42-46-T	T	Water	7470A	480-72043

Report Basis

D = Dissolved

T = Total

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-22320-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Client: Brown and Caldwell

Job Number: 480-22320-1

Laboratory Chronicle

Lab ID: 480-22320-1 **Client ID:** MR-GW-1SS-DP-13-18-22-T

Sample Date/Time: 07/09/2012 15:28 Received Date/Time: 07/10/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22320-A-1-A		480-71979	480-71898	07/11/2012 08:55	1	TAL BUF	SS
A:7470A	480-22320-A-1-A		480-71979	480-71898	07/11/2012 15:25	1	TAL BUF	JRK

Lab ID: 480-22320-2 **Client ID:** MR-GW-1SS-DP-13-18-22-D

Sample Date/Time: 07/09/2012 15:28 Received Date/Time: 07/10/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22320-A-2-A		480-71970	480-71899	07/11/2012 08:55	1	TAL BUF	SS
A:7470A	480-22320-A-2-A		480-71970	480-71899	07/11/2012 12:58	1	TAL BUF	JM

Lab ID: 480-22320-3 **Client ID:** MR-GW-1SS-DP-13-28-32-T

Sample Date/Time: 07/09/2012 15:55 Received Date/Time: 07/10/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22320-A-3-A		480-71979	480-71898	07/11/2012 08:55	1	TAL BUF	SS
A:7470A	480-22320-A-3-A		480-71979	480-71898	07/11/2012 15:26	1	TAL BUF	JRK

Lab ID: 480-22320-4 **Client ID:** MR-GW-1SS-DP-13-28-32-D

Sample Date/Time: 07/09/2012 15:55 Received Date/Time: 07/10/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22320-A-4-A		480-71970	480-71899	07/11/2012 08:55	1	TAL BUF	SS
A:7470A	480-22320-A-4-A		480-71970	480-71899	07/11/2012 12:59	1	TAL BUF	JM

Lab ID: 480-22360-1 **Client ID:** MR-GW-1SS-DP-13-38-42-T

Sample Date/Time: 07/10/2012 08:40 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-1-A		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22360-A-1-A		480-72162	480-72043	07/12/2012 12:39	1	TAL BUF	JRK

Lab ID: 480-22360-2 **Client ID:** MR-GW-1SS-DP-13-38-42-D

Sample Date/Time: 07/10/2012 08:40 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-2-A		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22360-A-2-A		480-72152	480-72069	07/12/2012 12:36	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22320-1

Laboratory Chronicle

Lab ID: 480-22360-3 **Client ID:** MR-GW-1SS-DP-13-48-52-T

Sample Date/Time: 07/10/2012 10:50 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-3-A		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22360-A-3-A		480-72162	480-72043	07/12/2012 12:41	1	TAL BUF	JRK

Lab ID: 480-22360-4 **Client ID:** MR-GW-1SS-DP-13-48-52-D

Sample Date/Time: 07/10/2012 10:50 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-4-A		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22360-A-4-A		480-72152	480-72069	07/12/2012 12:39	1	TAL BUF	JRK

Lab ID: 480-22360-5 **Client ID:** MR-GW-DUP071012-T

Sample Date/Time: 07/10/2012 00:00 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-5-A		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22360-A-5-A		480-72162	480-72043	07/12/2012 12:43	1	TAL BUF	JRK

Lab ID: 480-22360-6 **Client ID:** MR-GW-DUP071012-D

Sample Date/Time: 07/10/2012 00:00 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-6-A		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22360-A-6-A		480-72152	480-72069	07/12/2012 12:41	1	TAL BUF	JRK

Lab ID: 480-22360-7 **Client ID:** MR-GW-1SS-DP-13-58-62-T

Sample Date/Time: 07/10/2012 12:25 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-7-A		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22360-A-7-A		480-72162	480-72043	07/12/2012 12:44	1	TAL BUF	JRK

Lab ID: 480-22360-8 **Client ID:** MR-GW-1SS-DP-13-58-62-D

Sample Date/Time: 07/10/2012 12:25 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-8-A		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22360-A-8-A		480-72152	480-72069	07/12/2012 12:42	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22320-1

Laboratory Chronicle

Lab ID: 480-22360-9 **Client ID:** MR-GW-1SS-DP-10-22-26-T

Sample Date/Time: 07/10/2012 14:20 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-9-A		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22360-A-9-A		480-72162	480-72043	07/12/2012 12:46	1	TAL BUF	JRK

Lab ID: 480-22360-9 **Client ID:** MR-GW-1SS-DP-10-22-26-T

Sample Date/Time: 07/10/2012 14:20 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-9-B MS		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22360-A-9-B MS		480-72162	480-72043	07/12/2012 12:49	1	TAL BUF	JRK

Lab ID: 480-22360-9 **Client ID:** MR-GW-1SS-DP-10-22-26-T

Sample Date/Time: 07/10/2012 14:20 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-9-C MSD		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22360-A-9-C MSD		480-72162	480-72043	07/12/2012 12:51	1	TAL BUF	JRK

Lab ID: 480-22360-9 SD **Client ID:** MR-GW-1SS-DP-10-22-26-T

Sample Date/Time: 07/10/2012 14:20 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-9-A SD ^5		480-72162	480-72043	07/12/2012 08:40	5	TAL BUF	JRK
A:7470A	480-22360-A-9-A SD ^5		480-72162	480-72043	07/12/2012 12:48	5	TAL BUF	JRK

Lab ID: 480-22360-10 **Client ID:** MR-GW-1SS-DP-10-22-26-D

Sample Date/Time: 07/10/2012 14:20 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-10-A		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22360-A-10-A		480-72152	480-72069	07/12/2012 12:45	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22320-1

Laboratory Chronicle

Lab ID: 480-22360-10 **Client ID:** MR-GW-1SS-DP-10-22-26-D

Sample Date/Time: 07/10/2012 14:20 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-10-B MS		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22360-A-10-B MS		480-72152	480-72069	07/12/2012 12:48	1	TAL BUF	JRK

Lab ID: 480-22360-10 **Client ID:** MR-GW-1SS-DP-10-22-26-D

Sample Date/Time: 07/10/2012 14:20 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-10-C MSD		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22360-A-10-C MSD		480-72152	480-72069	07/12/2012 12:50	1	TAL BUF	JRK

Lab ID: 480-22360-10 SD **Client ID:** MR-GW-1SS-DP-10-22-26-D

Sample Date/Time: 07/10/2012 14:20 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-10-A SD ^5		480-72152	480-72069	07/12/2012 09:20	5	TAL BUF	JRK
A:7470A	480-22360-A-10-A SD ^5		480-72152	480-72069	07/12/2012 12:47	5	TAL BUF	JRK

Lab ID: 480-22360-11 **Client ID:** MR-GW-1SS-DP-10-32-36-T

Sample Date/Time: 07/10/2012 14:50 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-11-A		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22360-A-11-A		480-72162	480-72043	07/12/2012 12:56	1	TAL BUF	JRK

Lab ID: 480-22360-12 **Client ID:** MR-GW-1SS-DP-10-32-36-D

Sample Date/Time: 07/10/2012 14:50 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-12-A		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22360-A-12-A		480-72152	480-72069	07/12/2012 12:55	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22320-1

Laboratory Chronicle

Lab ID: 480-22360-13 **Client ID:** MR-GW-1SS-DP-10-12-16-T

Sample Date/Time: 07/10/2012 15:05 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-13-A		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22360-A-13-A		480-72162	480-72043	07/12/2012 12:58	1	TAL BUF	JRK

Lab ID: 480-22360-14 **Client ID:** MR-GW-1SS-DP-10-12-16-D

Sample Date/Time: 07/10/2012 15:05 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-14-A		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22360-A-14-A		480-72152	480-72069	07/12/2012 12:57	1	TAL BUF	JRK

Lab ID: 480-22360-15 **Client ID:** MR-GW-1SS-DP-10-42-46-T

Sample Date/Time: 07/10/2012 16:15 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-15-A		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22360-A-15-A		480-72162	480-72043	07/12/2012 13:00	1	TAL BUF	JRK

Lab ID: 480-22360-16 **Client ID:** MR-GW-1SS-DP-10-42-46-D

Sample Date/Time: 07/10/2012 16:15 Received Date/Time: 07/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22360-A-16-A		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22360-A-16-A		480-72152	480-72069	07/12/2012 12:59	1	TAL BUF	JRK

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	MB 480-71899/1-A		480-71970	480-71899	07/11/2012 08:55	1	TAL BUF	SS
A:7470A	MB 480-71899/1-A		480-71970	480-71899	07/11/2012 12:37	1	TAL BUF	JM
P:7470A	MB 480-71898/1-A		480-71979	480-71898	07/11/2012 08:55	1	TAL BUF	SS
A:7470A	MB 480-71898/1-A		480-71979	480-71898	07/11/2012 15:05	1	TAL BUF	JRK
P:7470A	MB 480-72057/5-B		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	MB 480-72057/5-B		480-72152	480-72069	07/12/2012 12:33	1	TAL BUF	JRK
P:7470A	MB 480-72043/1-A		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	MB 480-72043/1-A		480-72162	480-72043	07/12/2012 12:36	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22320-1

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LCS 480-71899/2-A		480-71970	480-71899	07/11/2012 08:55	1	TAL BUF	SS
A:7470A	LCS 480-71899/2-A		480-71970	480-71899	07/11/2012 12:39	1	TAL BUF	JM
P:7470A	LCS 480-71898/2-A		480-71979	480-71898	07/11/2012 08:55	1	TAL BUF	SS
A:7470A	LCS 480-71898/2-A		480-71979	480-71898	07/11/2012 15:07	1	TAL BUF	JRK
P:7470A	LCS 480-72057/6-B		480-72152	480-72069	07/12/2012 09:20	1	TAL BUF	JRK
A:7470A	LCS 480-72057/6-B		480-72152	480-72069	07/12/2012 12:35	1	TAL BUF	JRK
P:7470A	LCS 480-72043/2-A		480-72162	480-72043	07/12/2012 08:40	1	TAL BUF	JRK
A:7470A	LCS 480-72043/2-A		480-72162	480-72043	07/12/2012 12:38	1	TAL BUF	JRK

Lab References:

TAL BUF = TestAmerica Buffalo

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22320-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-GW-1SS-DP-13-18-22-T	480-22320-1
MR-GW-1SS-DP-13-18-22-D	480-22320-2
MR-GW-1SS-DP-13-28-32-T	480-22320-3
MR-GW-1SS-DP-13-28-32-D	480-22320-4
MR-GW-1SS-DP-13-38-42-T	480-22360-1
MR-GW-1SS-DP-13-38-42-D	480-22360-2
MR-GW-1SS-DP-13-48-52-T	480-22360-3
MR-GW-1SS-DP-13-48-52-D	480-22360-4
MR-GW-DUP071012-T	480-22360-5
MR-GW-DUP071012-D	480-22360-6
MR-GW-1SS-DP-13-58-62-T	480-22360-7
MR-GW-1SS-DP-13-58-62-D	480-22360-8
MR-GW-1SS-DP-10-22-26-T	480-22360-9
MR-GW-1SS-DP-10-22-26-D	480-22360-10
MR-GW-1SS-DP-10-32-36-T	480-22360-11
MR-GW-1SS-DP-10-32-36-D	480-22360-12
MR-GW-1SS-DP-10-12-16-T	480-22360-13
MR-GW-1SS-DP-10-12-16-D	480-22360-14
MR-GW-1SS-DP-10-42-46-T	480-22360-15
MR-GW-1SS-DP-10-42-46-D	480-22360-16

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-13-18-22-T
Lab Sample ID: 480-22320-1
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/09/2012 15:28
Reporting Basis: WET
Date Received: 07/10/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	5.2	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-13-18-22-D
Lab Sample ID: 480-22320-2
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/09/2012 15:28
Reporting Basis: WET
Date Received: 07/10/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	1.6	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-13-28-32-T
Lab Sample ID: 480-22320-3
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/09/2012 15:55
Reporting Basis: WET
Date Received: 07/10/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-13-28-32-D
Lab Sample ID: 480-22320-4
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/09/2012 15:55
Reporting Basis: WET
Date Received: 07/10/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-13-38-42-T
Lab Sample ID: 480-22360-1
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 08:40
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	1.9	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-13-38-42-D
Lab Sample ID: 480-22360-2
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 08:40
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-13-48-52-T
Lab Sample ID: 480-22360-3
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 10:50
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-13-48-52-D
Lab Sample ID: 480-22360-4
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 10:50
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-DUP071012-T
Lab Sample ID: 480-22360-5
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 00:00
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-DUP071012-D
Lab Sample ID: 480-22360-6
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 00:00
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-13-58-62-T
Lab Sample ID: 480-22360-7
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 12:25
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-13-58-62-D
Lab Sample ID: 480-22360-8
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 12:25
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-10-22-26-T
Lab Sample ID: 480-22360-9
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 14:20
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	2.1	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-10-22-26-D
Lab Sample ID: 480-22360-10
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 14:20
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	0.25	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-10-32-36-T

Lab Sample ID: 480-22360-11

Lab Name: TestAmerica Buffalo

Job No.: 480-22320-1

SDG ID.:

Matrix: Water

Date Sampled: 07/10/2012 14:50

Reporting Basis: WET

Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.63	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-10-32-36-D
Lab Sample ID: 480-22360-12
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 14:50
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-10-12-16-T
Lab Sample ID: 480-22360-13
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 15:05
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	4.6	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-10-12-16-D
Lab Sample ID: 480-22360-14
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 15:05
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	3.0	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-10-42-46-T
Lab Sample ID: 480-22360-15
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 16:15
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.40	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-10-42-46-D
Lab Sample ID: 480-22360-16
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG ID.:
Matrix: Water
Date Sampled: 07/10/2012 16:15
Reporting Basis: WET
Date Received: 07/11/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

ICV Source: MEH_HG2_WKG_00134 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00134

Analyte	ICV 480-71979/1 07/11/2012 13:37				CCV 480-71979/44 07/11/2012 14:53				CCV 480-71979/56 07/11/2012 15:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00300		0.00300	100	0.00203		0.00200	102	0.00204		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

ICV Source: MEH_HG2_WKG_00134 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00134

Analyte	CCV 480-71979/65 07/11/2012 15:30											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00203		0.00200	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

ICV Source: MEH_HG2_WKG_00135 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00135

Analyte	ICV 480-72162/1 07/12/2012 12:28				CCV 480-72162/4 07/12/2012 12:33				CCV 480-72162/16 07/12/2012 12:53			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00300		0.00300	100	0.00203		0.00200	102	0.00200		0.00200	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

ICV Source: MEH_HG2_WKG_00135 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00135

Analyte	CCV 480-72162/28 07/12/2012 13:13											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00203		0.00200	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

ICV Source: MEH_HG2_WKG_00134 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00134

Analyte	ICV 480-71970/1 07/11/2012 12:26				CCV 480-71970/4 07/11/2012 12:33				CCV 480-71970/16 07/11/2012 12:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00304		0.00300	101	0.00203		0.00200	102	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

ICV Source: MEH_HG2_WKG_00134 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00134

Analyte	CCV 480-71970/21 07/11/2012 13:03											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00203		0.00200	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

ICV Source: MEH_HG2_WKG_00135 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00135

Analyte	ICV 480-72152/1 07/12/2012 12:23				CCV 480-72152/4 07/12/2012 12:30				CCV 480-72152/16 07/12/2012 12:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00296		0.00300	99	0.00200		0.00200	100	0.00200		0.00200	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

ICV Source: MEH_HG2_WKG_00135 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00135

Analyte	CCV 480-72152/28 07/12/2012 13:14											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00201		0.00200	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN2

Lab Sample ID: CRA 480-71979/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00134

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		83	50-150

Lab Sample ID: CRA 480-71979/64 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00134

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		88	50-150

Lab Sample ID: CRA 480-72162/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00135

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		90	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN3

Lab Sample ID: CRA 480-71970/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00134

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Dissolved	0.000200	ND		81	50-150

Lab Sample ID: CRA 480-72152/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00135

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Dissolved	0.000200	ND		88	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-71979/2 07/11/2012 13:39		CCB 480-71979/45 07/11/2012 14:54		CCB 480-71979/57 07/11/2012 15:16		CCB 480-71979/66 07/11/2012 15:32	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-72162/2 07/12/2012 12:29		CCB 480-72162/5 07/12/2012 12:34		CCB 480-72162/17 07/12/2012 12:55		CCB 480-72162/29 07/12/2012 13:15	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-71970/2 07/11/2012 12:29		CCB 480-71970/5 07/11/2012 12:35		CCB 480-71970/17 07/11/2012 12:56		CCB 480-71970/22 07/11/2012 13:05	
		Found	C	Found	C	Found	C	Found	C
Mercury, Dissolved	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-72152/2 07/12/2012 12:25		CCB 480-72152/5 07/12/2012 12:31		CCB 480-72152/17 07/12/2012 12:53		CCB 480-72152/29 07/12/2012 13:16	
		Found	C	Found	C	Found	C	Found	C
Mercury, Dissolved	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-71899/1-A

Instrument Code: LEEMAN3 Batch No.: 71970

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Dissolved	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-71898/1-A

Instrument Code: LEEMAN2 Batch No.: 71979

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-72057/5-B

Instrument Code: LEEMAN3 Batch No.: 72152

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Dissolved	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-72043/1-A

Instrument Code: LEEMAN2 Batch No.: 72162

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MR-GW-1SS-DP-10-22-26-T MS Lab ID: 480-22360-9 MS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Total	9.25		2.1		6.67	107	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MR-GW-1SS-DP-10-22-26-D MS
Lab ID: 480-22360-10 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Dissolved	7.10		0.25		6.67	103	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MR-GW-1SS-DP-10-22-26-T MSD Lab ID: 480-22360-9 MSD

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Total	9.28		6.67	107	75-125	0	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MR-GW-1SS-DP-10-22-26-D MSD
Lab ID: 480-22360-10 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-22320-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Dissolved	7.03		6.67	102	75-125	1	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-71899/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00134

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Dissolved	6.67	6.72		101	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-71898/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00134

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.78		102	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-72057/6-B

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00135

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Dissolved	6.67	6.68		100	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-72043/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00135

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.77		101	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-22360-9

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-22320-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Total	2.1		1.95		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 480-22360-10

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-22320-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Dissolved	0.25		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22320-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22320-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-22320-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Dissolved	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-22320-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Dissolved	253.7	0.0002	0.00012

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-22320-1

SDG No.:

Instrument ID: LEEMAN2 Date: 03/20/2012 10:04

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Total	10	10	7470A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-22320-1

SDG No.:

Instrument ID: LEEMAN3 Date: 03/20/2012 10:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Dissolved	10	10	7470A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-71898/1-A	07/11/2012 08:55	71898		30	50
LCS 480-71898/2-A	07/11/2012 08:55	71898		30	50
480-22320-1	07/11/2012 08:55	71898		30	50
480-22320-3	07/11/2012 08:55	71898		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-71899/1-A	07/11/2012 08:55	71899		30	50
LCS 480-71899/2-A	07/11/2012 08:55	71899		30	50
480-22320-2	07/11/2012 08:55	71899		30	50
480-22320-4	07/11/2012 08:55	71899		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-72043/1-A	07/12/2012 08:40	72043		30	50
LCS 480-72043/2-A	07/12/2012 08:40	72043		30	50
480-22360-1	07/12/2012 08:40	72043		30	50
480-22360-3	07/12/2012 08:40	72043		30	50
480-22360-5	07/12/2012 08:40	72043		30	50
480-22360-7	07/12/2012 08:40	72043		30	50
480-22360-9	07/12/2012 08:40	72043		30	50
480-22360-9 MS	07/12/2012 08:40	72043		30	50
480-22360-9 MSD	07/12/2012 08:40	72043		30	50
480-22360-11	07/12/2012 08:40	72043		30	50
480-22360-13	07/12/2012 08:40	72043		30	50
480-22360-15	07/12/2012 08:40	72043		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-72057/5-B	07/12/2012 09:20	72069		30	50
LCS 480-72057/6-B	07/12/2012 09:20	72069		30	50
480-22360-2	07/12/2012 09:20	72069		30	50
480-22360-4	07/12/2012 09:20	72069		30	50
480-22360-6	07/12/2012 09:20	72069		30	50
480-22360-8	07/12/2012 09:20	72069		30	50
480-22360-10	07/12/2012 09:20	72069		30	50
480-22360-10 MS	07/12/2012 09:20	72069		30	50
480-22360-10 MSD	07/12/2012 09:20	72069		30	50
480-22360-12	07/12/2012 09:20	72069		30	50
480-22360-14	07/12/2012 09:20	72069		30	50
480-22360-16	07/12/2012 09:20	72069		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/11/2012 13:37 End Date: 07/11/2012 15:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-71979/1	1		13:37	X																			
ICB 480-71979/2	1		13:39	X																			
CRA 480-71979/3	1		13:41	X																			
CCV 480-71979/4			13:42																				
CCB 480-71979/5			13:44																				
ZZZZZZ			13:46																				
ZZZZZZ			13:47																				
ZZZZZZ			13:49																				
ZZZZZZ			13:51																				
ZZZZZZ			13:53																				
ZZZZZZ			13:54																				
ZZZZZZ			13:56																				
ZZZZZZ			13:58																				
ZZZZZZ			14:00																				
ZZZZZZ			14:01																				
CCV 480-71979/16			14:03																				
CCB 480-71979/17			14:05																				
ZZZZZZ			14:06																				
ZZZZZZ			14:08																				
CCV 480-71979/20			14:12																				
CCB 480-71979/21			14:14																				
ZZZZZZ			14:16																				
ZZZZZZ			14:17																				
ZZZZZZ			14:19																				
ZZZZZZ			14:20																				
ZZZZZZ			14:22																				
ZZZZZZ			14:24																				
ZZZZZZ			14:26																				
ZZZZZZ			14:27																				
ZZZZZZ			14:29																				
ZZZZZZ			14:31																				
CCV 480-71979/32			14:32																				
CCB 480-71979/33			14:34																				
ZZZZZZ			14:36																				
ZZZZZZ			14:38																				
ZZZZZZ			14:39																				
ZZZZZZ			14:41																				
ZZZZZZ			14:42																				
ZZZZZZ			14:44																				
ZZZZZZ			14:46																				
ZZZZZZ			14:48																				
ZZZZZZ			14:49																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/11/2012 13:37 End Date: 07/11/2012 15:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:51																				
CCV 480-71979/44	1		14:53	X																			
CCB 480-71979/45	1		14:54	X																			
ZZZZZZ			14:56																				
ZZZZZZ			14:58																				
ZZZZZZ			14:59																				
ZZZZZZ			15:02																				
ZZZZZZ			15:03																				
MB 480-71898/1-A	1	T	15:05	X																			
LCS 480-71898/2-A	1	T	15:07	X																			
ZZZZZZ			15:09																				
ZZZZZZ			15:10																				
ZZZZZZ			15:12																				
CCV 480-71979/56	1		15:14	X																			
CCB 480-71979/57	1		15:16	X																			
ZZZZZZ			15:18																				
ZZZZZZ			15:19																				
ZZZZZZ			15:21																				
ZZZZZZ			15:23																				
480-22320-1	1	T	15:25	X																			
480-22320-3	1	T	15:26	X																			
CRA 480-71979/64	1		15:29	X																			
CCV 480-71979/65	1		15:30	X																			
CCB 480-71979/66	1		15:32	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/12/2012 12:28 End Date: 07/12/2012 14:20

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-72162/1	1		12:28	X																			
ICB 480-72162/2	1		12:29	X																			
CRA 480-72162/3	1		12:31	X																			
CCV 480-72162/4	1		12:33	X																			
CCB 480-72162/5	1		12:34	X																			
MB 480-72043/1-A	1	T	12:36	X																			
LCS 480-72043/2-A	1	T	12:38	X																			
480-22360-1	1	T	12:39	X																			
480-22360-3	1	T	12:41	X																			
480-22360-5	1	T	12:43	X																			
480-22360-7	1	T	12:44	X																			
480-22360-9	1	T	12:46	X																			
480-22360-9 SD	5	T	12:48	X																			
480-22360-9 MS	1	T	12:49	X																			
480-22360-9 MSD	1	T	12:51	X																			
CCV 480-72162/16	1		12:53	X																			
CCB 480-72162/17	1		12:55	X																			
480-22360-11	1	T	12:56	X																			
480-22360-13	1	T	12:58	X																			
480-22360-15	1	T	13:00	X																			
ZZZZZZ			13:01																				
ZZZZZZ			13:03																				
ZZZZZZ			13:05																				
ZZZZZZ			13:07																				
ZZZZZZ			13:08																				
ZZZZZZ			13:10																				
ZZZZZZ			13:12																				
CCV 480-72162/28	1		13:13	X																			
CCB 480-72162/29	1		13:15	X																			
ZZZZZZ			13:17																				
ZZZZZZ			13:19																				
ZZZZZZ			13:21																				
ZZZZZZ			13:23																				
ZZZZZZ			13:24																				
ZZZZZZ			13:26																				
ZZZZZZ			13:28																				
ZZZZZZ			13:29																				
ZZZZZZ			13:31																				
ZZZZZZ			13:33																				
CCV 480-72162/40			13:35																				
CCB 480-72162/41			13:36																				
ZZZZZZ			13:38																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/12/2012 12:28 End Date: 07/12/2012 14:20

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			13:40																				
ZZZZZZ			13:41																				
ZZZZZZ			13:43																				
ZZZZZZ			13:45																				
ZZZZZZ			13:47																				
ZZZZZZ			13:48																				
ZZZZZZ			13:51																				
ZZZZZZ			13:52																				
ZZZZZZ			13:54																				
CCV 480-72162/52			13:56																				
CCB 480-72162/53			13:57																				
ZZZZZZ			14:00																				
ZZZZZZ			14:01																				
ZZZZZZ			14:03																				
ZZZZZZ			14:05																				
ZZZZZZ			14:06																				
ZZZZZZ			14:08																				
ZZZZZZ			14:10																				
ZZZZZZ			14:11																				
ZZZZZZ			14:13																				
ZZZZZZ			14:15																				
CRA 480-72162/64			14:17																				
CCV 480-72162/65			14:19																				
CCB 480-72162/66			14:20																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/11/2012 12:26 End Date: 07/11/2012 13:05

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-71970/1	1		12:26	X																			
ICB 480-71970/2	1		12:29	X																			
CRA 480-71970/3	1		12:31	X																			
CCV 480-71970/4	1		12:33	X																			
CCB 480-71970/5	1		12:35	X																			
MB 480-71899/1-A	1	T	12:37	X																			
LCS 480-71899/2-A	1	T	12:39	X																			
ZZZZZZ			12:40																				
ZZZZZZ			12:42																				
ZZZZZZ			12:44																				
ZZZZZZ			12:46																				
ZZZZZZ			12:47																				
ZZZZZZ			12:49																				
ZZZZZZ			12:51																				
ZZZZZZ			12:53																				
CCV 480-71970/16	1		12:54	X																			
CCB 480-71970/17	1		12:56	X																			
480-22320-2	1	D	12:58	X																			
480-22320-4	1	D	12:59	X																			
CRA 480-71970/20			13:02																				
CCV 480-71970/21	1		13:03	X																			
CCB 480-71970/22	1		13:05	X																			

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/12/2012 12:23 End Date: 07/12/2012 13:28

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-72152/1	1		12:23	X																			
ICB 480-72152/2	1		12:25	X																			
CRA 480-72152/3	1		12:27	X																			
CCV 480-72152/4	1		12:30	X																			
CCB 480-72152/5	1		12:31	X																			
MB 480-72057/5-B	1	D	12:33	X																			
LCS 480-72057/6-B	1	D	12:35	X																			
480-22360-2	1	D	12:36	X																			
480-22360-4	1	D	12:39	X																			
480-22360-6	1	D	12:41	X																			
480-22360-8	1	D	12:42	X																			
480-22360-10	1	D	12:45	X																			
480-22360-10 SD	5	D	12:47	X																			
480-22360-10 MS	1	D	12:48	X																			
480-22360-10 MSD	1	D	12:50	X																			
CCV 480-72152/16	1		12:52	X																			
CCB 480-72152/17	1		12:53	X																			
480-22360-12	1	D	12:55	X																			
480-22360-14	1	D	12:57	X																			
480-22360-16	1	D	12:59	X																			
ZZZZZZ			13:00																				
ZZZZZZ			13:02																				
ZZZZZZ			13:04																				
ZZZZZZ			13:06																				
ZZZZZZ			13:08																				
ZZZZZZ			13:10																				
ZZZZZZ			13:12																				
CCV 480-72152/28	1		13:14	X																			
CCB 480-72152/29	1		13:16	X																			
ZZZZZZ			13:17																				
ZZZZZZ			13:19																				
ZZZZZZ			13:21																				
ZZZZZZ			13:22																				
CRA 480-72152/34			13:24																				
CCV 480-72152/35			13:26																				
CCB 480-72152/36			13:28																				

Prep Types
D = Dissolved

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧ ?

Protocol hgppb

Dataset/Proto H07112W1/hgppb

L2

7/11/12

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.47265e-5

C -6.60243e-2

rho .999907

☑ Calibrated

☑ Accepted

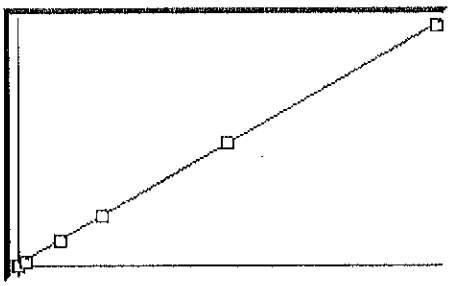
Accept

Type Linear

Rel. Abs.
680295

Accepted

New



Conc. 10.0

Include S8 Rep 1 2 3 4 5

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.044	-.044	1511	227	1672	1250	1610
02	.20000	.160	-.040	15358	4.1%	15058	14936	16082
03	1.0000	1.00	.004	72677	0.38%	72868	72365	72800
04	2.0000	2.06	.056	144115	0.29%	144367	144348	143628
05	5.0000	5.07	.071	348810	0.26%	348557	348042	349830
06	10.000	9.95	-.048	680296	0.15%	680380	679212	681294

71922

Ready CAP NUM

Cal: H07112C2

Run: H07112W1

Prep: 71891

71898

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2ICV Seq: 1 13:37:49 11 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	3.00	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 13:39:27 11 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.062	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 13:41:03 11 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		82.7	.165	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 13:42:40 11 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.02	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 13:44:30 11 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.054	.200	ppb	.000

*** Sample ID: Seq: 6 13:46:17 11 Jul 12 HG
mb 480-71891/1-a

Hg	.154	ppb	.000	.154

*** Sample ID: Seq: 7 13:47:52 11 Jul 12 HG
lcs 480-71891/2-a

Hg	.149	ppb	.000	.149

*** Sample ID: Seq: 8 13:49:32 11 Jul 12 HG
480-22328-g-1-b

Hg	.144	ppb	.000	.144

*** Sample ID: Seq: 9 13:51:23 11 Jul 12 HG
480-22328-g-2-b

Hg	.143	ppb	.000	.143

*** Sample ID: Seq: 10 13:53:01 11 Jul 12 HG
480-22328-g-3-d

Hg	.151	ppb	.000	.151

*** Sample ID: Seq: 11 13:54:37 11 Jul 12 HG
480-22328-g-4-b

Hg	.157	ppb	.000	.157

*** Sample ID: Seq: 12 13:56:36 11 Jul 12 HG
480-22328-g-5-b

Hg	.153	ppb	.000	.153

*** Sample ID: Seq: 13 13:58:24 11 Jul 12 HG
480-22328-g-6-b

Hg	-.046	ppb	.000	-.046

*** Sample ID: Seq: 14 14:00:04 11 Jul 12 HG
480-22328-g-7-b

Hg	-.073	ppb	.000	-.073

*** Sample ID: Seq: 15 14:01:51 11 Jul 12 HG
480-22328-g-8-b

Hg	-.064	ppb	.000	-.064

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV       Seq:  16      14:03:30 11 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.03    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  17      14:05:09 11 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.055     .200     ppb        .000

*** Sample ID:                      Seq:  18      14:06:48 11 Jul 12   HG
                          480-22328-g-9-b
Hg   -.078    ppb       .000     -.078

*** Sample ID:                      Seq:  19      14:08:59 11 Jul 12   HG
                          480-22325-e-2-b
Hg   -.051    ppb       .000     -.051

*** Check Standard: 3  Ck3CCV       Seq:  20      14:12:49 11 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          104.     2.07    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  21      14:14:30 11 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.067     .200     ppb        .000

*** Sample ID:                      Seq:  22      14:16:05 11 Jul 12   HG
                          mb 480-71891/1-a
Hg   -.074    ppb       .000     -.074

*** Sample ID:                      Seq:  23      14:17:40 11 Jul 12   HG
                          lcs 480-71891/2-a
Hg    4.10    ppb       .000      4.10

*** Sample ID:                      Seq:  24      14:19:20 11 Jul 12   HG
                          480-22328-g-1-b
Hg   -.055    ppb       .000     -.055

*** Sample ID:                      Seq:  25      14:20:59 11 Jul 12   HG
                          480-22328-g-2-b
Hg   -.027    ppb       .000     -.027

*** Sample ID:                      Seq:  26      14:22:37 11 Jul 12   HG
                          480-22328-g-3-d
Hg    .089    ppb       .000      .089

*** Sample ID:                      Seq:  27      14:24:35 11 Jul 12   HG
                          480-22328-g-4-b
Hg   -.058    ppb       .000     -.058

*** Sample ID:                      Seq:  28      14:26:14 11 Jul 12   HG
                          480-22328-g-5-b
Hg   -.059    ppb       .000     -.059

*** Sample ID:                      Seq:  29      14:27:54 11 Jul 12   HG
                          480-22328-g-6-b
Hg    .001    ppb       .000      .001

*** Sample ID:                      Seq:  30      14:29:45 11 Jul 12   HG
                          480-22328-g-7-b
Hg   -.055    ppb       .000     -.055
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  31     14:31:22 11 Jul 12   HG
                          480-22328-g-8-b
Hg   -.031    ppb       .000     -.031

*** Check Standard: 3  Ck3CCV        Seq:  32     14:32:59 11 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     2.05    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  33     14:34:46 11 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.049     .200     ppb        .000

*** Sample ID:                          Seq:  34     14:36:27 11 Jul 12   HG
                          480-22328-g-9-b
Hg   -.034    ppb       .000     -.034

*** Sample ID:                          Seq:  35     14:38:05 11 Jul 12   HG
                          480-22325-e-2-b
Hg   -.038    ppb       .000     -.038

*** Sample ID:                          Seq:  36     14:39:41 11 Jul 12   HG
                          480-22325-e-3-b
Hg   -.042    ppb       .000     -.042

*** Sample ID:                          Seq:  37     14:41:19 11 Jul 12   HG
                          480-22322-e-4-b
Hg   -.045    ppb       .000     -.045

*** Sample ID:                          Seq:  38     14:42:56 11 Jul 12   HG
                          480-22338-b-2-a
Hg   -.041    ppb       .000     -.041

*** Sample ID:                          Seq:  39     14:44:33 11 Jul 12   HG
                          480-22277-b-1-d
Hg   -.035    ppb       .000     -.035

*** Sample ID:                          Seq:  40     14:46:35 11 Jul 12   HG
                          480-22277-b-1-d SD@5
Hg   -.039    ppb       .000     -.039

*** Sample ID:                          Seq:  41     14:48:16 11 Jul 12   HG
                          480-22277-b-1-e ms
Hg    4.06    ppb       .000      4.06

*** Sample ID:                          Seq:  42     14:49:55 11 Jul 12   HG
                          480-22277-b-1-f msd
Hg    4.08    ppb       .000      4.08

*** Sample ID:                          Seq:  43     14:51:35 11 Jul 12   HG
                          480-22277-b-2-b
Hg   -.059    ppb       .000     -.059

*** Check Standard: 3  Ck3CCV        Seq:  44     14:53:15 11 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.03    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  45     14:54:52 11 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.058     .200     ppb        .000
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                        Seq:  46     14:56:28 11 Jul 12   HG
                          480-22277-b-4-b
Hg   -.051    ppb       .000     -.051
                                                                          =
*** Sample ID:                        Seq:  47     14:58:09 11 Jul 12   HG
                          480-22277-b-5-b
Hg   -.055    ppb       .000     -.055
                                                                          =
*** Sample ID:                        Seq:  48     14:59:56 11 Jul 12   HG
                          480-22321-j-1-b
Hg   -.052    ppb       .000     -.052
                                                                          =
*** Sample ID:                        Seq:  49     15:02:05 11 Jul 12   HG
                          480-22326-f-1-b
Hg   -.007    ppb       .000     -.007
                                                                          =
*** Sample ID:                        Seq:  50     15:03:44 11 Jul 12   HG
                          480-22208-b-1-b
Hg   -.055    ppb       .000     -.055
                                                                          =
*** Sample ID:                        Seq:  51     15:05:53 11 Jul 12   HG
                          mb 480-71898/1-a
Hg   -.055    ppb       .000     -.055
                                                                          =
*** Sample ID:                        Seq:  52     15:07:33 11 Jul 12   HG
                          lcs 480-71898/2-a
Hg    4.07    ppb       .000      4.07
                                                                          =
*** Sample ID:                        Seq:  53     15:09:12 11 Jul 12   HG
                          480-22351-e-1-a
Hg   -.067    ppb       .000     -.067
                                                                          =
*** Sample ID:                        Seq:  54     15:10:49 11 Jul 12   HG
                          480-22354-e-1-a
Hg   -.041    ppb       .000     -.041
                                                                          =
*** Sample ID:                        Seq:  55     15:12:48 11 Jul 12   HG
                          480-22354-e-1-a SD@5
Hg   -.047    ppb       .000     -.047
                                                                          =
*** Check Standard: 3  Ck3CCV         Seq:  56     15:14:38 11 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.04    2.00   ppb        .000
                                                                          =
*** Check Standard: 1  Ck1CCB         Seq:  57     15:16:27 11 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          -.055     .200     ppb        .000
                                                                          =
*** Sample ID:                        Seq:  58     15:18:06 11 Jul 12   HG
                          480-22354-e-1-b ms
Hg    4.06    ppb       .000      4.06
                                                                          =
*** Sample ID:                        Seq:  59     15:19:44 11 Jul 12   HG
                          480-22354-e-1-c msd
Hg    4.08    ppb       .000      4.08
                                                                          =
*** Sample ID:                        Seq:  60     15:21:23 11 Jul 12   HG
                          480-22333-i-1-c
Hg   -.063    ppb       .000     -.063
                                                                          =
```

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 61 15:23:01 11 Jul 12 HG
480-22329-e-1-c

Hg	-.048	ppb	.000	-.048

*** Sample ID: Seq: 62 15:25:08 11 Jul 12 HG
480-22320-a-1-a

Hg	3.12	ppb	.000	3.12

*** Sample ID: Seq: 63 15:26:58 11 Jul 12 HG
480-22320-a-3-a

Hg	.006	ppb	.000	.006

*** Check Standard: 4 Ck4CRA Seq: 64 15:29:10 11 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		87.5	.175	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 65 15:30:46 11 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 66 15:32:32 11 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.065	.200	ppb	.000

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧

Protocol hgppb

Dataset/Proto H07122W1/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.52501e-5

C -4.96089e-2

rho .999969

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs. 657258

Accepted

New

Conc. 10.0

Include S8 Rep 1 2 3 4 5

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.029	-.029	1375	143	1493	1415	1216
02	.20000	.176	-.024	14814	1.84%	14955	14986	14500
03	1.0000	1.01	.009	69387	0.51%	68979	69613	69572
04	2.0000	2.03	.032	136490	0.21%	136828	136302	136340
05	5.0000	5.04	.038	333629	0.43%	335284	332868	332733
06	10.000	9.97	-.026	657258	0.45%	660428	656757	654589

Ready CAP NUM

L2

7/12/12

72102

Cal: H07122C1

Run: H07122W1

Batches: 72043

72044

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV        Seq:  1       12:28:06 12 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     3.00    3.00   ppb        .000
                                                                          =
*** Check Standard: 1  Ck1CCB        Seq:  2       12:29:42 12 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.027     .200     ppb        .000
                                                                          =
*** Check Standard: 4  Ck4CRA        Seq:  3       12:31:27 12 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          90.2     .180    .200   ppb        .000
                                                                          =
*** Check Standard: 3  Ck3CCV        Seq:  4       12:33:04 12 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.03    2.00   ppb        .000
                                                                          =
*** Check Standard: 1  Ck1CCB        Seq:  5       12:34:39 12 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.040     .200     ppb        .000
                                                                          =
*** Sample ID:                       Seq:  6       12:36:37 12 Jul 12   HG
                          mb 480-72043/1-a
Hg   -.042    ppb       .000     -.042
                                                                          =
*** Sample ID:                       Seq:  7       12:38:13 12 Jul 12   HG
                          lcs 480-72043/2-a
Hg    4.06    ppb       .000      4.06
                                                                          =
*** Sample ID:                       Seq:  8       12:39:52 12 Jul 12   HG
                          480-22360-a-1-a
Hg    1.13    ppb       .000      1.13
                                                                          =
*** Sample ID:                       Seq:  9       12:41:30 12 Jul 12   HG
                          480-22360-a-3-a
Hg   -.030    ppb       .000     -.030
                                                                          =
*** Sample ID:                       Seq:  10      12:43:05 12 Jul 12   HG
                          480-22360-a-5-a
Hg    .081    ppb       .000      .081
                                                                          =
*** Sample ID:                       Seq:  11      12:44:41 12 Jul 12   HG
                          480-22360-a-7-a
Hg   -.001    ppb       .000     -.001
                                                                          =
*** Sample ID:                       Seq:  12      12:46:27 12 Jul 12   HG
                          480-22360-a-9-a
Hg    1.28    ppb       .000      1.28
                                                                          =
*** Sample ID:                       Seq:  13      12:48:06 12 Jul 12   HG
                          480-22360-a-9-a SD@5
Hg    .234    ppb       .000      .234
                                                                          =
*** Sample ID:                       Seq:  14      12:49:42 12 Jul 12   HG
                          480-22360-a-9-b ms
Hg    5.55    ppb       .000      5.55
                                                                          =
*** Sample ID:                       Seq:  15      12:51:32 12 Jul 12   HG
                          80-22360-a-9-c msd
Hg    5.57    ppb       .000      5.57
                                                                          =
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV       Seq:  16      12:53:17 12 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     2.00    2.00   ppb        .000
                                                                          =

*** Check Standard: 1  Ck1CCB       Seq:  17      12:55:03 12 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.044     .200     ppb        .000
                                                                          =

*** Sample ID:                      Seq:  18      12:56:50 12 Jul 12   HG
                          480-22360-a-11-a
Hg    .376    ppb        .000      .376
                                                                          =

*** Sample ID:                      Seq:  19      12:58:31 12 Jul 12   HG
                          480-22360-a-13-a
Hg    2.77    ppb        .000      2.77
                                                                          =

*** Sample ID:                      Seq:  20      13:00:08 12 Jul 12   HG
                          480-22360-a-15-a
Hg    .239    ppb        .000      .239
                                                                          =

*** Sample ID:                      Seq:  21      13:01:46 12 Jul 12   HG
                          480-22370-c-1-c
Hg   -.034    ppb        .000     -.034
                                                                          =

*** Sample ID:                      Seq:  22      13:03:43 12 Jul 12   HG
                          480-22370-c-2-c
Hg   -.010    ppb        .000     -.010
                                                                          =

*** Sample ID:                      Seq:  23      13:05:22 12 Jul 12   HG
                          480-22370-c-3-c
Hg    .164    ppb        .000      .164
                                                                          =

*** Sample ID:                      Seq:  24      13:07:09 12 Jul 12   HG
                          480-22370-c-4-c
Hg   -.029    ppb        .000     -.029
                                                                          =

*** Sample ID:                      Seq:  25      13:08:58 12 Jul 12   HG
                          480-22370-c-5-c
Hg    .264    ppb        .000      .264
                                                                          =

*** Sample ID:                      Seq:  26      13:10:36 12 Jul 12   HG
                          480-22383-e-1-a
Hg   -.046    ppb        .000     -.046
                                                                          =

*** Sample ID:                      Seq:  27      13:12:13 12 Jul 12   HG
                          480-22383-e-2-a
Hg   -.033    ppb        .000     -.033
                                                                          =

*** Check Standard: 3  Ck3CCV       Seq:  28      13:13:53 12 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.03    2.00   ppb        .000
                                                                          =

*** Check Standard: 1  Ck1CCB       Seq:  29      13:15:31 12 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.048     .200     ppb        .000
                                                                          =

*** Sample ID:                      Seq:  30      13:17:28 12 Jul 12   HG
                          480-22368-a-2-a
Hg   -.037    ppb        .000     -.037
                                                                          =
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5

*** Sample ID:                        Seq:  31     13:19:04 12 Jul 12   HG
                          480-22384-g-1-b
Hg   -.045    ppb       .000     -.045
                                                                          =
*** Sample ID:                        Seq:  32     13:21:24 12 Jul 12   HG
                          480-22384-g-2-b
Hg   -.013    ppb       .000     -.013
                                                                          =
*** Sample ID:                        Seq:  33     13:23:05 12 Jul 12   HG
                          480-22384-g-3-b
Hg   -.026    ppb       .000     -.026
                                                                          =
*** Sample ID:                        Seq:  34     13:24:40 12 Jul 12   HG
                          480-22384-g-4-b
Hg   -.038    ppb       .000     -.038
                                                                          =
*** Sample ID:                        Seq:  35     13:26:27 12 Jul 12   HG
                          mb 480-72044/1-a
Hg   -.039    ppb       .000     -.039
                                                                          =
*** Sample ID:                        Seq:  36     13:28:14 12 Jul 12   HG
                          lcs 480-72044/2-a
Hg    3.94    ppb       .000      3.94
                                                                          =
*** Sample ID:                        Seq:  37     13:29:55 12 Jul 12   HG
                          480-22378-c-1-c
Hg   -.035    ppb       .000     -.035
                                                                          =
*** Sample ID:                        Seq:  38     13:31:31 12 Jul 12   HG
                          480-22378-c-2-c
Hg   -.044    ppb       .000     -.044
                                                                          =
*** Sample ID:                        Seq:  39     13:33:10 12 Jul 12   HG
                          480-22378-c-3-c
Hg   -.031    ppb       .000     -.031
                                                                          =
*** Check Standard: 3  Ck3CCV       Seq:  40     13:35:02 12 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.02    2.00  ppb        .000
                                                                          =
*** Check Standard: 1  Ck1CCB       Seq:  41     13:36:43 12 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.037     .200     ppb        .000
                                                                          =
*** Sample ID:                        Seq:  42     13:38:21 12 Jul 12   HG
                          480-22378-c-4-c
Hg   -.030    ppb       .000     -.030
                                                                          =
*** Sample ID:                        Seq:  43     13:40:00 12 Jul 12   HG
                          480-22378-c-5-c
Hg   -.028    ppb       .000     -.028
                                                                          =
*** Sample ID:                        Seq:  44     13:41:51 12 Jul 12   HG
                          480-22378-c-6-c
Hg   -.025    ppb       .000     -.025
                                                                          =
*** Sample ID:                        Seq:  45     13:43:43 12 Jul 12   HG
                          480-22378-c-7-c
Hg    .362    ppb       .000      .362
                                                                          =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                        Seq:  46     13:45:29 12 Jul 12   HG
                          480-22378-c-8-c
Hg   -.033    ppb       .000     -.033

*** Sample ID:                        Seq:  47     13:47:08 12 Jul 12   HG
                          480-22378-a-9-c
Hg   -.028    ppb       .000     -.028

*** Sample ID:                        Seq:  48     13:48:58 12 Jul 12   HG
                          480-22378-c-10-c
Hg   -.024    ppb       .000     -.024

*** Sample ID:                        Seq:  49     13:51:09 12 Jul 12   HG
                          480-22389-g-1-b
Hg   -.030    ppb       .000     -.030

*** Sample ID:                        Seq:  50     13:52:47 12 Jul 12   HG
                          480-22389-g-2-b
Hg   -.017    ppb       .000     -.017

*** Sample ID:                        Seq:  51     13:54:25 12 Jul 12   HG
                          480-22389-g-3-d
Hg    .020    ppb       .000      .020

*** Check Standard: 3  Ck3CCV        Seq:  52     13:56:01 12 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.02    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  53     13:57:40 12 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.043     .200     ppb        .000

*** Sample ID:                        Seq:  54     14:00:01 12 Jul 12   HG
                          480-22389-g-4-b
Hg   -.033    ppb       .000     -.033

*** Sample ID:                        Seq:  55     14:01:38 12 Jul 12   HG
                          480-22389-g-5-b
Hg   -.015    ppb       .000     -.015

*** Sample ID:                        Seq:  56     14:03:15 12 Jul 12   HG
                          480-22389-g-6-b
Hg   -.016    ppb       .000     -.016

*** Sample ID:                        Seq:  57     14:05:05 12 Jul 12   HG
                          480-22389-g-7-b
Hg    .182    ppb       .000      .182

*** Sample ID:                        Seq:  58     14:06:47 12 Jul 12   HG
                          480-22389-g-8-b
Hg   -.027    ppb       .000     -.027

*** Sample ID:                        Seq:  59     14:08:34 12 Jul 12   HG
                          480-22389-g-9-b
Hg   -.033    ppb       .000     -.033

*** Sample ID:                        Seq:  60     14:10:10 12 Jul 12   HG
                          480-22389-g-9-b SD@5
Hg   -.025    ppb       .000     -.025
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 61 14:11:47 12 Jul 12 HG
480-22389-g-9-c ms

Hg	3.97	ppb	.000	3.97

*** Sample ID: Seq: 62 14:13:54 12 Jul 12 HG
480-22389-g-9-d msd

Hg	4.04	ppb	.000	4.04

*** Sample ID: Seq: 63 14:15:44 12 Jul 12 HG
480-22283-s-1-b

Hg	-.054	ppb	.000	-.054

*** Check Standard: 4 Ck4CRA Seq: 64 14:17:25 12 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	.203	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 65 14:19:15 12 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.01	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 66 14:20:52 12 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.044	.200	ppb	.000

WinHg Database 1.1

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto

L3

Protocol | Line Info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.27902e-5

C -5.50293e-2

rho .999893

Calibrated

Accepted

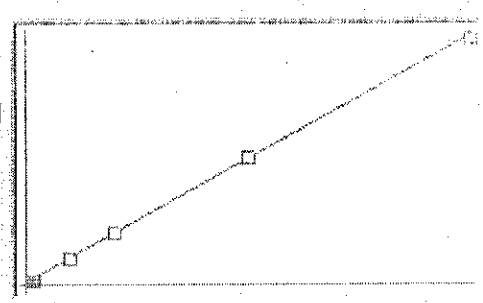
Accept

Type Linear

Rel. Abs. 782264

Accepted

New



Include S2 Rep. 1 2 3 4 5

Conc. 10.0

7/11/12

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.055	-.055	-8	408	407	-407	-26
02	.20000	.163	-.037	17066	0.33%	17098	17099	17001
03	1.0000	1.01	.007	83012	0.28%	83244	83004	82787
04	2.0000	2.06	.064	165695	0.13%	165647	165935	165505
05	5.0000	5.07	.071	400751	0.22%	401674	400629	399948
06	10.000	9.95	-.050	782265	0.25%	784508	781387	780898

71922

Ready

CAP NUM

Cal J07112 C1
run J07112 D1
prep: 71899

71922

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV        Seq:  1       12:26:02 11 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     3.04    3.00   ppb        .000

*** Check Standard: 1  Ck1ICB        Seq:  2       12:29:59 11 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.018     .200     ppb        .000

*** Check Standard: 4  Ck4CRA        Seq:  3       12:31:44 11 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          80.4     .161    .200   ppb        .000

*** Check Standard: 3  Ck3CCV        Seq:  4       12:33:23 11 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.03    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  5       12:35:01 11 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.073     .200     ppb        .000

*** Sample ID:                       Seq:  6       12:37:16 11 Jul 12   HG
                          mb 480-71899/1-a
Hg   -.059    ppb       .000     -.059

*** Sample ID:                       Seq:  7       12:39:01 11 Jul 12   HG
                          lcs 480-71899/2-a
Hg    4.03    ppb       .000      4.03

*** Sample ID:                       Seq:  8       12:40:56 11 Jul 12   HG
                          480-22330-e-1-b
Hg   -.055    ppb       .000     -.055

*** Sample ID:                       Seq:  9       12:42:30 11 Jul 12   HG
                          480-22330-e-2-b
Hg   -.056    ppb       .000     -.056

*** Sample ID:                       Seq:  10      12:44:25 11 Jul 12   HG
                          480-22330-e-3-d
Hg   -.056    ppb       .000     -.056

*** Sample ID:                       Seq:  11      12:46:02 11 Jul 12   HG
                          480-22330-e-4-b
Hg   -.049    ppb       .000     -.049

*** Sample ID:                       Seq:  12      12:47:47 11 Jul 12   HG
                          480-22331-g-1-b
Hg   -.046    ppb       .000     -.046

*** Sample ID:                       Seq:  13      12:49:44 11 Jul 12   HG
                          480-22331-g-1-b SD@5
Hg   -.028    ppb       .000     -.028

*** Sample ID:                       Seq:  14      12:51:20 11 Jul 12   HG
                          480-22331-g-1-c ms
Hg    3.88    ppb       .000      3.88

*** Sample ID:                       Seq:  15      12:53:00 11 Jul 12   HG
                          480-22331-g-1-d msd
Hg    4.05    ppb       .000      4.05
```

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 12:54:46 11 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 12:56:24 11 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.049	.200	ppb	.000

*** Sample ID: Seq: 18 12:58:19 11 Jul 12 HG
480-22320-a-2-a

Hg	.959	ppb	.000	.959

*** Sample ID: Seq: 19 12:59:55 11 Jul 12 HG
480-22320-a-4-a

Hg	-.045	ppb	.000	-.045

*** Check Standard: 4 Ck4CRA Seq: 20 13:02:13 11 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		84.5	.169	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 21 13:03:50 11 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 22 13:05:36 11 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.050	.200	ppb	.000

WinHg Database 1.1

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto J07122D1/hgppb

L3

7/12/12

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.23746e-5

C -4.27443e-2

rho .999978

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs. 809835

Accepted

New

Include 56 Rep 1☑ 2☑ 3☑ 4☐ 5☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.025	-.025	1394	217	1640	1226	1317
02	.20000	.181	-.019	18084	1.1%	18313	17949	17992
03	1.0000	1.01	.007	84801	0.2%	84825	84620	84956
04	2.0000	2.03	.030	167459	0.12%	167635	167500	167244
05	5.0000	5.03	.030	409904	0.22%	410335	410499	408877
06	10.000	9.98	-.021	809835	0.06%	810113	810156	809238

Ready CAP NUM

7 2102

Cal: J07122C1

Run: J07122D1

Batches: 72069

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2ICV Seq: 1 12:23:50 12 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.7	2.96	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 12:25:36 12 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.038	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 12:27:43 12 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		87.7	.175	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 12:30:03 12 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	2.00	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 12:31:44 12 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.036	.200	ppb	.000

*** Sample ID: Seq: 6 12:33:32 12 Jul 12 HG
mb 480-72057/5-b

Hg	-.027	ppb	.000	-.027

*** Sample ID: Seq: 7 12:35:08 12 Jul 12 HG
lcs 480-72057/6-b

Hg	4.01	ppb	.000	4.01

*** Sample ID: Seq: 8 12:36:56 12 Jul 12 HG
480-22360-a-2-a

Hg	-.034	ppb	.000	-.034

*** Sample ID: Seq: 9 12:39:23 12 Jul 12 HG
480-22360-a-4-a

Hg	-.024	ppb	.000	-.024

*** Sample ID: Seq: 10 12:41:17 12 Jul 12 HG
480-22360-a-6-a

Hg	-.012	ppb	.000	-.012

*** Sample ID: Seq: 11 12:42:52 12 Jul 12 HG
480-22360-a-8-a

Hg	-.026	ppb	.000	-.026

*** Sample ID: Seq: 12 12:45:12 12 Jul 12 HG
480-22360-a-10-a

Hg	.149	ppb	.000	.149

*** Sample ID: Seq: 13 12:47:09 12 Jul 12 HG
22360-a-10-a SD@5

Hg	.005	ppb	.000	.005

*** Sample ID: Seq: 14 12:48:45 12 Jul 12 HG
22360-a-10-b ms

Hg	4.26	ppb	.000	4.26

*** Sample ID: Seq: 15 12:50:32 12 Jul 12 HG
22360-a-10-c msd

Hg	4.22	ppb	.000	4.22

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV       Seq:  16      12:52:22 12 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     2.00    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  17      12:53:57 12 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.033     .200     ppb        .000

*** Sample ID:                      Seq:  18      12:55:56 12 Jul 12   HG
                          480-22360-a-12-a
Hg   -.017    ppb       .000     -.017

*** Sample ID:                      Seq:  19      12:57:33 12 Jul 12   HG
                          480-22360-a-14-a
Hg    1.81    ppb       .000      1.81

*** Sample ID:                      Seq:  20      12:59:14 12 Jul 12   HG
                          480-22360-a-16-a
Hg   -.015    ppb       .000     -.015

*** Sample ID:                      Seq:  21      13:00:51 12 Jul 12   HG
                          480-22373-d-1-b
Hg    .009    ppb       .000      .009

*** Sample ID:                      Seq:  22      13:02:36 12 Jul 12   HG
                          480-22373-d-3-b
Hg   -.026    ppb       .000     -.026

*** Sample ID:                      Seq:  23      13:04:23 12 Jul 12   HG
                          480-22373-d-4-b
Hg   -.008    ppb       .000     -.008

*** Sample ID:                      Seq:  24      13:06:04 12 Jul 12   HG
                          480-22373-d-5-b
Hg   -.023    ppb       .000     -.023

*** Sample ID:                      Seq:  25      13:08:00 12 Jul 12   HG
                          480-22373-d-6-b
Hg   -.028    ppb       .000     -.028

*** Sample ID:                      Seq:  26      13:10:21 12 Jul 12   HG
                          480-22373-d-7-b
Hg   -.024    ppb       .000     -.024

*** Sample ID:                      Seq:  27      13:12:06 12 Jul 12   HG
                          480-22371-d-1-b
Hg   -.030    ppb       .000     -.030

*** Check Standard: 3  Ck3CCV       Seq:  28      13:14:03 12 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     2.01    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  29      13:16:04 12 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.029     .200     ppb        .000

*** Sample ID:                      Seq:  30      13:17:42 12 Jul 12   HG
                          480-22372-e-1-c
Hg   -.031    ppb       .000     -.031
```

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 13:19:18 12 Jul 12 HG
480-22372-e-2-c

Hg	-.031	ppb	.000	-.031

*** Sample ID: Seq: 32 13:21:14 12 Jul 12 HG
480-22372-e-3-c

Hg	-.029	ppb	.000	-.029

*** Sample ID: Seq: 33 13:22:50 12 Jul 12 HG
480-22372-e-4-c

Hg	-.025	ppb	.000	-.025

*** Check Standard: 4 Ck4CRA Seq: 34 13:24:42 12 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		88.3	.177	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 35 13:26:22 12 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.6	1.99	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 36 13:28:00 12 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.035	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Batch Number: 71898 Batch Start Date: 07/11/12 08:55 Batch Analyst: Setang, Steven

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00134			
MB 480-71898/1		7470A, 7470A		30 mL	50 mL				
LCS 480-71898/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-22320-A-1	MR-GW-1SS-DP-13-18-22-T	7470A, 7470A	T	30 mL	50 mL				
480-22320-A-3	MR-GW-1SS-DP-13-28-32-T	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch:
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-A
Potassium Persulfate Lot Number	747131
Potassium Permanganate Lot Number	797052
Oven, Bath or Block Temperature 1	94.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Batch Number: 71899 Batch Start Date: 07/11/12 08:55 Batch Analyst: Setang, Steven

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00134			
MB 480-71899/1		7470A, 7470A		30 mL	50 mL				
LCS 480-71899/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-22320-A-2	MR-GW-1SS-DP-13-18-22-D	7470A, 7470A	D	30 mL	50 mL				
480-22320-A-4	MR-GW-1SS-DP-13-28-32-D	7470A, 7470A	D	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch:
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-C
Potassium Persulfate Lot Number	747131
Potassium Permanganate Lot Number	7972052
Oven, Bath or Block Temperature 1	95.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	96.0 Celsius

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Batch Number: 72043 Batch Start Date: 07/12/12 08:40 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00135			
MB 480-72043/1		7470A, 7470A		30 mL	50 mL				
LCS 480-72043/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-22360-A-1	MR-GW-1SS-DP-13-38-42-T	7470A, 7470A	T	30 mL	50 mL				
480-22360-A-3	MR-GW-1SS-DP-13-48-52-T	7470A, 7470A	T	30 mL	50 mL				
480-22360-A-5	MR-GW-DUP071012-T	7470A, 7470A	T	30 mL	50 mL				
480-22360-A-7	MR-GW-1SS-DP-13-58-62-T	7470A, 7470A	T	30 mL	50 mL				
480-22360-A-9	MR-GW-1SS-DP-10-22-26-T	7470A, 7470A	T	30 mL	50 mL				
480-22360-A-9 MS	MR-GW-1SS-DP-10-22-26-T	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-22360-A-9 MSD	MR-GW-1SS-DP-10-22-26-T	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-22360-A-11	MR-GW-1SS-DP-10-32-36-T	7470A, 7470A	T	30 mL	50 mL				
480-22360-A-13	MR-GW-1SS-DP-10-12-16-T	7470A, 7470A	T	30 mL	50 mL				
480-22360-A-15	MR-GW-1SS-DP-10-42-46-T	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 72102
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-A
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	7972052
Oven, Bath or Block Temperature 1	93.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	94.0 Celsius

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Batch Number: 72043 Batch Start Date: 07/12/12 08:40 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Batch Number: 72069 Batch Start Date: 07/12/12 09:20 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00135			
MB 480-72057/5-A		7470A, 7470A		30 mL	50 mL				
LCS 480-72057/6-A		7470A, 7470A		30 mL	50 mL	2 mL			
480-22360-A-2	MR-GW-1SS-DP-13-38-42-D	7470A, 7470A	D	30 mL	50 mL				
480-22360-A-4	MR-GW-1SS-DP-13-48-52-D	7470A, 7470A	D	30 mL	50 mL				
480-22360-A-6	MR-GW-DUP071012-D	7470A, 7470A	D	30 mL	50 mL				
480-22360-A-8	MR-GW-1SS-DP-13-58-62-D	7470A, 7470A	D	30 mL	50 mL				
480-22360-A-10	MR-GW-1SS-DP-10-22-26-D	7470A, 7470A	D	30 mL	50 mL				
480-22360-A-10 MS	MR-GW-1SS-DP-10-22-26-D	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-22360-A-10 MSD	MR-GW-1SS-DP-10-22-26-D	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-22360-A-12	MR-GW-1SS-DP-10-32-36-D	7470A, 7470A	D	30 mL	50 mL				
480-22360-A-14	MR-GW-1SS-DP-10-12-16-D	7470A, 7470A	D	30 mL	50 mL				
480-22360-A-16	MR-GW-1SS-DP-10-42-46-D	7470A, 7470A	D	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 72102
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-D
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	7972052
Oven, Bath or Block Temperature 1	94.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22320-1

SDG No.:

Batch Number: 72069 Batch Start Date: 07/12/12 09:20 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Basis	Basis Description
D	Dissolved

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 7/9/12	Chain of Custody Number: 228177
Address: 110 Commerce Drive	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 1 of 1
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Cathe Mino	Lab Contact: Brian Fischer	
Project Name and Location (State): Mereco Colonie NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed): Mercury 7470A

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Mercury 7470A	Special Instructions/ Conditions of Receipt
MR-GW-155-DP-13-18-22-T	7/9/12	15:28		X						X					X	
MR-GW-155-DP-13-18-22-D	7/9/12	15:28		X						X					X	
MR-GW-155-DP-13-28-32-T	7/9/12	15:55		X						X					X	
MR-GW-155-DP-13-28-32-D	7/9/12	15:55		X						X					X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 3 days

QC Requirements (Specify):

1. Relinquished By	Date 7/9/12	Time 16:25	1. Received By	Date 7/9/12	Time 16:25
2. Relinquished By	Date 7/9/12	Time 1700	2. Received By	Date 7/10/12	Time 0900
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 2.9 #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 7/10/12	Chain of Custody Number: 228176
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 1 of 2
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Catie Mino; Lab Contact: Brian Fischer		
Project Name and Location (State): Mereco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Mercury 7470A	Special Instructions/ Conditions of Receipt
MR-GW-ISS-DP-13-38-42-T	7/10/12	8:40		X					X				X	
MR-GW-ISS-DP-13-38-42-D	7/10/12	8:40		X					X				X	
MR-GW-ISS-DP-13-48-52-T	7/10/12	10:50		X					X				X	
MR-GW-ISS-DP-13-48-52-D	7/10/12	10:50		X					X				X	
MR-GW-DUP071012-T	7/10/12	99:99		X					X				X	
MR-GW-DUP071012-D	7/10/12	99:99		X					X				X	
MR-GW-ISS-DP-13-58-62-T	7/10/12	12:25		X					X				X	
MR-GW-ISS-DP-13-58-62-D	7/10/12	12:25		X					X				X	
MR-GW-ISS-DP-10-22-26-T	7/10/12	14:20		X					X				X	MS/MSD
MR-GW-ISS-DP-10-22-26-D	7/10/12	14:20		X					X				X	MS/MSD
MR-GW-ISS-DP-10-32-36-T	7/10/12	14:50		X					X				X	
MR-GW-ISS-DP-10-32-36-D	7/10/12	14:50		X					X				X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 3 days

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	7/10/12	16:32	1. Received By: [signature]	7/10/12	1632
2. Relinquished By: [signature]	7/10/12	1700	2. Received By: [signature]	7-11-12	0800
3. Relinquished By:			3. Received By: 3.6 HD		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

07/16/2012

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Brown and Caldwell	Frank Williams	7/10/12	228174
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
110 Commerce Dr.	201-574-4700 / 201-236-1617	—	
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Allendale / NJ / 07401	Cathy Mirro	Brian Fischer	
Project Name and Location (State)	**Carrier/Waybill Number**		
Mereco, Colonie, NY	—		
Contract/Purchase Order/Quote No.			
—			

Analysis (Attach list if more space is needed): Mercury 7470A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH		Mercury 7470A
MR-GW-ISS-DP-10-D-16-T	7/10/12	15:05		X						X					X
MR-GW-ISS-DP-10-12-16-D	7/10/12	15:05		X						X					X
MR-GW-ISS-DP-10-42-46-T	7/10/12	16:15		X						X					X
MR-GW-ISS-DP-10-42-46-D	7/10/12	16:15		X						X					X

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 3 day

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7/10/12	16:32	1. Received By	7/10/12	16:32
2. Relinquished By	7/10/12	1700	2. Received By	7-11-12	0800
3. Relinquished By			3. Received By		

Comments

3.6 °C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-22320-1

Login Number: 22320

List Source: TestAmerica Buffalo

List Number: 1

Creator: May, Joel M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BROWN AND CALDWELL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-22320-1

Login Number: 22360

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-22465-1

Job Description: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, NJ 07401

Attention: Ms. Carolyn A Spinapolice

Approved for release.
Joe Giacomazza
Project Administrator
7/23/2012 11:47 AM

Designee for
Brian Fischer
Project Manager II
brian.fischer@testamericainc.com
07/23/2012

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-22465-1

Receipt
The samples were received on 7/12/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1º C.

Metals
Method 7470A: The following sample was diluted to bring the concentration of the target analyte total mercury within the calibration range: MR-GW-1SS-DP-11-10-14-T (480-22465-11). Elevated reporting limits (RLs) are provided. Sample dilution was preformed using .1mls samples and 9.9mls blank solution with a final volume of 10mls. 1:100 dilution.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-22465-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-22465-1	MR-GW-1SS-DP-10-52-56-T	Water	07/11/2012 0840	07/12/2012 0900
480-22465-2	MR-GW-1SS-DP-10-52-56-D	Water	07/11/2012 0840	07/12/2012 0900
480-22465-3	MR-GW-1SS-DP-10-62-66-T	Water	07/11/2012 1000	07/12/2012 0900
480-22465-4	MR-GW-1SS-DP-10-62-66-D	Water	07/11/2012 1000	07/12/2012 0900
480-22465-5	MR-GW-1SS-DP-11-20-24-T	Water	07/11/2012 1135	07/12/2012 0900
480-22465-6	MR-GW-1SS-DP-11-20-24-D	Water	07/11/2012 1135	07/12/2012 0900
480-22465-7	MR-GW-1SS-DP-11-30-34-T	Water	07/11/2012 1205	07/12/2012 0900
480-22465-8	MR-GW-1SS-DP-11-30-34-D	Water	07/11/2012 1205	07/12/2012 0900
480-22465-9	MR-GW-1SS-DP-11-40-44-T	Water	07/11/2012 1450	07/12/2012 0900
480-22465-10	MR-GW-1SS-DP-11-40-44-D	Water	07/11/2012 1450	07/12/2012 0900
480-22465-11	MR-GW-1SS-DP-11-10-14-T	Water	07/11/2012 1220	07/12/2012 0900
480-22465-12	MR-GW-1SS-DP-11-10-14-D	Water	07/11/2012 1220	07/12/2012 0900
480-22465-13	MR-FB-071112-T	Water	07/11/2012 1515	07/12/2012 0900
480-22465-14	MR-FB-071112-D	Water	07/11/2012 1515	07/12/2012 0900
480-22465-15	MR-GW-1SS-DP-11-50-54-T	Water	07/11/2012 1600	07/12/2012 0900
480-22465-16	MR-GW-1SS-DP-11-50-54-D	Water	07/11/2012 1600	07/12/2012 0900

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-22465-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-22465-3	**MR-GW-1SS-DP-10-62-66-T**					
Mercury, Total		16.1		0.20	ug/L	7470A
480-22465-4	**MR-GW-1SS-DP-10-62-66-D**					
Dissolved						
Mercury, Dissolved		0.46		0.20	ug/L	7470A
480-22465-5	**MR-GW-1SS-DP-11-20-24-T**					
Mercury, Total		0.91		0.20	ug/L	7470A
480-22465-6	**MR-GW-1SS-DP-11-20-24-D**					
Dissolved						
Mercury, Dissolved		0.21		0.20	ug/L	7470A
480-22465-11	**MR-GW-1SS-DP-11-10-14-T**					
Mercury, Total		993		20.0	ug/L	7470A
480-22465-12	**MR-GW-1SS-DP-11-10-14-D**					
Dissolved						
Mercury, Dissolved		3.3		0.20	ug/L	7470A

METHOD SUMMARY

Client: Brown and Caldwell

Job Number: 480-22465-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Brown and Caldwell

Job Number: 480-22465-1

Method	Analyst	Analyst ID
SW846 7470A	Kacalski, Jason	JRK

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-10-52-56-T**

Lab Sample ID: 480-22465-1

Client Matrix: Water

Date Sampled: 07/11/2012 0840

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1153			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-10-52-56-D**

Lab Sample ID: 480-22465-2

Client Matrix: Water

Date Sampled: 07/11/2012 0840

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1205			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-10-62-66-T**

Lab Sample ID: 480-22465-3

Client Matrix: Water

Date Sampled: 07/11/2012 1000

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72777	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72657	Lab File ID:	J07172W2.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/17/2012 1427			Final Weight/Volume:	50 mL
Prep Date:	07/17/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	16.1		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-10-62-66-D**

Lab Sample ID: 480-22465-4

Client Matrix: Water

Date Sampled: 07/11/2012 1000

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1212			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	0.46		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-11-20-24-T**

Lab Sample ID: 480-22465-5

Client Matrix: Water

Date Sampled: 07/11/2012 1135

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1201			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.91		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-11-20-24-D**

Lab Sample ID: 480-22465-6

Client Matrix: Water

Date Sampled: 07/11/2012 1135

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1215			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	0.21		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-11-30-34-T**

Lab Sample ID: 480-22465-7

Client Matrix: Water

Date Sampled: 07/11/2012 1205

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1203			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-11-30-34-D**

Lab Sample ID: 480-22465-8

Client Matrix: Water

Date Sampled: 07/11/2012 1205

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1217			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-11-40-44-T**

Lab Sample ID: 480-22465-9

Client Matrix: Water

Date Sampled: 07/11/2012 1450

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1205			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-11-40-44-D**

Lab Sample ID: 480-22465-10

Client Matrix: Water

Date Sampled: 07/11/2012 1450

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1218			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-11-10-14-T**

Lab Sample ID: 480-22465-11

Client Matrix: Water

Date Sampled: 07/11/2012 1220

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	100			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1513			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	993		20.0

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-11-10-14-D**

Lab Sample ID: 480-22465-12

Client Matrix: Water

Date Sampled: 07/11/2012 1220

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1224			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	3.3		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-FB-071112-T**

Lab Sample ID: 480-22465-13

Client Matrix: Water

Date Sampled: 07/11/2012 1515

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1224			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-FB-071112-D**

Lab Sample ID: 480-22465-14

Client Matrix: Water

Date Sampled: 07/11/2012 1515

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1226			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-11-50-54-T**

Lab Sample ID: 480-22465-15

Client Matrix: Water

Date Sampled: 07/11/2012 1600

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1225			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Client Sample ID: **MR-GW-1SS-DP-11-50-54-D**

Lab Sample ID: 480-22465-16

Client Matrix: Water

Date Sampled: 07/11/2012 1600

Date Received: 07/12/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1227			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22465-1

Method Blank - Batch: 480-72226

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-72226/1-A	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1150	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-72226

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-72226/2-A	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1151	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.85	103	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-72226

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-22465-1	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1156			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				
Leach Date:	N/A				

MSD Lab Sample ID:	480-22465-1	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1158			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Total	103	103	75 - 125	0	20		

Client: Brown and Caldwell

Job Number: 480-22465-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-72226

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-22465-1	Units: ug/L	MSD Lab Sample ID:	480-22465-1
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	07/13/2012 1156		Analysis Date:	07/13/2012 1158
Prep Date:	07/13/2012 0749		Prep Date:	07/13/2012 0749
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury, Total	ND	6.67	6.67	6.85	6.85

Serial Dilution - Batch: 480-72226

Method: 7470A
Preparation: 7470A

Lab Sample ID:	480-22465-1	Analysis Batch:	480-72343	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72226	Lab File ID:	H07132W1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1155	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0749				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Total	ND	ND	NC	10	

Client: Brown and Caldwell

Job Number: 480-22465-1

Method Blank - Batch: 480-72247

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	MB 480-72057/9-B	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1202	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Dissolved	ND		0.20

Lab Control Sample - Batch: 480-72247

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	LCS 480-72057/10-B	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1203	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Dissolved	6.67	6.65	100	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-72247

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	480-22465-2	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1209			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				
Leach Date:	N/A				

MSD Lab Sample ID:	480-22465-2	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1210			Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Dissolved	99	100	75 - 125	1	20		

Client: Brown and Caldwell

Job Number: 480-22465-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-72247

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	480-22465-2	Units: ug/L	MSD Lab Sample ID:	480-22465-2
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	07/13/2012 1209		Analysis Date:	07/13/2012 1210
Prep Date:	07/13/2012 0855		Prep Date:	07/13/2012 0855
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury, Dissolved	ND	6.67	6.67	6.63	6.67

Serial Dilution - Batch: 480-72247

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	480-22465-2	Analysis Batch:	480-72292	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72247	Lab File ID:	J07132D1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/13/2012 1207	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/13/2012 0855				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Dissolved	ND	ND	NC	10	

Client: Brown and Caldwell

Job Number: 480-22465-1

Method Blank - Batch: 480-72657

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-72657/1-A	Analysis Batch:	480-72777	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72657	Lab File ID:	J07172W2.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/17/2012 1424	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/17/2012 0855				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-72657

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-72657/2-A	Analysis Batch:	480-72777	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72657	Lab File ID:	J07172W2.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/17/2012 1426	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/17/2012 0855				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.63	99	80 - 120	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Brown and Caldwell

Job Number: 480-22465-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-72226					
LCS 480-72226/2-A	Lab Control Sample	T	Water	7470A	
MB 480-72226/1-A	Method Blank	T	Water	7470A	
480-22465-1	MR-GW-1SS-DP-10-52-56-T	T	Water	7470A	
480-22465-1MS	Matrix Spike	T	Water	7470A	
480-22465-1MSD	Matrix Spike Duplicate	T	Water	7470A	
480-22465-3	MR-GW-1SS-DP-10-62-66-T	T	Water	7470A	
480-22465-5	MR-GW-1SS-DP-11-20-24-T	T	Water	7470A	
480-22465-7	MR-GW-1SS-DP-11-30-34-T	T	Water	7470A	
480-22465-9	MR-GW-1SS-DP-11-40-44-T	T	Water	7470A	
480-22465-11	MR-GW-1SS-DP-11-10-14-T	T	Water	7470A	
480-22465-13	MR-FB-071112-T	T	Water	7470A	
480-22465-15	MR-GW-1SS-DP-11-50-54-T	T	Water	7470A	
Prep Batch: 480-72247					
LCS 480-72057/10-B	Lab Control Sample	D	Water	7470A	
MB 480-72057/9-B	Method Blank	D	Water	7470A	
480-22465-2	MR-GW-1SS-DP-10-52-56-D	D	Water	7470A	
480-22465-2MS	Matrix Spike	D	Water	7470A	
480-22465-2MSD	Matrix Spike Duplicate	D	Water	7470A	
480-22465-4	MR-GW-1SS-DP-10-62-66-D	D	Water	7470A	
480-22465-6	MR-GW-1SS-DP-11-20-24-D	D	Water	7470A	
480-22465-8	MR-GW-1SS-DP-11-30-34-D	D	Water	7470A	
480-22465-10	MR-GW-1SS-DP-11-40-44-D	D	Water	7470A	
480-22465-12	MR-GW-1SS-DP-11-10-14-D	D	Water	7470A	
480-22465-14	MR-FB-071112-D	D	Water	7470A	
480-22465-16	MR-GW-1SS-DP-11-50-54-D	D	Water	7470A	
Analysis Batch:480-72292					
LCS 480-72057/10-B	Lab Control Sample	D	Water	7470A	480-72247
MB 480-72057/9-B	Method Blank	D	Water	7470A	480-72247
480-22465-2	MR-GW-1SS-DP-10-52-56-D	D	Water	7470A	480-72247
480-22465-2MS	Matrix Spike	D	Water	7470A	480-72247
480-22465-2MSD	Matrix Spike Duplicate	D	Water	7470A	480-72247
480-22465-4	MR-GW-1SS-DP-10-62-66-D	D	Water	7470A	480-72247
480-22465-6	MR-GW-1SS-DP-11-20-24-D	D	Water	7470A	480-72247
480-22465-8	MR-GW-1SS-DP-11-30-34-D	D	Water	7470A	480-72247
480-22465-10	MR-GW-1SS-DP-11-40-44-D	D	Water	7470A	480-72247
480-22465-12	MR-GW-1SS-DP-11-10-14-D	D	Water	7470A	480-72247
480-22465-14	MR-FB-071112-D	D	Water	7470A	480-72247
480-22465-16	MR-GW-1SS-DP-11-50-54-D	D	Water	7470A	480-72247

Client: Brown and Caldwell

Job Number: 480-22465-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-72343					
LCS 480-72226/2-A	Lab Control Sample	T	Water	7470A	480-72226
MB 480-72226/1-A	Method Blank	T	Water	7470A	480-72226
480-22465-1	MR-GW-1SS-DP-10-52-56-T	T	Water	7470A	480-72226
480-22465-1MS	Matrix Spike	T	Water	7470A	480-72226
480-22465-1MSD	Matrix Spike Duplicate	T	Water	7470A	480-72226
480-22465-3	MR-GW-1SS-DP-10-62-66-T	T	Water	7470A	480-72226
480-22465-5	MR-GW-1SS-DP-11-20-24-T	T	Water	7470A	480-72226
480-22465-7	MR-GW-1SS-DP-11-30-34-T	T	Water	7470A	480-72226
480-22465-9	MR-GW-1SS-DP-11-40-44-T	T	Water	7470A	480-72226
480-22465-11	MR-GW-1SS-DP-11-10-14-T	T	Water	7470A	480-72226
480-22465-13	MR-FB-071112-T	T	Water	7470A	480-72226
480-22465-15	MR-GW-1SS-DP-11-50-54-T	T	Water	7470A	480-72226
Prep Batch: 480-72657					
LCS 480-72657/2-A	Lab Control Sample	T	Water	7470A	
MB 480-72657/1-A	Method Blank	T	Water	7470A	
480-22465-3	MR-GW-1SS-DP-10-62-66-T	T	Water	7470A	
Analysis Batch:480-72777					
LCS 480-72657/2-A	Lab Control Sample	T	Water	7470A	480-72657
MB 480-72657/1-A	Method Blank	T	Water	7470A	480-72657
480-22465-3	MR-GW-1SS-DP-10-62-66-T	T	Water	7470A	480-72657

Report Basis

D = Dissolved

T = Total

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-22465-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Client: Brown and Caldwell

Job Number: 480-22465-1

Laboratory Chronicle

Lab ID: **480-22465-1** **Client ID:** **MR-GW-1SS-DP-10-52-56-T**

Sample Date/Time: 07/11/2012 08:40 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-1-A		480-72343	480-72226	07/13/2012 07:49	1	TAL BUF	JRK
A:7470A	480-22465-A-1-A		480-72343	480-72226	07/13/2012 11:53	1	TAL BUF	JRK

Lab ID: **480-22465-1 MS** **Client ID:** **MR-GW-1SS-DP-10-52-56-T**

Sample Date/Time: 07/11/2012 08:40 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-1-B MS		480-72343	480-72226	07/13/2012 07:49	1	TAL BUF	JRK
A:7470A	480-22465-A-1-B MS		480-72343	480-72226	07/13/2012 11:56	1	TAL BUF	JRK

Lab ID: **480-22465-1 MSD** **Client ID:** **MR-GW-1SS-DP-10-52-56-T**

Sample Date/Time: 07/11/2012 08:40 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-1-C MSD		480-72343	480-72226	07/13/2012 07:49	1	TAL BUF	JRK
A:7470A	480-22465-A-1-C MSD		480-72343	480-72226	07/13/2012 11:58	1	TAL BUF	JRK

Lab ID: **480-22465-1 SD** **Client ID:** **MR-GW-1SS-DP-10-52-56-T**

Sample Date/Time: 07/11/2012 08:40 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-1-A SD ^5		480-72343	480-72226	07/13/2012 07:49	5	TAL BUF	JRK
A:7470A	480-22465-A-1-A SD ^5		480-72343	480-72226	07/13/2012 11:55	5	TAL BUF	JRK

Lab ID: **480-22465-2** **Client ID:** **MR-GW-1SS-DP-10-52-56-D**

Sample Date/Time: 07/11/2012 08:40 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-2-A		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-2-A		480-72292	480-72247	07/13/2012 12:05	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22465-1

Laboratory Chronicle

Lab ID: **480-22465-2 MS** **Client ID:** **MR-GW-1SS-DP-10-52-56-D**

Sample Date/Time: 07/11/2012 08:40 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-2-B MS		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-2-B MS		480-72292	480-72247	07/13/2012 12:09	1	TAL BUF	JRK

Lab ID: **480-22465-2 MSD** **Client ID:** **MR-GW-1SS-DP-10-52-56-D**

Sample Date/Time: 07/11/2012 08:40 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-2-C MSD		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-2-C MSD		480-72292	480-72247	07/13/2012 12:10	1	TAL BUF	JRK

Lab ID: **480-22465-2 SD** **Client ID:** **MR-GW-1SS-DP-10-52-56-D**

Sample Date/Time: 07/11/2012 08:40 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-2-A SD ^5		480-72292	480-72247	07/13/2012 08:55	5	TAL BUF	JRK
A:7470A	480-22465-A-2-A SD ^5		480-72292	480-72247	07/13/2012 12:07	5	TAL BUF	JRK

Lab ID: **480-22465-3** **Client ID:** **MR-GW-1SS-DP-10-62-66-T**

Sample Date/Time: 07/11/2012 10:00 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-3-B		480-72777	480-72657	07/17/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-3-B		480-72777	480-72657	07/17/2012 14:27	1	TAL BUF	JRK

Lab ID: **480-22465-4** **Client ID:** **MR-GW-1SS-DP-10-62-66-D**

Sample Date/Time: 07/11/2012 10:00 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-4-A		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-4-A		480-72292	480-72247	07/13/2012 12:12	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22465-1

Laboratory Chronicle

Lab ID: 480-22465-5 **Client ID:** MR-GW-1SS-DP-11-20-24-T

Sample Date/Time: 07/11/2012 11:35 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-5-A		480-72343	480-72226	07/13/2012 07:49	1	TAL BUF	JRK
A:7470A	480-22465-A-5-A		480-72343	480-72226	07/13/2012 12:01	1	TAL BUF	JRK

Lab ID: 480-22465-6 **Client ID:** MR-GW-1SS-DP-11-20-24-D

Sample Date/Time: 07/11/2012 11:35 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-6-A		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-6-A		480-72292	480-72247	07/13/2012 12:15	1	TAL BUF	JRK

Lab ID: 480-22465-7 **Client ID:** MR-GW-1SS-DP-11-30-34-T

Sample Date/Time: 07/11/2012 12:05 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-7-A		480-72343	480-72226	07/13/2012 07:49	1	TAL BUF	JRK
A:7470A	480-22465-A-7-A		480-72343	480-72226	07/13/2012 12:03	1	TAL BUF	JRK

Lab ID: 480-22465-8 **Client ID:** MR-GW-1SS-DP-11-30-34-D

Sample Date/Time: 07/11/2012 12:05 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-8-A		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-8-A		480-72292	480-72247	07/13/2012 12:17	1	TAL BUF	JRK

Lab ID: 480-22465-9 **Client ID:** MR-GW-1SS-DP-11-40-44-T

Sample Date/Time: 07/11/2012 14:50 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-9-A		480-72343	480-72226	07/13/2012 07:49	1	TAL BUF	JRK
A:7470A	480-22465-A-9-A		480-72343	480-72226	07/13/2012 12:05	1	TAL BUF	JRK

Lab ID: 480-22465-10 **Client ID:** MR-GW-1SS-DP-11-40-44-D

Sample Date/Time: 07/11/2012 14:50 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-10-A		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-10-A		480-72292	480-72247	07/13/2012 12:18	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22465-1

Laboratory Chronicle

Lab ID: 480-22465-11 **Client ID:** MR-GW-1SS-DP-11-10-14-T

Sample Date/Time: 07/11/2012 12:20 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-11-A ^100		480-72343	480-72226	07/13/2012 07:49	100	TAL BUF	JRK
A:7470A	480-22465-A-11-A ^100		480-72343	480-72226	07/13/2012 15:13	100	TAL BUF	JRK

Lab ID: 480-22465-12 **Client ID:** MR-GW-1SS-DP-11-10-14-D

Sample Date/Time: 07/11/2012 12:20 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-12-A		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-12-A		480-72292	480-72247	07/13/2012 12:24	1	TAL BUF	JRK

Lab ID: 480-22465-13 **Client ID:** MR-FB-071112-T

Sample Date/Time: 07/11/2012 15:15 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-13-A		480-72343	480-72226	07/13/2012 07:49	1	TAL BUF	JRK
A:7470A	480-22465-A-13-A		480-72343	480-72226	07/13/2012 12:24	1	TAL BUF	JRK

Lab ID: 480-22465-14 **Client ID:** MR-FB-071112-D

Sample Date/Time: 07/11/2012 15:15 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-14-A		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-14-A		480-72292	480-72247	07/13/2012 12:26	1	TAL BUF	JRK

Lab ID: 480-22465-15 **Client ID:** MR-GW-1SS-DP-11-50-54-T

Sample Date/Time: 07/11/2012 16:00 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-15-A		480-72343	480-72226	07/13/2012 07:49	1	TAL BUF	JRK
A:7470A	480-22465-A-15-A		480-72343	480-72226	07/13/2012 12:25	1	TAL BUF	JRK

Lab ID: 480-22465-16 **Client ID:** MR-GW-1SS-DP-11-50-54-D

Sample Date/Time: 07/11/2012 16:00 Received Date/Time: 07/12/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22465-A-16-A		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	480-22465-A-16-A		480-72292	480-72247	07/13/2012 12:27	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22465-1

Laboratory Chronicle

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	MB 480-72226/1-A		480-72343	480-72226	07/13/2012 07:49	1	TAL BUF	JRK
A:7470A	MB 480-72226/1-A		480-72343	480-72226	07/13/2012 11:50	1	TAL BUF	JRK
P:7470A	MB 480-72057/9-B		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	MB 480-72057/9-B		480-72292	480-72247	07/13/2012 12:02	1	TAL BUF	JRK
P:7470A	MB 480-72657/1-A		480-72777	480-72657	07/17/2012 08:55	1	TAL BUF	JRK
A:7470A	MB 480-72657/1-A		480-72777	480-72657	07/17/2012 14:24	1	TAL BUF	JRK

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LCS 480-72226/2-A		480-72343	480-72226	07/13/2012 07:49	1	TAL BUF	JRK
A:7470A	LCS 480-72226/2-A		480-72343	480-72226	07/13/2012 11:51	1	TAL BUF	JRK
P:7470A	LCS 480-72057/10-B		480-72292	480-72247	07/13/2012 08:55	1	TAL BUF	JRK
A:7470A	LCS 480-72057/10-B		480-72292	480-72247	07/13/2012 12:03	1	TAL BUF	JRK
P:7470A	LCS 480-72657/2-A		480-72777	480-72657	07/17/2012 08:55	1	TAL BUF	JRK
A:7470A	LCS 480-72657/2-A		480-72777	480-72657	07/17/2012 14:26	1	TAL BUF	JRK

Lab References:

TAL BUF = TestAmerica Buffalo

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22465-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-GW-1SS-DP-10-52-56-T	480-22465-1
MR-GW-1SS-DP-10-52-56-D	480-22465-2
MR-GW-1SS-DP-10-62-66-T	480-22465-3
MR-GW-1SS-DP-10-62-66-D	480-22465-4
MR-GW-1SS-DP-11-20-24-T	480-22465-5
MR-GW-1SS-DP-11-20-24-D	480-22465-6
MR-GW-1SS-DP-11-30-34-T	480-22465-7
MR-GW-1SS-DP-11-30-34-D	480-22465-8
MR-GW-1SS-DP-11-40-44-T	480-22465-9
MR-GW-1SS-DP-11-40-44-D	480-22465-10
MR-GW-1SS-DP-11-10-14-T	480-22465-11
MR-GW-1SS-DP-11-10-14-D	480-22465-12
MR-FB-071112-T	480-22465-13
MR-FB-071112-D	480-22465-14
MR-GW-1SS-DP-11-50-54-T	480-22465-15
MR-GW-1SS-DP-11-50-54-D	480-22465-16

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-10-52-56-T
Lab Sample ID: 480-22465-1
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 08:40
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-10-52-56-D
Lab Sample ID: 480-22465-2
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 08:40
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-10-62-66-T

Lab Sample ID: 480-22465-3

Lab Name: TestAmerica Buffalo

Job No.: 480-22465-1

SDG ID.:

Matrix: Water

Date Sampled: 07/11/2012 10:00

Reporting Basis: WET

Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	16.1	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-10-62-66-D
Lab Sample ID: 480-22465-4
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 10:00
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	0.46	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-11-20-24-T

Lab Sample ID: 480-22465-5

Lab Name: TestAmerica Buffalo

Job No.: 480-22465-1

SDG ID.:

Matrix: Water

Date Sampled: 07/11/2012 11:35

Reporting Basis: WET

Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.91	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-11-20-24-D
Lab Sample ID: 480-22465-6
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 11:35
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	0.21	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-11-30-34-T

Lab Sample ID: 480-22465-7

Lab Name: TestAmerica Buffalo

Job No.: 480-22465-1

SDG ID.:

Matrix: Water

Date Sampled: 07/11/2012 12:05

Reporting Basis: WET

Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-11-30-34-D
Lab Sample ID: 480-22465-8
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 12:05
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-11-40-44-T
Lab Sample ID: 480-22465-9
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 14:50
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-11-40-44-D
Lab Sample ID: 480-22465-10
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 14:50
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-11-10-14-T

Lab Sample ID: 480-22465-11

Lab Name: TestAmerica Buffalo

Job No.: 480-22465-1

SDG ID.:

Matrix: Water

Date Sampled: 07/11/2012 12:20

Reporting Basis: WET

Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	993	20.0	12.0	ug/L			100	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-11-10-14-D
Lab Sample ID: 480-22465-12
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 12:20
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	3.3	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-FB-071112-T
Lab Sample ID: 480-22465-13
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 15:15
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-FB-071112-D
Lab Sample ID: 480-22465-14
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 15:15
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-1SS-DP-11-50-54-T

Lab Sample ID: 480-22465-15

Lab Name: TestAmerica Buffalo

Job No.: 480-22465-1

SDG ID.:

Matrix: Water

Date Sampled: 07/11/2012 16:00

Reporting Basis: WET

Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-1SS-DP-11-50-54-D
Lab Sample ID: 480-22465-16
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG ID.:
Matrix: Water
Date Sampled: 07/11/2012 16:00
Reporting Basis: WET
Date Received: 07/12/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

ICV Source: MEH_HG2_WKG_00136 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00136

Analyte	ICV 480-72343/1 07/13/2012 11:41				CCV 480-72343/4 07/13/2012 11:46				CCV 480-72343/16 07/13/2012 12:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00302		0.00300	101	0.00205		0.00200	103	0.00204		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

ICV Source: MEH_HG2_WKG_00136 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00136

Analyte	CCV 480-72343/28 07/13/2012 12:39				CCV 480-72343/97 07/13/2012 15:08				CCV 480-72343/102 07/13/2012 15:17			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00206		0.00200	103	0.00203		0.00200	102	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

ICV Source: MEH_HG2_WKG_00136 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00136

Analyte	ICV 480-72292/1 07/13/2012 11:52				CCV 480-72292/4 07/13/2012 11:58				CCV 480-72292/16 07/13/2012 12:20			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00302		0.00300	101	0.00204		0.00200	102	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

ICV Source: MEH_HG2_WKG_00136 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00136

Analyte	CCV 480-72292/27 07/13/2012 12:40											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00202		0.00200	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

ICV Source: MEH_HG2_WKG_00140 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00140

Analyte	ICV 480-72777/1 07/17/2012 13:53				CCV 480-72777/6 07/17/2012 14:19				CCV 480-72777/11 07/17/2012 14:42			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00305		0.00300	102	0.00209		0.00200	105	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN2

Lab Sample ID: CRA 480-72343/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00136

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		78	50-150

Lab Sample ID: CRA 480-72343/101 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00136

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		74	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN3

Lab Sample ID: CRA 480-72292/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00136

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Dissolved	0.000200	ND		82	50-150

Lab Sample ID: CRA 480-72777/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00140

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		77	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-72343/2 07/13/2012 11:42		CCB 480-72343/5 07/13/2012 11:48		CCB 480-72343/17 07/13/2012 12:08		CCB 480-72343/29 07/13/2012 12:41	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-72343/98 07/13/2012 15:10		CCB 480-72343/103 07/13/2012 15:19					
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-72292/2 07/13/2012 11:54		CCB 480-72292/5 07/13/2012 12:00		CCB 480-72292/17 07/13/2012 12:22		CCB 480-72292/28 07/13/2012 12:42	
		Found	C	Found	C	Found	C	Found	C
Mercury, Dissolved	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-72777/2 07/17/2012 13:55		CCB 480-72777/7 07/17/2012 14:22		CCB 480-72777/12 07/17/2012 14:44			
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-72057/9-B

Instrument Code: LEEMAN3 Batch No.: 72292

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Dissolved	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-72226/1-A

Instrument Code: LEEMAN2 Batch No.: 72343

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-72657/1-A

Instrument Code: LEEMAN3 Batch No.: 72777

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MR-GW-1SS-DP-10-52-56-T MS

Lab ID: 480-22465-1 MS

Lab Name: TestAmerica Buffalo

Job No.: 480-22465-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Total	6.85		ND		6.67	103	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MR-GW-1SS-DP-10-52-56-D MS
Lab ID: 480-22465-2 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Dissolved	6.63		ND		6.67	99	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MR-GW-1SS-DP-10-52-56-T MSD Lab ID: 480-22465-1 MSD

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Total	6.85		6.67	103	75-125	0	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MR-GW-1SS-DP-10-52-56-D MSD
Lab ID: 480-22465-2 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-22465-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Dissolved	6.67		6.67	100	75-125	1	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-72057/10-B

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00136

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Dissolved	6.67	6.65		100	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-72226/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00136

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.85		103	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-72657/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00140

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.63		99	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-22465-1

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-22465-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Total	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 480-22465-2

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-22465-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Dissolved	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22465-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22465-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22465-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22465-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-22465-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Dissolved	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-22465-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Dissolved	253.7	0.0002	0.00012

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-22465-1

SDG No.:

Instrument ID: LEEMAN2 Date: 03/20/2012 10:04

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Total	10	10	7470A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-22465-1

SDG No.:

Instrument ID: LEEMAN3 Date: 03/20/2012 10:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Dissolved	10	10	7470A
Mercury, Total	10	10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-72226/1-A	07/13/2012 07:49	72226		30	50
LCS 480-72226/2-A	07/13/2012 07:49	72226		30	50
480-22465-1	07/13/2012 07:49	72226		30	50
480-22465-1 MS	07/13/2012 07:49	72226		30	50
480-22465-1 MSD	07/13/2012 07:49	72226		30	50
480-22465-5	07/13/2012 07:49	72226		30	50
480-22465-7	07/13/2012 07:49	72226		30	50
480-22465-9	07/13/2012 07:49	72226		30	50
480-22465-11	07/13/2012 07:49	72226		30	50
480-22465-13	07/13/2012 07:49	72226		30	50
480-22465-15	07/13/2012 07:49	72226		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-72057/9-B	07/13/2012 08:55	72247		30	50
LCS 480-72057/10-B	07/13/2012 08:55	72247		30	50
480-22465-2	07/13/2012 08:55	72247		30	50
480-22465-2 MS	07/13/2012 08:55	72247		30	50
480-22465-2 MSD	07/13/2012 08:55	72247		30	50
480-22465-4	07/13/2012 08:55	72247		30	50
480-22465-6	07/13/2012 08:55	72247		30	50
480-22465-8	07/13/2012 08:55	72247		30	50
480-22465-10	07/13/2012 08:55	72247		30	50
480-22465-12	07/13/2012 08:55	72247		30	50
480-22465-14	07/13/2012 08:55	72247		30	50
480-22465-16	07/13/2012 08:55	72247		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-72657/1-A	07/17/2012 08:55	72657		30	50
LCS 480-72657/2-A	07/17/2012 08:55	72657		30	50
480-22465-3	07/17/2012 08:55	72657		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/13/2012 11:41 End Date: 07/13/2012 15:19

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-72343/1	1		11:41	X																			
ICB 480-72343/2	1		11:42	X																			
CRA 480-72343/3	1		11:44	X																			
CCV 480-72343/4	1		11:46	X																			
CCB 480-72343/5	1		11:48	X																			
MB 480-72226/1-A	1	T	11:50	X																			
LCS 480-72226/2-A	1	T	11:51	X																			
480-22465-1	1	T	11:53	X																			
480-22465-1 SD	5	T	11:55	X																			
480-22465-1 MS	1	T	11:56	X																			
480-22465-1 MSD	1	T	11:58	X																			
ZZZZZZ			12:00																				
480-22465-5	1	T	12:01	X																			
480-22465-7	1	T	12:03	X																			
480-22465-9	1	T	12:05	X																			
CCV 480-72343/16	1		12:06	X																			
CCB 480-72343/17	1		12:08	X																			
ZZZZZZ			12:22																				
480-22465-13	1	T	12:24	X																			
480-22465-15	1	T	12:25	X																			
ZZZZZZ			12:27																				
ZZZZZZ			12:29																				
ZZZZZZ			12:30																				
ZZZZZZ			12:32																				
ZZZZZZ			12:34																				
ZZZZZZ			12:36																				
ZZZZZZ			12:37																				
CCV 480-72343/28	1		12:39	X																			
CCB 480-72343/29	1		12:41	X																			
ZZZZZZ			12:43																				
ZZZZZZ			12:45																				
ZZZZZZ			12:46																				
ZZZZZZ			12:48																				
ZZZZZZ			12:50																				
ZZZZZZ			12:51																				
ZZZZZZ			12:53																				
ZZZZZZ			12:55																				
ZZZZZZ			12:56																				
ZZZZZZ			12:58																				
CCV 480-72343/40			13:00																				
CCB 480-72343/41			13:02																				
ZZZZZZ			13:03																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/13/2012 11:41 End Date: 07/13/2012 15:19

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			13:05																				
ZZZZZZ			13:07																				
ZZZZZZ			13:09																				
ZZZZZZ			13:11																				
ZZZZZZ			13:12																				
ZZZZZZ			13:14																				
ZZZZZZ			13:16																				
ZZZZZZ			13:17																				
ZZZZZZ			13:19																				
CCV 480-72343/52			13:21																				
CCB 480-72343/53			13:22																				
ZZZZZZ			13:24																				
ZZZZZZ			13:26																				
ZZZZZZ			13:27																				
ZZZZZZ			13:29																				
ZZZZZZ			13:30																				
ZZZZZZ			13:32																				
ZZZZZZ			13:34																				
ZZZZZZ			13:35																				
ZZZZZZ			13:37																				
ZZZZZZ			13:39																				
CCV 480-72343/64			13:40																				
CCB 480-72343/65			13:42																				
ZZZZZZ			13:44																				
ZZZZZZ			13:46																				
ZZZZZZ			13:47																				
ZZZZZZ			13:49																				
ZZZZZZ			13:51																				
ZZZZZZ			13:53																				
ZZZZZZ			13:54																				
ZZZZZZ			13:56																				
ZZZZZZ			13:57																				
ZZZZZZ			13:59																				
CCV 480-72343/76			14:01																				
CCB 480-72343/77			14:03																				
ZZZZZZ			14:05																				
ZZZZZZ			14:06																				
ZZZZZZ			14:08																				
ZZZZZZ			14:10																				
ZZZZZZ			14:24																				
ZZZZZZ			14:25																				
ZZZZZZ			14:27																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/13/2012 11:41 End Date: 07/13/2012 15:19

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:29																				
ZZZZZZ			14:30																				
CCV 480-72343/87			14:45																				
CCB 480-72343/88			14:47																				
ZZZZZZ			14:49																				
ZZZZZZ			14:56																				
ZZZZZZ			14:58																				
ZZZZZZ			15:00																				
ZZZZZZ			15:01																				
ZZZZZZ			15:03																				
ZZZZZZ			15:05																				
ZZZZZZ			15:07																				
CCV 480-72343/97	1		15:08	X																			
CCB 480-72343/98	1		15:10	X																			
ZZZZZZ			15:12																				
480-22465-11	100	T	15:13	X																			
CRA 480-72343/101	1		15:15	X																			
CCV 480-72343/102	1		15:17	X																			
CCB 480-72343/103	1		15:19	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/13/2012 11:52 End Date: 07/13/2012 12:42

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-72292/1	1		11:52	X																			
ICB 480-72292/2	1		11:54	X																			
CRA 480-72292/3	1		11:56	X																			
CCV 480-72292/4	1		11:58	X																			
CCB 480-72292/5	1		12:00	X																			
MB 480-72057/9-B	1	D	12:02	X																			
LCS 480-72057/10-B	1	D	12:03	X																			
480-22465-2	1	D	12:05	X																			
480-22465-2 SD	5	D	12:07	X																			
480-22465-2 MS	1	D	12:09	X																			
480-22465-2 MSD	1	D	12:10	X																			
480-22465-4	1	D	12:12	X																			
480-22465-6	1	D	12:15	X																			
480-22465-8	1	D	12:17	X																			
480-22465-10	1	D	12:18	X																			
CCV 480-72292/16	1		12:20	X																			
CCB 480-72292/17	1		12:22	X																			
480-22465-12	1	D	12:24	X																			
480-22465-14	1	D	12:26	X																			
480-22465-16	1	D	12:27	X																			
ZZZZZZ			12:29																				
ZZZZZZ			12:31																				
ZZZZZZ			12:33																				
ZZZZZZ			12:34																				
ZZZZZZ			12:36																				
CRA 480-72292/26			12:38																				
CCV 480-72292/27	1		12:40	X																			
CCB 480-72292/28	1		12:42	X																			

Prep Types

D = Dissolved

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/17/2012 13:53 End Date: 07/17/2012 14:44

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-72777/1	1		13:53	X																			
ICB 480-72777/2	1		13:55	X																			
CRA 480-72777/3	1		13:57	X																			
CCV 480-72777/4			13:58																				
CCB 480-72777/5			14:00																				
CCV 480-72777/6	1		14:19	X																			
CCB 480-72777/7	1		14:22	X																			
MB 480-72657/1-A	1	T	14:24	X																			
LCS 480-72657/2-A	1	T	14:26	X																			
480-22465-3	1	T	14:27	X																			
CCV 480-72777/11	1		14:42	X																			
CCB 480-72777/12	1		14:44	X																			

Prep Types
T = Total/NA

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧ ?

Protocol hgppb

Dataset/Proto H07132W1/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.56878e-5

C -6.39025e-2

rho .999932

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs.
638942

Accepted

New

Include S8 Rep 1 2 3 4 5

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.047	-.047	1060	880	1987	234	958
02	.20000	.172	-.028	15067	1.26%	14860	15234	15107
03	1.0000	1.01	.014	68713	0.81%	68241	68575	69324
04	2.0000	2.04	.040	134133	0.63%	133733	133555	135109
05	5.0000	5.06	.061	326661	0.41%	328205	325960	325820
06	10.000	9.96	-.040	638943	0.06%	638743	639356	638730

Ready CAP NUM

L2
7/13/12

72267

Cal: H07132C1

Run: H07132W1

Batches: 72226
72227
72228

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

72267

*** Check Standard: 2 Ck2ICV Seq: 1 11:41:05 13 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	3.02	3.00	ppb	.000

*** Check Standard: 1 Ck1ICB Seq: 2 11:42:50 13 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.067	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 11:44:30 13 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		77.6	.155	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 11:46:18 13 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.05	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 11:48:08 13 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.058	.200	ppb	.000

*** Sample ID: Seq: 6 11:50:13 13 Jul 12 HG
mb 480-72226/1-a

Hg	-.048	ppb	.000	-.048

*** Sample ID: Seq: 7 11:51:51 13 Jul 12 HG
lcs 480-72226/2-a

Hg	4.11	ppb	.000	4.11

*** Sample ID: Seq: 8 11:53:26 13 Jul 12 HG
480-22465-a-1-a

Hg	.007	ppb	.000	.007

*** Sample ID: Seq: 9 11:55:03 13 Jul 12 HG
480-22465-a-1-a SD@5

Hg	-.024	ppb	.000	-.024

*** Sample ID: Seq: 10 11:56:50 13 Jul 12 HG
480-22465-a-1-b ms

Hg	4.11	ppb	.000	4.11

*** Sample ID: Seq: 11 11:58:35 13 Jul 12 HG
480-22465-a-1-c msd

Hg	4.11	ppb	.000	4.11

*** Sample ID: Seq: 12 12:00:12 13 Jul 12 HG
480-22465-a-3-a

Hg	-.040	ppb	.000	-.040

*** Sample ID: Seq: 13 12:01:53 13 Jul 12 HG
480-22465-a-5-a

Hg	.548	ppb	.000	.548

*** Sample ID: Seq: 14 12:03:30 13 Jul 12 HG
480-22465-a-7-a

Hg	-.036	ppb	.000	-.036

*** Sample ID: Seq: 15 12:05:16 13 Jul 12 HG
480-22465-a-9-a

Hg	.090	ppb	.000	.090

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV        Seq:  16      12:06:52 13 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.04    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  17      12:08:41 13 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.055     .200     ppb        .000

*** Sample ID:                        Seq:  18      12:22:26 13 Jul 12   HG
                          480-22465-a-11-a
RR 1:100
Hg    ^^^^^^O ppb       ^^^^^^    ^^^^^^

*** Sample ID:                        Seq:  19      12:24:03 13 Jul 12   HG
                          480-22465-a-13-a
Hg   -.050    ppb       .000     -.050

*** Sample ID:                        Seq:  20      12:25:42 13 Jul 12   HG
                          480-22465-a-15-a
Hg   -.038    ppb       .000     -.038

*** Sample ID:                        Seq:  21      12:27:18 13 Jul 12   HG
                          480-22384-g-5-b
Hg   -.029    ppb       .000     -.029

*** Sample ID:                        Seq:  22      12:29:03 13 Jul 12   HG
                          480-22384-g-6-b
Hg   -.048    ppb       .000     -.048

*** Sample ID:                        Seq:  23      12:30:48 13 Jul 12   HG
                          480-22456-m-21-b
Hg   -.038    ppb       .000     -.038

*** Sample ID:                        Seq:  24      12:32:37 13 Jul 12   HG
                          480-22471-d-5-b
Hg   -.049    ppb       .000     -.049

*** Sample ID:                        Seq:  25      12:34:34 13 Jul 12   HG
                          480-22471-d-6-b
Hg   -.053    ppb       .000     -.053

*** Sample ID:                        Seq:  26      12:36:11 13 Jul 12   HG
                          480-22471-d-7-b
Hg   -.074    ppb       .000     -.074

*** Sample ID:                        Seq:  27      12:37:48 13 Jul 12   HG
                          480-22471-d-8-b
Hg   -.054    ppb       .000     -.054

*** Check Standard: 3  Ck3CCV        Seq:  28      12:39:29 13 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     2.06    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  29      12:41:24 13 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.054     .200     ppb        .000

*** Sample ID:                        Seq:  30      12:43:32 13 Jul 12   HG
                          480-22471-d-9-b
Hg   -.054    ppb       .000     -.054
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                        Seq:  31     12:45:10 13 Jul 12   HG
                          480-22471-d-10-b
Hg   -.043    ppb       .000     -.043

*** Sample ID:                        Seq:  32     12:46:47 13 Jul 12   HG
                          480-22471-d-11-b
Hg   -.037    ppb       .000     -.037

*** Sample ID:                        Seq:  33     12:48:22 13 Jul 12   HG
                          480-22471-d-12-b
Hg   -.028    ppb       .000     -.028

*** Sample ID:                        Seq:  34     12:50:01 13 Jul 12   HG
                          mb 480-72227/1-a
Hg   -.053    ppb       .000     -.053

*** Sample ID:                        Seq:  35     12:51:36 13 Jul 12   HG
                          lcs 480-72227/2-a
Hg    3.99    ppb       .000      3.99

*** Sample ID:                        Seq:  36     12:53:13 13 Jul 12   HG
                          480-22456-m-1-c
Hg   -.052    ppb       .000     -.052

*** Sample ID:                        Seq:  37     12:55:10 13 Jul 12   HG
                          480-22456-m-2-c
Hg   -.055    ppb       .000     -.055

*** Sample ID:                        Seq:  38     12:56:49 13 Jul 12   HG
                          480-22456-m-3-c
Hg   -.049    ppb       .000     -.049

*** Sample ID:                        Seq:  39     12:58:27 13 Jul 12   HG
                          480-22456-m-4-c
Hg   -.053    ppb       .000     -.053

*** Check Standard: 3  Ck3CCV        Seq:  40     13:00:07 13 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.05    2.00  ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  41     13:02:02 13 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          -.052     .200     ppb        .000

*** Sample ID:                        Seq:  42     13:03:39 13 Jul 12   HG
                          480-22456-m-5-c
Hg   -.055    ppb       .000     -.055

*** Sample ID:                        Seq:  43     13:05:21 13 Jul 12   HG
                          480-22456-m-6-c
Hg   -.060    ppb       .000     -.060

*** Sample ID:                        Seq:  44     13:07:37 13 Jul 12   HG
                          480-22456-m-7-c
Hg   -.050    ppb       .000     -.050

*** Sample ID:                        Seq:  45     13:09:14 13 Jul 12   HG
                          480-22456-m-8-c
Hg   -.022    ppb       .000     -.022
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                        Seq:  46     13:11:02 13 Jul 12   HG
                          480-22456-m-9-c
Hg   -.057    ppb       .000     -.057

*** Sample ID:                        Seq:  47     13:12:52 13 Jul 12   HG
                          480-22456-m-10-c
Hg   -.046    ppb       .000     -.046

*** Sample ID:                        Seq:  48     13:14:28 13 Jul 12   HG
                          480-22456-m-11-c
Hg   -.055    ppb       .000     -.055

*** Sample ID:                        Seq:  49     13:16:05 13 Jul 12   HG
                          480-22456-m-12-c
Hg   -.036    ppb       .000     -.036

*** Sample ID:                        Seq:  50     13:17:51 13 Jul 12   HG
                          480-22456-m-13-c
Hg   -.051    ppb       .000     -.051

*** Sample ID:                        Seq:  51     13:19:27 13 Jul 12   HG
                          480-22456-m-14-c
Hg   -.020    ppb       .000     -.020

*** Check Standard: 3  Ck3CCV       Seq:  52     13:21:04 13 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.03    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  53     13:22:41 13 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          -.043     .200     ppb        .000

*** Sample ID:                        Seq:  54     13:24:17 13 Jul 12   HG
                          480-22456-m-15-c
Hg   -.051    ppb       .000     -.051

*** Sample ID:                        Seq:  55     13:26:05 13 Jul 12   HG
                          480-22456-m-16-c
Hg   -.058    ppb       .000     -.058

*** Sample ID:                        Seq:  56     13:27:43 13 Jul 12   HG
                          480-22456-m-17-c
Hg   -.069    ppb       .000     -.069

*** Sample ID:                        Seq:  57     13:29:20 13 Jul 12   HG
                          480-22456-m-18-c
Hg   -.075    ppb       .000     -.075

*** Sample ID:                        Seq:  58     13:30:57 13 Jul 12   HG
                          480-22456-m-19-g
Hg   -.021    ppb       .000     -.021

*** Sample ID:                        Seq:  59     13:32:33 13 Jul 12   HG
                          480-22456-m-19-g SD@
Hg   -.043    ppb       .000     -.043

*** Sample ID:                        Seq:  60     13:34:15 13 Jul 12   HG
                          480-22456-m-19-h ms
Hg    3.93    ppb       .000      3.93
```

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 61 13:35:51 13 Jul 12 HG
480-22456-m-19-i msd

Hg	3.96	ppb	.000	3.96

*** Sample ID: Seq: 62 13:37:27 13 Jul 12 HG
480-22456-m-20-c

Hg	-.039	ppb	.000	-.039

*** Sample ID: Seq: 63 13:39:14 13 Jul 12 HG
mb 480-72228/1-a

Hg	-.066	ppb	.000	-.066

*** Check Standard: 3 Ck3CCV Seq: 64 13:40:56 13 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.04	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 65 13:42:43 13 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.060	.200	ppb	.000

*** Sample ID: Seq: 66 13:44:38 13 Jul 12 HG
lcs 480-72228/2-a

Hg	4.09	ppb	.000	4.09

*** Sample ID: Seq: 67 13:46:15 13 Jul 12 HG
480-22508-b-1-b

Hg	-.029	ppb	.000	-.029

*** Sample ID: Seq: 68 13:47:54 13 Jul 12 HG
480-22508-b-2-b

Hg	-.047	ppb	.000	-.047

*** Sample ID: Seq: 69 13:49:35 13 Jul 12 HG
480-22508-b-3-b

Hg	.049	ppb	.000	.049

*** Sample ID: Seq: 70 13:51:24 13 Jul 12 HG
480-22508-b-4-b

Hg	2.20	ppb	.000	2.20

*** Sample ID: Seq: 71 13:53:02 13 Jul 12 HG
480-22508-b-5-b

Hg	.311	ppb	.000	.311

*** Sample ID: Seq: 72 13:54:43 13 Jul 12 HG
480-22508-b-6-b

Hg	.136	ppb	.000	.136

*** Sample ID: Seq: 73 13:56:20 13 Jul 12 HG
480-22508-b-7-b

Hg	-.034	ppb	.000	-.034

*** Sample ID: Seq: 74 13:57:57 13 Jul 12 HG
480-22508-b-8-b

Hg	1.81	ppb	.000	1.81

*** Sample ID: Seq: 75 13:59:44 13 Jul 12 HG
480-22508-b-9-b

Hg	.024	ppb	.000	.024

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV        Seq:  76      14:01:22 13 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.05    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  77      14:03:18 13 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.068     .200     ppb        .000

*** Sample ID:                       Seq:  78      14:05:09 13 Jul 12   HG
                          480-22508-b-10-b
Hg   -.051    ppb        .000     -.051

*** Sample ID:                       Seq:  79      14:06:59 13 Jul 12   HG
                          480-22508-b-11-b
Hg    .167    ppb        .000      .167

*** Sample ID:                       Seq:  80      14:08:56 13 Jul 12   HG
                          480-22508-b-12-b
Hg    .029    ppb        .000      .029

*** Sample ID:                       Seq:  81      14:10:33 13 Jul 12   HG
                          480-22509-b-1-b
Hg   -.076    ppb        .000     -.076

*** Sample ID:                       Seq:  82      14:24:19 13 Jul 12   HG
                          480-22508-a-13-a
RR 1:100 Hg    ^^^^^^O ppb      ^^^^^^    ^^^^^^

*** Sample ID:                       Seq:  83      14:25:56 13 Jul 12   HG
                          480-22491-d-1-b
RRCO Hg   -.620    ppb        .000     -.620

*** Sample ID:                       Seq:  84      14:27:35 13 Jul 12   HG
                          480-22491-d-1-b SD@5
Hg   -.712    ppb        .000     -.712

*** Sample ID:                       Seq:  85      14:29:12 13 Jul 12   HG
                          480-22491-d-1-c ms
Hg    2.93    ppb        .000      2.93

*** Sample ID:                       Seq:  86      14:30:49 13 Jul 12   HG
                          480-22491-d-1-d msd
Hg    2.92    ppb        .000      2.92

*** Check Standard: 3  Ck3CCV        Seq:  88      14:45:18 13 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.9     1.98    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  89      14:47:33 13 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.082     .200     ppb        .000

*** Sample ID:                       Seq:  90      14:49:09 13 Jul 12   HG
                          480-22508-a-13-a@100
RR 1:20 Hg    71.6  H ppb        .000      71.6

*** Sample ID:                       Seq:  93      14:56:52 13 Jul 12   HG
                          22508-a-13-a@2000
Hg    4.19    ppb        .000      4.19
```

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 94 14:58:44 13 Jul 12 HG
480-22491-d-1-b

Hg	-.026	ppb	.000	-.026

*** Sample ID: Seq: 95 15:00:23 13 Jul 12 HG
480-22491-d-1-b SD@5

Hg	-.031	ppb	.000	-.031

*** Sample ID: Seq: 96 15:01:59 13 Jul 12 HG
480-22491-d-1-c ms

Hg	3.57	ppb	.000	3.57

*** Sample ID: Seq: 97 15:03:36 13 Jul 12 HG
480-22491-d-1-d msd

Hg	3.46	ppb	.000	3.46

*** Sample ID: Seq: 98 15:05:33 13 Jul 12 HG
480-22499-a-5-a

Hg	-.068	ppb	.000	-.068

*** Sample ID: Seq: 99 15:07:13 13 Jul 12 HG
480-22504-s-1-a

Hg	-.039	ppb	.000	-.039

*** Check Standard: 3 Ck3CCV Seq: 100 15:08:49 13 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 101 15:10:25 13 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.055	.200	ppb	.000

*** Sample ID: Seq: 102 15:12:02 13 Jul 12 HG
480-22378-c-7-d

Hg	.346	ppb	.000	.346

*** Sample ID: Seq: 103 15:13:40 13 Jul 12 HG
480-22465-a-11-a@100

Hg	5.96	ppb	.000	5.96

*** Check Standard: 4 Ck4CRA Seq: 104 15:15:30 13 Jul 12 HG

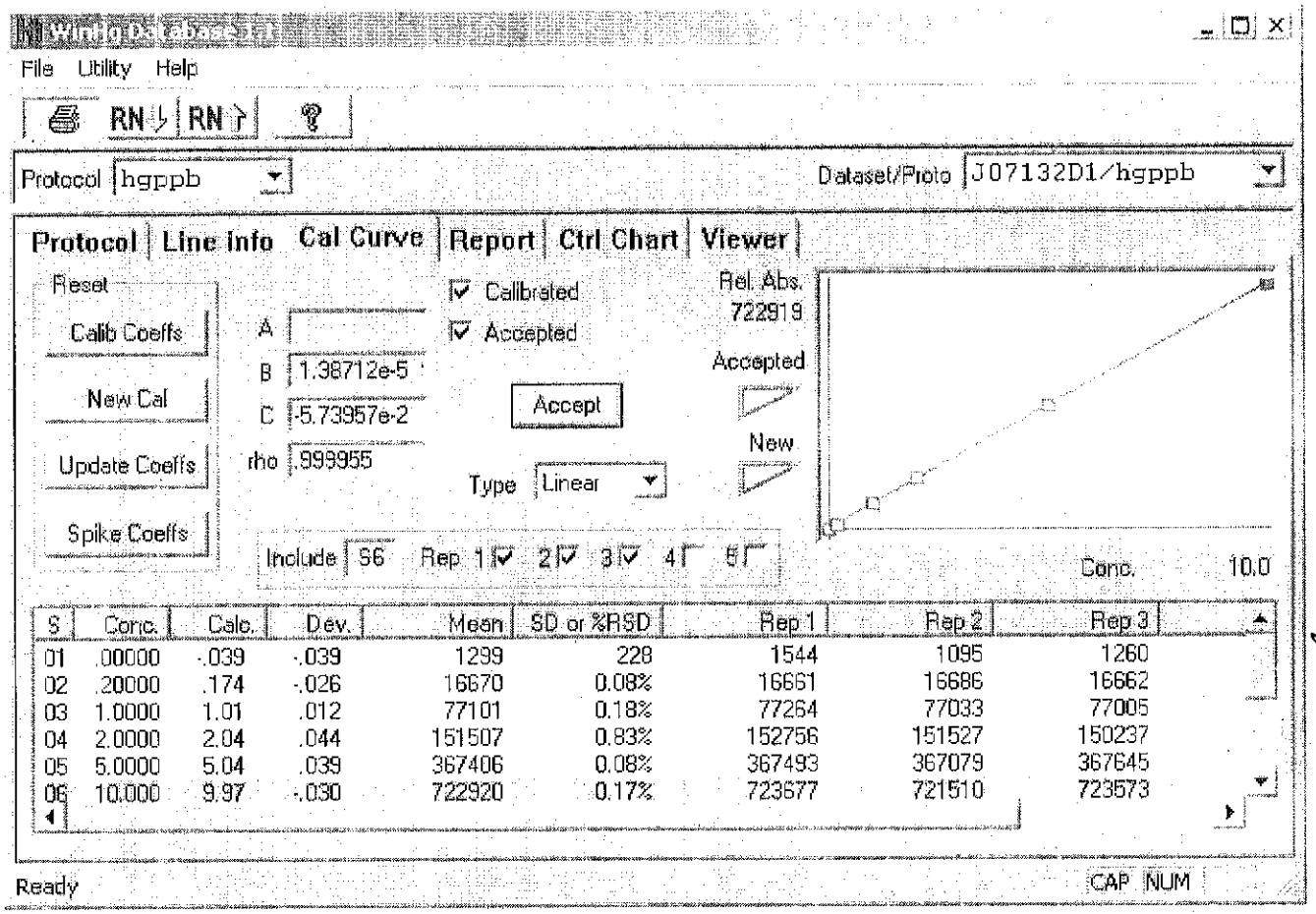
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		74.0	.148	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 105 15:17:39 13 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 106 15:19:28 13 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.058	.200	ppb	.000



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.039	-.039	1299	228	1544	1095	1260
02	.20000	.174	-.026	16670	0.08%	16661	16686	16662
03	1.0000	1.01	.012	77101	0.18%	77264	77033	77005
04	2.0000	2.04	.044	151507	0.83%	152756	151527	150237
05	5.0000	5.04	.039	367406	0.08%	367493	367079	367645
06	10.000	9.97	-.030	722920	0.17%	723677	721510	723573

L3
7/13/12

72267

Cal: J07132C1

Run: J07132D1

Batches: 72247

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2ICV Seq: 1 11:52:35 13 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	3.02	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 11:54:31 13 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.052	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 11:56:06 13 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		82.0	.164	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 11:58:23 13 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.04	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 12:00:29 13 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.045	.200	ppb	.000

*** Sample ID: Seq: 6 12:02:05 13 Jul 12 HG
mb 480-72057/9-b

Hg	-.050	ppb	.000	-.050

*** Sample ID: Seq: 7 12:03:41 13 Jul 12 HG
lcs 480-72057/10-b

Hg	3.99	ppb	.000	3.99

*** Sample ID: Seq: 8 12:05:51 13 Jul 12 HG
480-22465-a-2-a

Hg	-.042	ppb	.000	-.042

*** Sample ID: Seq: 9 12:07:27 13 Jul 12 HG
480-22465-a-2-a SD@5

Hg	-.037	ppb	.000	-.037

*** Sample ID: Seq: 10 12:09:08 13 Jul 12 HG
480-22465-a-2-b ms

Hg	3.98	ppb	.000	3.98

*** Sample ID: Seq: 11 12:10:43 13 Jul 12 HG
480-22465-a-2-c msd

Hg	4.00	ppb	.000	4.00

*** Sample ID: Seq: 12 12:12:23 13 Jul 12 HG
480-22465-a-4-a

Hg	.276	ppb	.000	.276

*** Sample ID: Seq: 13 12:15:24 13 Jul 12 HG
480-22465-a-6-a

Hg	.126	ppb	.000	.126

*** Sample ID: Seq: 14 12:17:09 13 Jul 12 HG
480-22465-a-8-a

Hg	-.041	ppb	.000	-.041

*** Sample ID: Seq: 15 12:18:55 13 Jul 12 HG
480-22465-a-10-a

Hg	-.035	ppb	.000	-.035

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV       Seq:  16      12:20:36 13 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.03    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  17      12:22:35 13 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.036     .200     ppb        .000

*** Sample ID:                      Seq:  18      12:24:31 13 Jul 12   HG
                          480-22465-a-12-a
Hg    1.98    ppb       .000      1.98

*** Sample ID:                      Seq:  19      12:26:19 13 Jul 12   HG
                          480-22465-a-14-a
Hg   -.052    ppb       .000     -.052

*** Sample ID:                      Seq:  20      12:27:55 13 Jul 12   HG
                          480-22465-a-16-a
Hg   -.045    ppb       .000     -.045

*** Sample ID:                      Seq:  21      12:29:40 13 Jul 12   HG
                          480-22362-e-1-e
Hg   -.052    ppb       .000     -.052

*** Sample ID:                      Seq:  22      12:31:36 13 Jul 12   HG
                          480-22363-e-1-c
Hg   -.042    ppb       .000     -.042

*** Sample ID:                      Seq:  23      12:33:12 13 Jul 12   HG
                          480-22466-d-1-b
Hg   -.040    ppb       .000     -.040

*** Sample ID:                      Seq:  24      12:34:59 13 Jul 12   HG
                          480-22466-d-2-b
Hg   -.042    ppb       .000     -.042

*** Sample ID:                      Seq:  25      12:36:35 13 Jul 12   HG
                          480-22466-d-3-d
Hg   -.045    ppb       .000     -.045

*** Check Standard: 4  Ck4CRA       Seq:  26      12:38:21 13 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          84.0     .168    .200   ppb        .000

*** Check Standard: 3  Ck3CCV       Seq:  27      12:40:38 13 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.02    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  28      12:42:24 13 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.056     .200     ppb        .000
```

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Batch Number: 72226 Batch Start Date: 07/13/12 07:49 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00136			
MB 480-72226/1		7470A, 7470A		30 mL	50 mL				
LCS 480-72226/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-22465-A-1	MR-GW-1SS-DP-10-52-56-T	7470A, 7470A	T	30 mL	50 mL				
480-22465-A-1 MS	MR-GW-1SS-DP-10-52-56-T	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-22465-A-1 MSD	MR-GW-1SS-DP-10-52-56-T	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-22465-A-3	MR-GW-1SS-DP-10-62-66-T	7470A, 7470A	T	30 mL	50 mL				
480-22465-A-5	MR-GW-1SS-DP-11-20-24-T	7470A, 7470A	T	30 mL	50 mL				
480-22465-A-7	MR-GW-1SS-DP-11-30-34-T	7470A, 7470A	T	30 mL	50 mL				
480-22465-A-9	MR-GW-1SS-DP-11-40-44-T	7470A, 7470A	T	30 mL	50 mL				
480-22465-A-11	MR-GW-1SS-DP-11-10-14-T	7470A, 7470A	T	30 mL	50 mL				
480-22465-A-13	MR-FB-071112-T	7470A, 7470A	T	30 mL	50 mL				
480-22465-A-15	MR-GW-1SS-DP-11-50-54-T	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 72267
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-A
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	7972052
Oven, Bath or Block Temperature 1	93.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	94.0 Celsius

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Batch Number: 72226 Batch Start Date: 07/13/12 07:49 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Batch Number: 72247 Batch Start Date: 07/13/12 09:05 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00136			
MB 480-72057/9-A		7470A, 7470A		30 mL	50 mL				
LCS 480-72057/10-A		7470A, 7470A		30 mL	50 mL	2 mL			
480-22465-A-2	MR-GW-1SS-DP-10-52-56-D	7470A, 7470A	D	30 mL	50 mL				
480-22465-A-2 MS	MR-GW-1SS-DP-10-52-56-D	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-22465-A-2 MSD	MR-GW-1SS-DP-10-52-56-D	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-22465-A-4	MR-GW-1SS-DP-10-62-66-D	7470A, 7470A	D	30 mL	50 mL				
480-22465-A-6	MR-GW-1SS-DP-11-20-24-D	7470A, 7470A	D	30 mL	50 mL				
480-22465-A-8	MR-GW-1SS-DP-11-30-34-D	7470A, 7470A	D	30 mL	50 mL				
480-22465-A-10	MR-GW-1SS-DP-11-40-44-D	7470A, 7470A	D	30 mL	50 mL				
480-22465-A-12	MR-GW-1SS-DP-11-10-14-D	7470A, 7470A	D	30 mL	50 mL				
480-22465-A-14	MR-FB-071112-D	7470A, 7470A	D	30 mL	50 mL				
480-22465-A-16	MR-GW-1SS-DP-11-50-54-D	7470A, 7470A	D	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 72267
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-B
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	7972052
Oven, Bath or Block Temperature 1	95.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	96.0 Celsius

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Batch Number: 72247 Batch Start Date: 07/13/12 09:05 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22465-1

SDG No.:

Batch Number: 72657 Batch Start Date: 07/17/12 08:55 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00140			
MB 480-72657/1		7470A, 7470A		30 mL	50 mL				
LCS 480-72657/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-22465-A-3	MR-GW-1SS-DP-10-62-66-T	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 72676
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-A
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	797049
Oven, Bath or Block Temperature 1	95.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1203159
Uncorrected Temperature	96.0 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Brown and Caldwell	Frank Williams	7/11/12	228178
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
110 Commerce Dr.	201-574-4700 201-236-1607	—	
City / State / Zip Code	**Site Contact / Lab Contact**		
Allendale / NJ / 07401	Catie Mino / Brian Fischer		
Project Name and Location (State)	**Carrier/Waybill Number**		
Mercco, Colonie, NY	—		
Contract/Purchase Order/Quote No.			
—			

Analysis (Attach list if more space is needed): Mercury 7474A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil		Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH		Mercury 7474A
MR-GW-ISS-DP-10-52-56-T	7/11/12	8:40		X						X					X
MR-GW-ISS DP-10-52-56-D	7/11/12	8:40		X						X					X
MR-GW-ISS-DP-10-62-66-T	7/11/12	10:00		X						X					X
MR-GW ISS-DP-10-62-66-D	7/11/12	10:00		X						X					X
MR-GW-ISS DP-11-20-24-T	7/11/12	11:35		X						X					X
MR-GW ISS-DP-11-20-24-D	7/11/12	11:35		X						X					X
MR-GW-ISS-DP-11-30-34-T	7/11/12	12:05		X						X					X
MR-GW-ISS-DP-11-30-34-D	7/11/12	12:05		X						X					X
MR-GW-ISS-DP-11-40-44-T	7/11/12	14:50		X						X					X
MR-GW-ISS-DP-11-40-44-D	7/11/12	14:50		X						X					X
MR-GW-ISS-DP-11-10-14-T	7/11/12	12:20		X						X					X
MR-GW-ISS-DP-11-10-14-D	7/11/12	12:20		X						X					X

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 3 days

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7/11/12	16:20	1. Received By	7/11/12	16:20
2. Relinquished By	7/11/12	1700	2. Received By	7-12-12	0800
3. Relinquished By			3. Received By		

Comments: 21 # 3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 7/11/12	Chain of Custody Number: 228179
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 2 of 2
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Catie Mino; Lab Contact: Brian Fischer		
Project Name and Location (State): Meveco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No: —			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Mercury 7470A	Special Instructions/ Conditions of Receipt
MR-FB 071112-T	7/11/12	15:15		X					X				X	
MR-FB-071112-D	7/11/12	15:15		X					X				X	
MR-GW-ISS DP-11-50-54-T	7/11/12	16:00		X					X				X	
MR-GW ISS-DP-11-50-54-D	7/11/12	16:00		X					X				X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 3 day

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	7/11/12	16:20	1. Received By: [signature]	7/11/12	16:20
2. Relinquished By: [signature]	7/11/12	1700	2. Received By: [signature]	7-12-12	0200
3. Relinquished By:			3. Received By: 2.1 +/-		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report, CANARY - Stays with the Sample PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-22465-1

Login Number: 22465

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	N/A	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-22567-1

Job Description: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, NJ 07401

Attention: Ms. Carolyn A Spinapolice

Approved for release.
Brian Fischer
Project Manager II
7/26/2012 9:44 AM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com
07/26/2012

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Job Narrative
480-22567-1

Receipt
The samples were received on 7/13/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4º C.

Metals
Method 7470A: The following sample was diluted to bring the concentration of the target analyte total mercury within the calibration range: MR-GW-ISS-DP-14-18-22-T (480-22567-3). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-22567-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-22567-1	MR-GW-ISS-DP-11-60-64-T	Water	07/12/2012 0820	07/13/2012 0900
480-22567-2	MR-GW-ISS-DP-11-60-64-F	Water	07/12/2012 0820	07/13/2012 0900
480-22567-3	MR-GW-ISS-DP-14-18-22-T	Water	07/12/2012 1025	07/13/2012 0900
480-22567-4	MR-GW-ISS-DP-14-18-22-F	Water	07/12/2012 1025	07/13/2012 0900
480-22567-5	MR-GW-ISS-DP-14-28-32-T	Water	07/12/2012 1045	07/13/2012 0900
480-22567-6	MR-GW-ISS-DP-14-28-32-F	Water	07/12/2012 1045	07/13/2012 0900
480-22567-7	MR-GW-DUP071212-T	Water	07/12/2012 0000	07/13/2012 0900
480-22567-8	MR-GW-DUP071212-F	Water	07/12/2012 0000	07/13/2012 0900
480-22567-9	MR-GW-ISS-DP-14-38-42-T	Water	07/12/2012 1420	07/13/2012 0900
480-22567-10	MR-GW-ISS-DP-14-38-42-D	Water	07/12/2012 1420	07/13/2012 0900
480-22600-1	MR-GW-ISS-DP-14-48-52-T	Water	07/13/2012 0845	07/14/2012 0900
480-22600-2	MR-GW-ISS-DP-14-48-52-D	Water	07/13/2012 0845	07/14/2012 0900
480-22600-3	MR-FB-071312-T	Water	07/13/2012 0930	07/14/2012 0900
480-22600-4	MR-FB-071312-F	Water	07/13/2012 0930	07/14/2012 0900
480-22600-5	MR-GW-ISS-DP-14-58-62-T	Water	07/13/2012 1010	07/14/2012 0900
480-22600-6	MR-GW-ISS-DP-14-58-62-D	Water	07/13/2012 1010	07/14/2012 0900

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-22567-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-22567-1	**MR-GW-ISS-DP-11-60-64-T**					
Mercury, Total		10.1		0.20	ug/L	7470A
480-22567-2	**MR-GW-ISS-DP-11-60-64-F**					
Dissolved						
Mercury, Dissolved		0.88		0.20	ug/L	7470A
480-22567-3	**MR-GW-ISS-DP-14-18-22-T**					
Mercury, Total		142		4.0	ug/L	7470A
480-22567-4	**MR-GW-ISS-DP-14-18-22-F**					
Dissolved						
Mercury, Dissolved		1.9		0.20	ug/L	7470A
480-22567-7	**MR-GW-DUP071212-T**					
Mercury, Total		0.27		0.20	ug/L	7470A
480-22600-1	**MR-GW-ISS-DP-14-48-52-T**					
Mercury, Total		0.79		0.20	ug/L	7470A
480-22600-5	**MR-GW-ISS-DP-14-58-62-T**					
Mercury, Total		3.0		0.20	ug/L	7470A

METHOD SUMMARY

Client: Brown and Caldwell

Job Number: 480-22567-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Brown and Caldwell

Job Number: 480-22567-1

Method	Analyst	Analyst ID
SW846 7470A	Kacalski, Jason	JRK

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-11-60-64-T**

Lab Sample ID: 480-22567-1

Client Matrix: Water

Date Sampled: 07/12/2012 0820

Date Received: 07/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72469	Lab File ID:	J07162W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1208			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	10.1		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-11-60-64-F**

Lab Sample ID: 480-22567-2

Client Matrix: Water

Date Sampled: 07/12/2012 0820

Date Received: 07/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72545	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72484	Lab File ID:	H07162D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1244			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0900				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	0.88		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-14-18-22-T**

Lab Sample ID: 480-22567-3

Client Matrix: Water

Date Sampled: 07/12/2012 1025

Date Received: 07/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72469	Lab File ID:	J07162W1.PRN
Dilution:	20			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1526			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	142		4.0

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-14-18-22-F**

Lab Sample ID: 480-22567-4

Client Matrix: Water

Date Sampled: 07/12/2012 1025

Date Received: 07/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72545	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72484	Lab File ID:	H07162D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1245			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0900				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	1.9		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-14-28-32-T**

Lab Sample ID: 480-22567-5

Client Matrix: Water

Date Sampled: 07/12/2012 1045

Date Received: 07/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72469	Lab File ID:	J07162W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1212			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-14-28-32-F**

Lab Sample ID: 480-22567-6

Client Matrix: Water

Date Sampled: 07/12/2012 1045

Date Received: 07/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72545	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72484	Lab File ID:	H07162D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1247			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0900				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-DUP071212-T**

Lab Sample ID: 480-22567-7

Client Matrix: Water

Date Sampled: 07/12/2012 0000

Date Received: 07/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72469	Lab File ID:	J07162W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1214			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.27		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-DUP071212-F**

Lab Sample ID: 480-22567-8

Client Matrix: Water

Date Sampled: 07/12/2012 0000

Date Received: 07/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72545	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72484	Lab File ID:	H07162D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1249			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0900				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-14-38-42-T**

Lab Sample ID: 480-22567-9

Client Matrix: Water

Date Sampled: 07/12/2012 1420

Date Received: 07/13/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72469	Lab File ID:	J07162W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1215			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-14-38-42-D**

Lab Sample ID: 480-22567-10

Client Matrix: Water

Date Sampled: 07/12/2012 1420

Date Received: 07/13/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72545	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72484	Lab File ID:	H07162D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1250			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0900				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-14-48-52-T**

Lab Sample ID: 480-22600-1

Client Matrix: Water

Date Sampled: 07/13/2012 0845

Date Received: 07/14/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72471	Lab File ID:	J07162W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1337			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.79		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-14-48-52-D**

Lab Sample ID: 480-22600-2

Client Matrix: Water

Date Sampled: 07/13/2012 0845

Date Received: 07/14/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72545	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72484	Lab File ID:	H07162D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1252			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0900				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-FB-071312-T**

Lab Sample ID: 480-22600-3

Client Matrix: Water

Date Sampled: 07/13/2012 0930

Date Received: 07/14/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72471	Lab File ID:	J07162W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1339			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-FB-071312-F**

Lab Sample ID: 480-22600-4

Client Matrix: Water

Date Sampled: 07/13/2012 0930

Date Received: 07/14/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72545	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72484	Lab File ID:	H07162D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1254			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0900				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-14-58-62-T**

Lab Sample ID: 480-22600-5

Client Matrix: Water

Date Sampled: 07/13/2012 1010

Date Received: 07/14/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72471	Lab File ID:	J07162W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1341			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	3.0		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Client Sample ID: **MR-GW-ISS-DP-14-58-62-D**

Lab Sample ID: 480-22600-6

Client Matrix: Water

Date Sampled: 07/13/2012 1010

Date Received: 07/14/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72545	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-72484	Lab File ID:	H07162D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1255			Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0900				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22567-1

Method Blank - Batch: 480-72469

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-72469/1-A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72469	Lab File ID:	J07162W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1204	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-72469

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-72469/2-A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72469	Lab File ID:	J07162W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1206	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.57	98	80 - 120	

Client: Brown and Caldwell

Job Number: 480-22567-1

Method Blank - Batch: 480-72471

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-72471/1-A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72471	Lab File ID:	J07162W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1259	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-72471

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-72471/2-A	Analysis Batch:	480-72597	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72471	Lab File ID:	J07162W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1301	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0845				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.42	96	80 - 120	

Client: Brown and Caldwell

Job Number: 480-22567-1

Method Blank - Batch: 480-72484

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	MB 480-72057/15-B	Analysis Batch:	480-72545	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72484	Lab File ID:	H07162D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1240	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0900				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Dissolved	ND		0.20

Lab Control Sample - Batch: 480-72484

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	LCS 480-72057/16-B	Analysis Batch:	480-72545	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-72484	Lab File ID:	H07162D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/16/2012 1242	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/16/2012 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Dissolved	6.67	6.40	96	80 - 120	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Brown and Caldwell

Job Number: 480-22567-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-72469					
LCS 480-72469/2-A	Lab Control Sample	T	Water	7470A	
MB 480-72469/1-A	Method Blank	T	Water	7470A	
480-22567-1	MR-GW-ISS-DP-11-60-64-T	T	Water	7470A	
480-22567-3	MR-GW-ISS-DP-14-18-22-T	T	Water	7470A	
480-22567-5	MR-GW-ISS-DP-14-28-32-T	T	Water	7470A	
480-22567-7	MR-GW-DUP071212-T	T	Water	7470A	
480-22567-9	MR-GW-ISS-DP-14-38-42-T	T	Water	7470A	
Prep Batch: 480-72471					
LCS 480-72471/2-A	Lab Control Sample	T	Water	7470A	
MB 480-72471/1-A	Method Blank	T	Water	7470A	
480-22600-1	MR-GW-ISS-DP-14-48-52-T	T	Water	7470A	
480-22600-3	MR-FB-071312-T	T	Water	7470A	
480-22600-5	MR-GW-ISS-DP-14-58-62-T	T	Water	7470A	
Prep Batch: 480-72484					
LCS 480-72057/16-B	Lab Control Sample	D	Water	7470A	
MB 480-72057/15-B	Method Blank	D	Water	7470A	
480-22567-2	MR-GW-ISS-DP-11-60-64-F	D	Water	7470A	
480-22567-4	MR-GW-ISS-DP-14-18-22-F	D	Water	7470A	
480-22567-6	MR-GW-ISS-DP-14-28-32-F	D	Water	7470A	
480-22567-8	MR-GW-DUP071212-F	D	Water	7470A	
480-22567-10	MR-GW-ISS-DP-14-38-42-D	D	Water	7470A	
480-22600-2	MR-GW-ISS-DP-14-48-52-D	D	Water	7470A	
480-22600-4	MR-FB-071312-F	D	Water	7470A	
480-22600-6	MR-GW-ISS-DP-14-58-62-D	D	Water	7470A	
Analysis Batch:480-72545					
LCS 480-72057/16-B	Lab Control Sample	D	Water	7470A	480-72484
MB 480-72057/15-B	Method Blank	D	Water	7470A	480-72484
480-22567-2	MR-GW-ISS-DP-11-60-64-F	D	Water	7470A	480-72484
480-22567-4	MR-GW-ISS-DP-14-18-22-F	D	Water	7470A	480-72484
480-22567-6	MR-GW-ISS-DP-14-28-32-F	D	Water	7470A	480-72484
480-22567-8	MR-GW-DUP071212-F	D	Water	7470A	480-72484
480-22567-10	MR-GW-ISS-DP-14-38-42-D	D	Water	7470A	480-72484
480-22600-2	MR-GW-ISS-DP-14-48-52-D	D	Water	7470A	480-72484
480-22600-4	MR-FB-071312-F	D	Water	7470A	480-72484
480-22600-6	MR-GW-ISS-DP-14-58-62-D	D	Water	7470A	480-72484

Client: Brown and Caldwell

Job Number: 480-22567-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-72597					
LCS 480-72469/2-A	Lab Control Sample	T	Water	7470A	480-72469
MB 480-72469/1-A	Method Blank	T	Water	7470A	480-72469
LCS 480-72471/2-A	Lab Control Sample	T	Water	7470A	480-72471
MB 480-72471/1-A	Method Blank	T	Water	7470A	480-72471
480-22567-1	MR-GW-ISS-DP-11-60-64-T	T	Water	7470A	480-72469
480-22567-3	MR-GW-ISS-DP-14-18-22-T	T	Water	7470A	480-72469
480-22567-5	MR-GW-ISS-DP-14-28-32-T	T	Water	7470A	480-72469
480-22567-7	MR-GW-DUP071212-T	T	Water	7470A	480-72469
480-22567-9	MR-GW-ISS-DP-14-38-42-T	T	Water	7470A	480-72469
480-22600-1	MR-GW-ISS-DP-14-48-52-T	T	Water	7470A	480-72471
480-22600-3	MR-FB-071312-T	T	Water	7470A	480-72471
480-22600-5	MR-GW-ISS-DP-14-58-62-T	T	Water	7470A	480-72471

Report Basis

D = Dissolved

T = Total

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-22567-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Client: Brown and Caldwell

Job Number: 480-22567-1

Laboratory Chronicle

Lab ID: 480-22567-1 **Client ID:** MR-GW-ISS-DP-11-60-64-T

Sample Date/Time: 07/12/2012 08:20 Received Date/Time: 07/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22567-A-1-A		480-72597	480-72469	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	480-22567-A-1-A		480-72597	480-72469	07/16/2012 12:08	1	TAL BUF	JRK

Lab ID: 480-22567-2 **Client ID:** MR-GW-ISS-DP-11-60-64-F

Sample Date/Time: 07/12/2012 08:20 Received Date/Time: 07/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22567-A-2-A		480-72545	480-72484	07/16/2012 09:00	1	TAL BUF	JRK
A:7470A	480-22567-A-2-A		480-72545	480-72484	07/16/2012 12:44	1	TAL BUF	JRK

Lab ID: 480-22567-3 **Client ID:** MR-GW-ISS-DP-14-18-22-T

Sample Date/Time: 07/12/2012 10:25 Received Date/Time: 07/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22567-A-3-A ^20		480-72597	480-72469	07/16/2012 08:45	20	TAL BUF	JRK
A:7470A	480-22567-A-3-A ^20		480-72597	480-72469	07/16/2012 15:26	20	TAL BUF	JRK

Lab ID: 480-22567-4 **Client ID:** MR-GW-ISS-DP-14-18-22-F

Sample Date/Time: 07/12/2012 10:25 Received Date/Time: 07/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22567-A-4-A		480-72545	480-72484	07/16/2012 09:00	1	TAL BUF	JRK
A:7470A	480-22567-A-4-A		480-72545	480-72484	07/16/2012 12:45	1	TAL BUF	JRK

Lab ID: 480-22567-5 **Client ID:** MR-GW-ISS-DP-14-28-32-T

Sample Date/Time: 07/12/2012 10:45 Received Date/Time: 07/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22567-A-5-A		480-72597	480-72469	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	480-22567-A-5-A		480-72597	480-72469	07/16/2012 12:12	1	TAL BUF	JRK

Lab ID: 480-22567-6 **Client ID:** MR-GW-ISS-DP-14-28-32-F

Sample Date/Time: 07/12/2012 10:45 Received Date/Time: 07/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22567-A-6-A		480-72545	480-72484	07/16/2012 09:00	1	TAL BUF	JRK
A:7470A	480-22567-A-6-A		480-72545	480-72484	07/16/2012 12:47	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22567-1

Laboratory Chronicle

Lab ID: 480-22567-7 **Client ID:** MR-GW-DUP071212-T

Sample Date/Time: 07/12/2012 00:00 Received Date/Time: 07/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22567-A-7-A		480-72597	480-72469	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	480-22567-A-7-A		480-72597	480-72469	07/16/2012 12:14	1	TAL BUF	JRK

Lab ID: 480-22567-8 **Client ID:** MR-GW-DUP071212-F

Sample Date/Time: 07/12/2012 00:00 Received Date/Time: 07/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22567-A-8-A		480-72545	480-72484	07/16/2012 09:00	1	TAL BUF	JRK
A:7470A	480-22567-A-8-A		480-72545	480-72484	07/16/2012 12:49	1	TAL BUF	JRK

Lab ID: 480-22567-9 **Client ID:** MR-GW-ISS-DP-14-38-42-T

Sample Date/Time: 07/12/2012 14:20 Received Date/Time: 07/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22567-A-9-A		480-72597	480-72469	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	480-22567-A-9-A		480-72597	480-72469	07/16/2012 12:15	1	TAL BUF	JRK

Lab ID: 480-22567-10 **Client ID:** MR-GW-ISS-DP-14-38-42-D

Sample Date/Time: 07/12/2012 14:20 Received Date/Time: 07/13/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22567-A-10-A		480-72545	480-72484	07/16/2012 09:00	1	TAL BUF	JRK
A:7470A	480-22567-A-10-A		480-72545	480-72484	07/16/2012 12:50	1	TAL BUF	JRK

Lab ID: 480-22600-1 **Client ID:** MR-GW-ISS-DP-14-48-52-T

Sample Date/Time: 07/13/2012 08:45 Received Date/Time: 07/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22600-A-1-A		480-72597	480-72471	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	480-22600-A-1-A		480-72597	480-72471	07/16/2012 13:37	1	TAL BUF	JRK

Lab ID: 480-22600-2 **Client ID:** MR-GW-ISS-DP-14-48-52-D

Sample Date/Time: 07/13/2012 08:45 Received Date/Time: 07/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22600-A-2-A		480-72545	480-72484	07/16/2012 09:00	1	TAL BUF	JRK
A:7470A	480-22600-A-2-A		480-72545	480-72484	07/16/2012 12:52	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22567-1

Laboratory Chronicle

Lab ID: **480-22600-3** **Client ID:** **MR-FB-071312-T**

Sample Date/Time: 07/13/2012 09:30 Received Date/Time: 07/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22600-A-3-A		480-72597	480-72471	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	480-22600-A-3-A		480-72597	480-72471	07/16/2012 13:39	1	TAL BUF	JRK

Lab ID: **480-22600-4** **Client ID:** **MR-FB-071312-F**

Sample Date/Time: 07/13/2012 09:30 Received Date/Time: 07/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22600-A-4-A		480-72545	480-72484	07/16/2012 09:00	1	TAL BUF	JRK
A:7470A	480-22600-A-4-A		480-72545	480-72484	07/16/2012 12:54	1	TAL BUF	JRK

Lab ID: **480-22600-5** **Client ID:** **MR-GW-ISS-DP-14-58-62-T**

Sample Date/Time: 07/13/2012 10:10 Received Date/Time: 07/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22600-A-5-A		480-72597	480-72471	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	480-22600-A-5-A		480-72597	480-72471	07/16/2012 13:41	1	TAL BUF	JRK

Lab ID: **480-22600-6** **Client ID:** **MR-GW-ISS-DP-14-58-62-D**

Sample Date/Time: 07/13/2012 10:10 Received Date/Time: 07/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22600-A-6-A		480-72545	480-72484	07/16/2012 09:00	1	TAL BUF	JRK
A:7470A	480-22600-A-6-A		480-72545	480-72484	07/16/2012 12:55	1	TAL BUF	JRK

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	MB 480-72469/1-A		480-72597	480-72469	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	MB 480-72469/1-A		480-72597	480-72469	07/16/2012 12:04	1	TAL BUF	JRK
P:7470A	MB 480-72057/15-B		480-72545	480-72484	07/16/2012 09:00	1	TAL BUF	JRK
A:7470A	MB 480-72057/15-B		480-72545	480-72484	07/16/2012 12:40	1	TAL BUF	JRK
P:7470A	MB 480-72471/1-A		480-72597	480-72471	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	MB 480-72471/1-A		480-72597	480-72471	07/16/2012 12:59	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22567-1

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LCS 480-72469/2-A		480-72597	480-72469	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	LCS 480-72469/2-A		480-72597	480-72469	07/16/2012 12:06	1	TAL BUF	JRK
P:7470A	LCS 480-72057/16-B		480-72545	480-72484	07/16/2012 09:00	1	TAL BUF	JRK
A:7470A	LCS 480-72057/16-B		480-72545	480-72484	07/16/2012 12:42	1	TAL BUF	JRK
P:7470A	LCS 480-72471/2-A		480-72597	480-72471	07/16/2012 08:45	1	TAL BUF	JRK
A:7470A	LCS 480-72471/2-A		480-72597	480-72471	07/16/2012 13:01	1	TAL BUF	JRK

Lab References:
TAL BUF = TestAmerica Buffalo

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22567-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-GW-ISS-DP-11-60-64-T	480-22567-1
MR-GW-ISS-DP-11-60-64-F	480-22567-2
MR-GW-ISS-DP-14-18-22-T	480-22567-3
MR-GW-ISS-DP-14-18-22-F	480-22567-4
MR-GW-ISS-DP-14-28-32-T	480-22567-5
MR-GW-ISS-DP-14-28-32-F	480-22567-6
MR-GW-DUP071212-T	480-22567-7
MR-GW-DUP071212-F	480-22567-8
MR-GW-ISS-DP-14-38-42-T	480-22567-9
MR-GW-ISS-DP-14-38-42-D	480-22567-10
MR-GW-ISS-DP-14-48-52-T	480-22600-1
MR-GW-ISS-DP-14-48-52-D	480-22600-2
MR-FB-071312-T	480-22600-3
MR-FB-071312-F	480-22600-4
MR-GW-ISS-DP-14-58-62-T	480-22600-5
MR-GW-ISS-DP-14-58-62-D	480-22600-6

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-11-60-64-T
Lab Sample ID: 480-22567-1
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/12/2012 08:20
Reporting Basis: WET
Date Received: 07/13/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	10.1	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-11-60-64-F
Lab Sample ID: 480-22567-2
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/12/2012 08:20
Reporting Basis: WET
Date Received: 07/13/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	0.88	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-14-18-22-T
Lab Sample ID: 480-22567-3
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/12/2012 10:25
Reporting Basis: WET
Date Received: 07/13/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	142	4.0	2.4	ug/L			20	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-14-18-22-F
Lab Sample ID: 480-22567-4
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/12/2012 10:25
Reporting Basis: WET
Date Received: 07/13/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	1.9	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-14-28-32-T

Lab Sample ID: 480-22567-5

Lab Name: TestAmerica Buffalo

Job No.: 480-22567-1

SDG ID.:

Matrix: Water

Date Sampled: 07/12/2012 10:45

Reporting Basis: WET

Date Received: 07/13/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-14-28-32-F
Lab Sample ID: 480-22567-6
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/12/2012 10:45
Reporting Basis: WET
Date Received: 07/13/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-DUP071212-T
Lab Sample ID: 480-22567-7
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/12/2012 00:00
Reporting Basis: WET
Date Received: 07/13/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.27	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-DUP071212-F
Lab Sample ID: 480-22567-8
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/12/2012 00:00
Reporting Basis: WET
Date Received: 07/13/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-14-38-42-T
Lab Sample ID: 480-22567-9
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/12/2012 14:20
Reporting Basis: WET
Date Received: 07/13/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-14-38-42-D
Lab Sample ID: 480-22567-10
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/12/2012 14:20
Reporting Basis: WET
Date Received: 07/13/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-14-48-52-T
Lab Sample ID: 480-22600-1
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/13/2012 08:45
Reporting Basis: WET
Date Received: 07/14/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.79	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-14-48-52-D
Lab Sample ID: 480-22600-2
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/13/2012 08:45
Reporting Basis: WET
Date Received: 07/14/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-FB-071312-T

Lab Sample ID: 480-22600-3

Lab Name: TestAmerica Buffalo

Job No.: 480-22567-1

SDG ID.:

Matrix: Water

Date Sampled: 07/13/2012 09:30

Reporting Basis: WET

Date Received: 07/14/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-FB-071312-F
Lab Sample ID: 480-22600-4
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/13/2012 09:30
Reporting Basis: WET
Date Received: 07/14/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-14-58-62-T

Lab Sample ID: 480-22600-5

Lab Name: TestAmerica Buffalo

Job No.: 480-22567-1

SDG ID.:

Matrix: Water

Date Sampled: 07/13/2012 10:10

Reporting Basis: WET

Date Received: 07/14/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	3.0	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-14-58-62-D
Lab Sample ID: 480-22600-6
Lab Name: TestAmerica Buffalo
Job No.: 480-22567-1
SDG ID.:
Matrix: Water
Date Sampled: 07/13/2012 10:10
Reporting Basis: WET
Date Received: 07/14/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

ICV Source: MEH_HG2_WKG_00139 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00139

Analyte	ICV 480-72545/1 07/16/2012 12:31				CCV 480-72545/4 07/16/2012 12:37				CCV 480-72545/16 07/16/2012 12:57			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00296		0.00300	99	0.00195		0.00200	98	0.00195		0.00200	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

ICV Source: MEH_HG2_WKG_00139 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00139

Analyte	CCV 480-72545/27 07/16/2012 13:16											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00194		0.00200	97								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

ICV Source: MEH_HG2_WKG_00139 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00139

Analyte	ICV 480-72597/1 07/16/2012 11:55				CCV 480-72597/4 07/16/2012 12:01				CCV 480-72597/16 07/16/2012 12:23			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00295		0.00300	98	0.00198		0.00200	99	0.00198		0.00200	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

ICV Source: MEH_HG2_WKG_00139 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00139

Analyte	CCV 480-72597/28 07/16/2012 12:46				CCV 480-72597/40 07/16/2012 13:08				CCV 480-72597/52 07/16/2012 13:29			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00197		0.00200	99	0.00197		0.00200	99	0.00199		0.00200	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

ICV Source: MEH_HG2_WKG_00139 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00139

Analyte	CCV 480-72597/64 07/16/2012 13:50				CCV 480-72597/100 07/16/2012 15:04				CCV 480-72597/103 07/16/2012 15:27			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00197		0.00200	99	0.00196		0.00200	98	0.00193		0.00200	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN2

Lab Sample ID: CRA 480-72545/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00139

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Dissolved	0.000200	ND		81	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN3

Lab Sample ID: CRA 480-72597/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00139

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		99	50-150

Lab Sample ID: CRA 480-72597/99 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00139

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		88	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-72545/2 07/16/2012 12:33		CCB 480-72545/5 07/16/2012 12:38		CCB 480-72545/17 07/16/2012 12:59		CCB 480-72545/28 07/16/2012 13:18	
		Found	C	Found	C	Found	C	Found	C
Mercury, Dissolved	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-72597/2 07/16/2012 11:56		CCB 480-72597/5 07/16/2012 12:02		CCB 480-72597/17 07/16/2012 12:25		CCB 480-72597/29 07/16/2012 12:48	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-72597/41 07/16/2012 13:09		CCB 480-72597/53 07/16/2012 13:30		CCB 480-72597/65 07/16/2012 13:51		CCB 480-72597/101 07/16/2012 15:06	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-72597/104 07/16/2012 15:29							
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-72057/15-B

Instrument Code: LEEMAN2 Batch No.: 72545

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Dissolved	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-72469/1-A

Instrument Code: LEEMAN3 Batch No.: 72597

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-72471/1-A

Instrument Code: LEEMAN3 Batch No.: 72597

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-72057/16-B

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00139

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Dissolved	6.67	6.40		96	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-72469/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00139

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.57		98	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-72471/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00139

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.42		96	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22567-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22567-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-22567-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Dissolved	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-22567-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Dissolved	253.7	0.0002	0.00012

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-22567-1

SDG No.:

Instrument ID: LEEMAN2 Date: 03/20/2012 10:04

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Dissolved	10	10	7470A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-22567-1

SDG No.:

Instrument ID: LEEMAN3 Date: 03/20/2012 10:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Total	10	10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-72469/1-A	07/16/2012 08:45	72469		30	50
LCS 480-72469/2-A	07/16/2012 08:45	72469		30	50
480-22567-1	07/16/2012 08:45	72469		30	50
480-22567-3	07/16/2012 08:45	72469		30	50
480-22567-5	07/16/2012 08:45	72469		30	50
480-22567-7	07/16/2012 08:45	72469		30	50
480-22567-9	07/16/2012 08:45	72469		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-72471/1-A	07/16/2012 08:45	72471		30	50
LCS 480-72471/2-A	07/16/2012 08:45	72471		30	50
480-22600-1	07/16/2012 08:45	72471		30	50
480-22600-3	07/16/2012 08:45	72471		30	50
480-22600-5	07/16/2012 08:45	72471		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-72057/15-B	07/16/2012 09:00	72484		30	50
LCS 480-72057/16-B	07/16/2012 09:00	72484		30	50
480-22567-2	07/16/2012 09:00	72484		30	50
480-22567-4	07/16/2012 09:00	72484		30	50
480-22567-6	07/16/2012 09:00	72484		30	50
480-22567-8	07/16/2012 09:00	72484		30	50
480-22567-10	07/16/2012 09:00	72484		30	50
480-22600-2	07/16/2012 09:00	72484		30	50
480-22600-4	07/16/2012 09:00	72484		30	50
480-22600-6	07/16/2012 09:00	72484		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/16/2012 12:31 End Date: 07/16/2012 13:18

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-72545/1	1		12:31	X																			
ICB 480-72545/2	1		12:33	X																			
CRA 480-72545/3	1		12:35	X																			
CCV 480-72545/4	1		12:37	X																			
CCB 480-72545/5	1		12:38	X																			
MB 480-72057/15-B	1	D	12:40	X																			
LCS 480-72057/16-B	1	D	12:42	X																			
480-22567-2	1	D	12:44	X																			
480-22567-4	1	D	12:45	X																			
480-22567-6	1	D	12:47	X																			
480-22567-8	1	D	12:49	X																			
480-22567-10	1	D	12:50	X																			
480-22600-2	1	D	12:52	X																			
480-22600-4	1	D	12:54	X																			
480-22600-6	1	D	12:55	X																			
CCV 480-72545/16	1		12:57	X																			
CCB 480-72545/17	1		12:59	X																			
ZZZZZZ			13:00																				
ZZZZZZ			13:02																				
ZZZZZZ			13:04																				
ZZZZZZ			13:06																				
ZZZZZZ			13:07																				
ZZZZZZ			13:09																				
ZZZZZZ			13:11																				
ZZZZZZ			13:12																				
CRA 480-72545/26			13:14																				
CCV 480-72545/27	1		13:16	X																			
CCB 480-72545/28	1		13:18	X																			

Prep Types

D = Dissolved

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/16/2012 11:55 End Date: 07/16/2012 15:29

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-72597/1	1		11:55	X																			
ICB 480-72597/2	1		11:56	X																			
CRA 480-72597/3	1		11:59	X																			
CCV 480-72597/4	1		12:01	X																			
CCB 480-72597/5	1		12:02	X																			
MB 480-72469/1-A	1	T	12:04	X																			
LCS 480-72469/2-A	1	T	12:06	X																			
480-22567-1	1	T	12:08	X																			
ZZZZZZ			12:10																				
480-22567-5	1	T	12:12	X																			
480-22567-7	1	T	12:14	X																			
480-22567-9	1	T	12:15	X																			
ZZZZZZ			12:17																				
ZZZZZZ			12:19																				
ZZZZZZ			12:21																				
CCV 480-72597/16	1		12:23	X																			
CCB 480-72597/17	1		12:25	X																			
ZZZZZZ			12:27																				
ZZZZZZ			12:29																				
ZZZZZZ			12:31																				
ZZZZZZ			12:32																				
ZZZZZZ			12:35																				
ZZZZZZ			12:37																				
ZZZZZZ			12:39																				
ZZZZZZ			12:41																				
ZZZZZZ			12:42																				
ZZZZZZ			12:44																				
CCV 480-72597/28	1		12:46	X																			
CCB 480-72597/29	1		12:48	X																			
ZZZZZZ			12:50																				
ZZZZZZ			12:52																				
ZZZZZZ			12:54																				
ZZZZZZ			12:56																				
ZZZZZZ			12:57																				
MB 480-72471/1-A	1	T	12:59	X																			
LCS 480-72471/2-A	1	T	13:01	X																			
ZZZZZZ			13:02																				
ZZZZZZ			13:04																				
ZZZZZZ			13:06																				
CCV 480-72597/40	1		13:08	X																			
CCB 480-72597/41	1		13:09	X																			
ZZZZZZ			13:11																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/16/2012 11:55 End Date: 07/16/2012 15:29

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			13:13																				
ZZZZZZ			13:15																				
ZZZZZZ			13:17																				
ZZZZZZ			13:19																				
ZZZZZZ			13:20																				
ZZZZZZ			13:22																				
ZZZZZZ			13:24																				
ZZZZZZ			13:25																				
ZZZZZZ			13:27																				
CCV 480-72597/52	1		13:29	X																			
CCB 480-72597/53	1		13:30	X																			
ZZZZZZ			13:32																				
ZZZZZZ			13:34																				
ZZZZZZ			13:35																				
480-22600-1	1	T	13:37	X																			
480-22600-3	1	T	13:39	X																			
480-22600-5	1	T	13:41	X																			
ZZZZZZ			13:43																				
ZZZZZZ			13:44																				
ZZZZZZ			13:46																				
ZZZZZZ			13:48																				
CCV 480-72597/64	1		13:50	X																			
CCB 480-72597/65	1		13:51	X																			
ZZZZZZ			13:53																				
ZZZZZZ			13:55																				
ZZZZZZ			13:57																				
ZZZZZZ			13:59																				
ZZZZZZ			14:01																				
ZZZZZZ			14:02																				
ZZZZZZ			14:04																				
ZZZZZZ			14:06																				
ZZZZZZ			14:08																				
ZZZZZZ			14:10																				
CCV 480-72597/76			14:12																				
CCB 480-72597/77			14:14																				
ZZZZZZ			14:15																				
ZZZZZZ			14:17																				
ZZZZZZ			14:19																				
ZZZZZZ			14:21																				
ZZZZZZ			14:23																				
ZZZZZZ			14:25																				
ZZZZZZ			14:26																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/16/2012 11:55 End Date: 07/16/2012 15:29

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:28																				
ZZZZZZ			14:30																				
ZZZZZZ			14:31																				
CCV 480-72597/88			14:35																				
CCB 480-72597/89			14:36																				
ZZZZZZ			14:38																				
ZZZZZZ			14:40																				
ZZZZZZ			14:41																				
CCV 480-72597/93			14:43																				
CCB 480-72597/94			14:45																				
ZZZZZZ			14:54																				
ZZZZZZ			14:56																				
ZZZZZZ			14:58																				
ZZZZZZ			15:00																				
CRA 480-72597/99	1		15:02	X																			
CCV 480-72597/100	1		15:04	X																			
CCB 480-72597/101	1		15:06	X																			
480-22567-3	20	T	15:26	X																			
CCV 480-72597/103	1		15:27	X																			
CCB 480-72597/104	1		15:29	X																			

Prep Types
T = Total/NA

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧ ?

Protocol hgppb

Dataset/Proto H07162D1/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.16276e-5

C -6.09336e-2

rho .999951

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs. 862183

Accepted

New

Include S8 Rep 1 2 3 4 5

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.032	-.032	2485	1667	4194	865	2394
02	.20000	.171	-.029	19912	8.61%	21368	18022	20348
03	1.0000	1.01	.012	92306	1.55%	93438	90697	92785
04	2.0000	2.03	.027	179548	1.61%	180918	176226	181500
05	5.0000	5.06	.058	440245	0.89%	436490	444312	439931
06	10.000	9.96	-.036	862184	0.3%	864858	862007	859685

Ready CAP NUM

L2

7/16/12

72488

Cal: H07162C1

Run: H07162D1

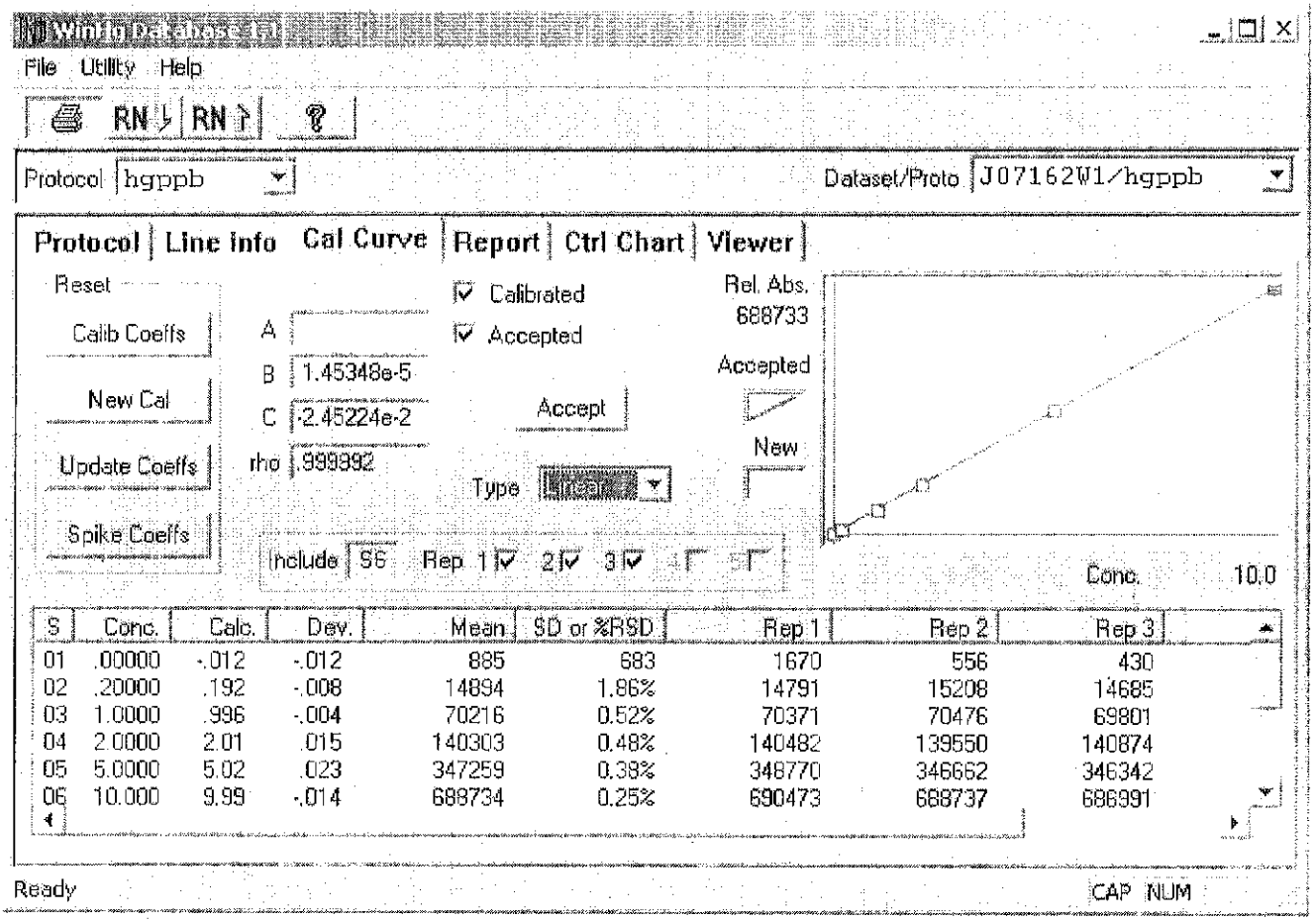
Batches: 72484

POST-RUN REPORT

72488

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV        Seq:  1       12:31:26 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.6     2.96    3.00   ppb        .000

*** Check Standard: 1  Ck1ICB        Seq:  2       12:33:03 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.061     .200     ppb        .000

*** Check Standard: 4  Ck4CRA        Seq:  3       12:35:11 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          80.3     .161    .200   ppb        .000

*** Check Standard: 3  Ck3CCV        Seq:  4       12:37:00 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.7     1.95    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  5       12:38:36 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.061     .200     ppb        .000

*** Sample ID:                       Seq:  6       12:40:35 16 Jul 12   HG
                          mb 480-72057/15-b
Hg   -.042    ppb       .000     -.042

*** Sample ID:                       Seq:  7       12:42:21 16 Jul 12   HG
                          lcs 480-72057/16-b
Hg    3.84    ppb       .000      3.84

*** Sample ID:                       Seq:  8       12:44:11 16 Jul 12   HG
                          480-22567-a-2-a
Hg    .528    ppb       .000      .528

*** Sample ID:                       Seq:  9       12:45:46 16 Jul 12   HG
                          480-22567-a-4-a
Hg    1.12    ppb       .000      1.12

*** Sample ID:                       Seq:  10      12:47:33 16 Jul 12   HG
                          480-22567-a-6-a
Hg   -.039    ppb       .000     -.039

*** Sample ID:                       Seq:  11      12:49:13 16 Jul 12   HG
                          480-22567-a-8-a
Hg   -.043    ppb       .000     -.043

*** Sample ID:                       Seq:  12      12:50:51 16 Jul 12   HG
                          480-22567-a-10-a
Hg   -.018    ppb       .000     -.018

*** Sample ID:                       Seq:  13      12:52:32 16 Jul 12   HG
                          480-22600-a-2-a
Hg   -.051    ppb       .000     -.051

*** Sample ID:                       Seq:  14      12:54:08 16 Jul 12   HG
                          480-22600-a-4-a
Hg   -.060    ppb       .000     -.060

*** Sample ID:                       Seq:  15      12:55:45 16 Jul 12   HG
                          480-22600-a-6-a
Hg   -.036    ppb       .000     -.036
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV       Seq:  16      12:57:36 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.3     1.95    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  17      12:59:11 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.047     .200     ppb        .000

*** Sample ID:                      Seq:  18      13:00:53 16 Jul 12   HG
                          480-22384-h-2-b
Hg   -.070    ppb       .000     -.070

*** Sample ID:                      Seq:  19      13:02:31 16 Jul 12   HG
                          480-22384-h-3-b
Hg   -.062    ppb       .000     -.062

*** Sample ID:                      Seq:  20      13:04:17 16 Jul 12   HG
                          480-22384-h-4-d
Hg   -.102    ppb       .000     -.102

*** Sample ID:                      Seq:  21      13:06:05 16 Jul 12   HG
                          480-22447-a-2-a
Hg    .611    ppb       .000      .611

*** Sample ID:                      Seq:  22      13:07:46 16 Jul 12   HG
                          480-22447-a-2-a SD@5
Hg    .069    ppb       .000      .069

*** Sample ID:                      Seq:  23      13:09:23 16 Jul 12   HG
                          480-22447-a-2-b ms
Hg    4.47    ppb       .000      4.47

*** Sample ID:                      Seq:  24      13:11:01 16 Jul 12   HG
                          480-22447-a-2-c msd
Hg    4.45    ppb       .000      4.45

*** Sample ID:                      Seq:  25      13:12:39 16 Jul 12   HG
                          480-22457-f-1-h
Hg   -.051    ppb       .000     -.051

*** Check Standard: 4  Ck4CRA       Seq:  26      13:14:21 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          82.3     .165    .200   ppb        .000

*** Check Standard: 3  Ck3CCV       Seq:  27      13:16:28 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.9     1.94    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  28      13:18:17 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.065     .200     ppb        .000
```



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.012	-.012	885	683	1670	556	430
02	.20000	.192	-.008	14894	1.86%	14791	15208	14685
03	1.0000	.996	-.004	70216	0.52%	70371	70476	69801
04	2.0000	2.01	.015	140303	0.48%	140482	139550	140874
05	5.0000	5.02	.023	347259	0.38%	348770	346662	346342
06	10.000	9.99	-.014	688734	0.25%	690473	688737	686991

L3

7/16/12

72488

Cal: J07162C1

Run: J07162W1

Batches: 72469

72471

72472

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV        Seq:  1       11:55:00 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.4     2.95    3.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  2       11:56:46 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.015     .200     ppb        .000

*** Check Standard: 4  Ck4CRA        Seq:  3       11:59:18 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.8     .198    .200   ppb        .000

*** Check Standard: 3  Ck3CCV        Seq:  4       12:01:13 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.8     1.98    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  5       12:02:50 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.022     .200     ppb        .000

*** Sample ID:                       Seq:  6       12:04:37 16 Jul 12   HG
                          mb 480-72469/1-a
Hg   -.010    ppb       .000     -.010

*** Sample ID:                       Seq:  7       12:06:35 16 Jul 12   HG
                          lcs 480-72469/2-a
Hg    3.94    ppb       .000      3.94

*** Sample ID:                       Seq:  8       12:08:35 16 Jul 12   HG
                          480-22567-a-1-a
Hg    6.06    ppb       .000      6.06

*** Sample ID:                       Seq:  9       12:10:20 16 Jul 12   HG
                          480-22567-a-3-a
Hg    64.4  H ppb       .000      64.4

*** Sample ID:                       Seq:  10      12:12:19 16 Jul 12   HG
                          480-22567-a-5-a
Hg    .095    ppb       .000      .095

*** Sample ID:                       Seq:  11      12:14:05 16 Jul 12   HG
                          480-22567-a-7-a
Hg    .163    ppb       .000      .163

*** Sample ID:                       Seq:  12      12:15:42 16 Jul 12   HG
                          480-22567-a-9-a
Hg    .028    ppb       .000      .028

*** Sample ID:                       Seq:  13      12:17:31 16 Jul 12   HG
                          480-22490-g-1-b
Hg   -.019    ppb       .000     -.019

*** Sample ID:                       Seq:  14      12:19:20 16 Jul 12   HG
                          480-22490-g-1-b SD@5
Hg    .004    ppb       .000      .004

*** Sample ID:                       Seq:  15      12:21:19 16 Jul 12   HG
                          480-22490-g-1-c ms
Hg    3.85    ppb       .000      3.85
```

72488

RR 1:2

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 12:23:26 16 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.1	1.98	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 12:25:22 16 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.019	.200	ppb	.000

*** Sample ID: Seq: 18 12:27:23 16 Jul 12 HG
480-22490-g-1-d msd

Hg	3.84	ppb	.000	3.84

*** Sample ID: Seq: 19 12:29:31 16 Jul 12 HG
480-22490-g-2-b

Hg	-.019	ppb	.000	-.019

*** Sample ID: Seq: 20 12:31:06 16 Jul 12 HG
480-22490-g-3-d

Hg	-.012	ppb	.000	-.012

*** Sample ID: Seq: 21 12:32:43 16 Jul 12 HG
480-22490-g-4-b

Hg	-.008	ppb	.000	-.008

*** Sample ID: Seq: 22 12:35:44 16 Jul 12 HG
480-22490-g-5-b

Hg	.213	ppb	.000	.213

*** Sample ID: Seq: 23 12:37:30 16 Jul 12 HG
480-22490-g-6-b

Hg	.229	ppb	.000	.229

*** Sample ID: Seq: 24 12:39:05 16 Jul 12 HG
480-22490-g-7-b

Hg	-.019	ppb	.000	-.019

*** Sample ID: Seq: 25 12:41:02 16 Jul 12 HG
480-22488-c-1-b

Hg	-.010	ppb	.000	-.010

*** Sample ID: Seq: 26 12:42:38 16 Jul 12 HG
480-22488-c-2-b

Hg	-.010	ppb	.000	-.010

*** Sample ID: Seq: 27 12:44:45 16 Jul 12 HG
480-22488-c-3-d

Hg	-.012	ppb	.000	-.012

*** Check Standard: 3 Ck3CCV Seq: 28 12:46:21 16 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.6	1.97	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 12:48:12 16 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.003	.200	ppb	.000

*** Sample ID: Seq: 30 12:50:29 16 Jul 12 HG
480-22488-c-4-b

Hg	-.014	ppb	.000	-.014

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 12:52:46 16 Jul 12 HG
480-22488-c-5-b

Hg	-.006	ppb	.000	-.006

*** Sample ID: Seq: 32 12:54:27 16 Jul 12 HG
480-22488-c-6-b

Hg	-.012	ppb	.000	-.012

*** Sample ID: Seq: 33 12:56:07 16 Jul 12 HG
480-22460-i-1-b

Hg	.032	ppb	.000	.032

*** Sample ID: Seq: 34 12:57:47 16 Jul 12 HG
480-22485-f-1-b

Hg	-.014	ppb	.000	-.014

*** Sample ID: Seq: 35 12:59:22 16 Jul 12 HG
mb 480-72471/1-a

Hg	-.013	ppb	.000	-.013

*** Sample ID: Seq: 36 13:01:19 16 Jul 12 HG
lcs 480-72471/2-a

Hg	3.85	ppb	.000	3.85

*** Sample ID: Seq: 37 13:02:56 16 Jul 12 HG
480-22507-f-1-b

Hg	-.024	ppb	.000	-.024

*** Sample ID: Seq: 38 13:04:47 16 Jul 12 HG
480-22507-f-2-b

Hg	.006	ppb	.000	.006

*** Sample ID: Seq: 39 13:06:24 16 Jul 12 HG
480-22507-f-3-d

Hg	-.011	ppb	.000	-.011

*** Check Standard: 3 Ck3CCV Seq: 40 13:08:11 16 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.3	1.97	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 41 13:09:51 16 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.015	.200	ppb	.000

*** Sample ID: Seq: 42 13:11:26 16 Jul 12 HG
480-22507-f-4-b

Hg	-.008	ppb	.000	-.008

*** Sample ID: Seq: 43 13:13:03 16 Jul 12 HG
480-22507-f-5-b

Hg	-.009	ppb	.000	-.009

*** Sample ID: Seq: 44 13:15:21 16 Jul 12 HG
480-22489-c-3-b

Hg	.000	ppb	.000	.000

*** Sample ID: Seq: 45 13:17:16 16 Jul 12 HG
480-22489-c-4-b

Hg	-.015	ppb	.000	-.015

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 46 13:19:06 16 Jul 12 HG
480-22489-c-5-b

Hg	-.009	ppb	.000	-.009

*** Sample ID: Seq: 47 13:20:41 16 Jul 12 HG
480-22489-c-6-b

Hg	-.011	ppb	.000	-.011

*** Sample ID: Seq: 48 13:22:18 16 Jul 12 HG
480-22489-c-6-b SD@5

Hg	-.005	ppb	.000	-.005

*** Sample ID: Seq: 49 13:24:14 16 Jul 12 HG
480-22489-c-6-c ms

Hg	3.12	ppb	.000	3.12

*** Sample ID: Seq: 50 13:25:49 16 Jul 12 HG
480-22489-c-6-d msd

Hg	2.98	ppb	.000	2.98

*** Sample ID: Seq: 51 13:27:25 16 Jul 12 HG
480-22489-c-7-b

Hg	-.014	ppb	.000	-.014

*** Check Standard: 3 Ck3CCV Seq: 52 13:29:11 16 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.6	1.99	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 53 13:30:48 16 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.016	.200	ppb	.000

*** Sample ID: Seq: 54 13:32:23 16 Jul 12 HG
480-22489-c-8-b

Hg	-.005	ppb	.000	-.005

*** Sample ID: Seq: 55 13:34:11 16 Jul 12 HG
480-22489-c-9-b

Hg	.032	ppb	.000	.032

*** Sample ID: Seq: 56 13:35:48 16 Jul 12 HG
480-22489-c-10-b

Hg	-.010	ppb	.000	-.010

*** Sample ID: Seq: 57 13:37:27 16 Jul 12 HG
480-22600-a-1-a

Hg	.471	ppb	.000	.471

*** Sample ID: Seq: 58 13:39:14 16 Jul 12 HG
480-22600-a-3-a

Hg	-.014	ppb	.000	-.014

*** Sample ID: Seq: 59 13:41:35 16 Jul 12 HG
480-22600-a-5-a

Hg	1.79	ppb	.000	1.79

*** Sample ID: Seq: 60 13:43:13 16 Jul 12 HG
480-22616-a-1-a@10

Hg	3.76	ppb	.000	3.76

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  61     13:44:49 16 Jul 12   HG
                              480-22616-b-3-a
Hg    1.02    ppb        .000      1.02

*** Sample ID:                          Seq:  62     13:46:26 16 Jul 12   HG
                              360-41587-d-3-a
Hg    .018    ppb        .000      .018

*** Sample ID:                          Seq:  63     13:48:13 16 Jul 12   HG
                              480-22376-s-1-b
Hg   -.012    ppb        .000     -.012

*** Check Standard: 3  Ck3CCV        Seq:  64     13:50:03 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.7     1.97    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  65     13:51:38 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.005     .200     ppb        .000

*** Sample ID:                          Seq:  66     13:53:16 16 Jul 12   HG
                              mb 480-72472/1-a
Hg   -.020    ppb        .000     -.020

*** Sample ID:                          Seq:  67     13:55:22 16 Jul 12   HG
                              lcs 480-72472/2-a
Hg    3.79    ppb        .000      3.79

*** Sample ID:                          Seq:  68     13:57:04 16 Jul 12   HG
                              480-22512-d-3-c
Hg   -.022    ppb        .000     -.022

*** Sample ID:                          Seq:  69     13:59:33 16 Jul 12   HG
                              480-22512-d-3-c SD@5
Hg   -.015    ppb        .000     -.015

*** Sample ID:                          Seq:  70     14:01:12 16 Jul 12   HG
                              480-22512-d-3-d ms
Hg    3.89    ppb        .000      3.89

*** Sample ID:                          Seq:  71     14:02:49 16 Jul 12   HG
                              480-22512-d-3-e msd
Hg    3.96    ppb        .000      3.96

*** Sample ID:                          Seq:  72     14:04:27 16 Jul 12   HG
                              480-22512-d-4-c
Hg   -.013    ppb        .000     -.013

*** Sample ID:                          Seq:  73     14:06:55 16 Jul 12   HG
                              480-22512-d-5-e
Hg    .032    ppb        .000      .032

*** Sample ID:                          Seq:  74     14:08:33 16 Jul 12   HG
                              480-22512-d-6-c
Hg   -.004    ppb        .000     -.004

*** Sample ID:                          Seq:  75     14:10:31 16 Jul 12   HG
                              480-22512-d-7-c
Hg   -.011    ppb        .000     -.011
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV        Seq:  76      14:12:09 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.8    1.98    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  77      14:14:14 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.016     .200     ppb        .000

*** Sample ID:                       Seq:  78      14:15:49 16 Jul 12   HG
                            480-22512-d-8-c
Hg   -.015    ppb       .000     -.015

*** Sample ID:                       Seq:  79      14:17:26 16 Jul 12   HG
                            480-22512-d-9-c
Hg   -.008    ppb       .000     -.008

*** Sample ID:                       Seq:  80      14:19:03 16 Jul 12   HG
                            480-22512-d-10-c
Hg   -.003    ppb       .000     -.003

*** Sample ID:                       Seq:  81      14:21:21 16 Jul 12   HG
                            480-22512-d-11-c
Hg   -.014    ppb       .000     -.014

*** Sample ID:                       Seq:  82      14:23:09 16 Jul 12   HG
                            480-22512-d-12-c
Hg   -.006    ppb       .000     -.006

*** Sample ID:                       Seq:  83      14:25:06 16 Jul 12   HG
                            480-22512-d-13-c
Hg    .004    ppb       .000      .004

*** Sample ID:                       Seq:  84      14:26:43 16 Jul 12   HG
                            480-22513-g-1-b
Hg    .022    ppb       .000      .022

*** Sample ID:                       Seq:  85      14:28:39 16 Jul 12   HG
                            480-22618-a-1-a@50
RR1:20 Hg    49.4  H ppb       .000      49.4

*** Sample ID:                       Seq:  86      14:30:17 16 Jul 12   HG
                            480-22618-a-2-a@10
RR1:5 Hg    24.3  H ppb       .000      24.3

*** Sample ID:                       Seq:  87      14:31:54 16 Jul 12   HG
                            480-22618-a-3-a
RR1:10 Hg    25.6  H ppb       .000      25.6

*** Check Standard: 3  Ck3CCV        Seq:  88      14:35:01 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.2    1.96    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  89      14:36:42 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.024     .200     ppb        .000

*** Sample ID:                       Seq:  90      14:38:33 16 Jul 12   HG
                            480-22618-a-4-a
RR1:10 Hg    21.2  H ppb       .000      21.2
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  91     14:40:10 16 Jul 12   HG
                              480-22618-a-5-a@10
Hg    3.19    ppb        .000      3.19

*** Sample ID:                          Seq:  92     14:41:49 16 Jul 12   HG
                              480-22618-a-6-a
Hg   -.026    ppb        .000     -.026

*** Check Standard: 3  Ck3CCV          Seq:  93     14:43:27 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.2     1.96    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB          Seq:  94     14:45:02 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.013     .200     ppb        .000

*** Sample ID:                          Seq:  98     14:54:30 16 Jul 12   HG
                              480-22618-a-4-a@10
Hg    2.23    ppb        .000      2.23

*** Sample ID:                          Seq:  99     14:56:36 16 Jul 12   HG
                              480-22618-a-1-a@1000
Hg    3.09    ppb        .000      3.09

*** Sample ID:                          Seq:  100    14:58:35 16 Jul 12   HG
                              480-22618-a-2-a@50
Hg    5.34    ppb        .000      5.34

*** Sample ID:                          Seq:  101    15:00:53 16 Jul 12   HG
                              480-22618-a-3-a@10
Hg    2.85    ppb        .000      2.85

*** Check Standard: 4  Ck4CRA          Seq:  102    15:02:43 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          87.9     .176    .200   ppb        .000

*** Check Standard: 3  Ck3CCV          Seq:  103    15:04:28 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.8     1.96    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB          Seq:  104    15:06:02 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.026     .200     ppb        .000

*** Sample ID:                          Seq:  105    15:26:20 16 Jul 12   HG
                              480-22567-a-3-a@20
Hg    4.27    ppb        .000      4.27

*** Check Standard: 3  Ck3CCV          Seq:  106    15:27:57 16 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.6     1.93    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB          Seq:  107    15:29:42 16 Jul 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.022     .200     ppb        .000
```

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Batch Number: 72469 Batch Start Date: 07/16/12 08:45 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00139			
MB 480-72469/1		7470A, 7470A		30 mL	50 mL				
LCS 480-72469/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-22567-A-1	MR-GW-ISS-DP-11-60-64-T	7470A, 7470A	T	30 mL	50 mL				
480-22567-A-3	MR-GW-ISS-DP-14-18-22-T	7470A, 7470A	T	30 mL	50 mL				
480-22567-A-5	MR-GW-ISS-DP-14-28-32-T	7470A, 7470A	T	30 mL	50 mL				
480-22567-A-7	MR-GW-DUP071212-T	7470A, 7470A	T	30 mL	50 mL				
480-22567-A-9	MR-GW-ISS-DP-14-38-42-T	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 72488
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-A
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	7972052
Oven, Bath or Block Temperature 1	94.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Batch Number: 72471 Batch Start Date: 07/16/12 08:45 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00139			
MB 480-72471/1		7470A, 7470A		30 mL	50 mL				
LCS 480-72471/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-22600-A-1	MR-GW-ISS-DP-14-48-52-T	7470A, 7470A	T	30 mL	50 mL				
480-22600-A-3	MR-FB-071312-T	7470A, 7470A	T	30 mL	50 mL				
480-22600-A-5	MR-GW-ISS-DP-14-58-62-T	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 72488
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-A
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	7972052
Oven, Bath or Block Temperature 1	94.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22567-1

SDG No.:

Batch Number: 72484 Batch Start Date: 07/16/12 09:00 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00139			
MB 480-72057/15-A		7470A, 7470A		30 mL	50 mL				
LCS 480-72057/16-A		7470A, 7470A		30 mL	50 mL	2 mL			
480-22567-A-2	MR-GW-ISS-DP-11-60-64-F	7470A, 7470A	D	30 mL	50 mL				
480-22567-A-4	MR-GW-ISS-DP-14-18-22-F	7470A, 7470A	D	30 mL	50 mL				
480-22567-A-6	MR-GW-ISS-DP-14-28-32-F	7470A, 7470A	D	30 mL	50 mL				
480-22567-A-8	MR-GW-DUP071212-F	7470A, 7470A	D	30 mL	50 mL				
480-22567-A-10	MR-GW-ISS-DP-14-38-42-D	7470A, 7470A	D	30 mL	50 mL				
480-22600-A-2	MR-GW-ISS-DP-14-48-52-D	7470A, 7470A	D	30 mL	50 mL				
480-22600-A-4	MR-FB-071312-F	7470A, 7470A	D	30 mL	50 mL				
480-22600-A-6	MR-GW-ISS-DP-14-58-62-D	7470A, 7470A	D	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 72488
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-C
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	7972052
Oven, Bath or Block Temperature 1	93.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	94.0 Celsius

Basis	Basis Description
D	Dissolved

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Brown and Caldwell	Frank Williams	7/12/12	228182
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of
110 Commerce Dr	201-574-4700 / 201-236 16.1		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Allendale / NJ / 07401	Catie Mino	Brian Fischer	
Project Name and Location (State)	**Carrier/Waybill Number**		
Mirec, Celanese, NY	—		
Contract/Purchase Order/Quote No.			
—			

Analysis (Attach list if more space is needed): Mercury 7470A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Mercury 7470A
MR-GW-SS-DP 11-60-64-T	7/12/12	9:20		X					X				X
MR-GW-SS-DP-11-60-64-F	7/12/12	9:20		X					X				X
MR-GW-SS-DP 14-18-22-T	7/12/12	10:25		X					X				X
MR-GW-SS DP-14-18-22-F	7/12/12	10:25		X					X				X
MR-GW-SS-DP-14-28-32-T	7/12/12	10:45		X					X				X
MR-GW-SS DP-14-28-32-F	7/12/12	10:45		X					X				X
MR-GW-DUP 071212-T	7/12/12	99:99		X					X				X
MR-GW-DUP 071212-F	7/12/12	99:99		X					X				X
MR-GW-SS-DP-14-38-42-T	7/12/12	14:20		X					X				X
MR-GW-SS-DP-14-38-42-D	7/12/12	14:20		X					X				X

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 3 days

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7/12/12	15:15	1. Received By TR	7/12/12	15:15
2. Relinquished By	7/12/12	17:00	2. Received By	7/13/12	0900
3. Relinquished By			3. Received By		

Comments: 3,4 #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(R)

Client	Project Manager	Date	Chain of Custody Number
Brown and Caldwell	Frank Williams	7/13/12	228180
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
110 Commerce Dr.	201-574-4700 / 201-336-1607	—	Page 1 of _____
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Allendale / NJ / 07401	Cate Wino	Brian Fischer	
Project Name and Location (State)	**Carrier/Waybill Number**		
Moreco, Colonie NY	—		
Contract/Purchase Order/Quote No			
—			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Mercury 7470A											Special Instructions/ Conditions of Receipt
MR-GW-ISS-DP-14-48-52-T	7/13/12	8:45		X						X					X											
MR-GW-ISS-DP-14-48-52-D	7/13/12	8:45		X						X					X											
MR-FB-071312-T	7/13/12	9:30		X						X					X											
MR-FB-071312-F	7/13/12	9:30		X						X					X											
MR-GW-ISS-DP-14-58-62-T	7/13/12	10:10		X						X					X											
MR-GW-ISS-DP-14-58-62-D	7/13/12	10:10		X						X					X											

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 3 days

QC Requirements (Specify)

1. Relinquished By	Date 7/13/12	Time 11:50	1. Received By	Date 7/13/12	Time 11:50
2. Relinquished By	Date 7/13/12	Time 1700	2. Received By TRANSFACO	Date 7/14/12	Time 0900
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 2.5°C #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-22567-1

Login Number: 22567

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-22567-1

Login Number: 22600

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-22646-1

Job Description: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, NJ 07401

Attention: Ms. Carolyn A Spinapolice

Approved for release.
Brian Fischer
Project Manager II
7/26/2012 9:59 AM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com
07/26/2012

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Job Narrative
480-22646-1

Comments
No additional comments.

Receipt
The samples were received on 7/17/2012 9:00 AM, 7/18/2012 9:00 AM and 7/19/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8º C, 2.9º C and 2.9º C.

Metals
Method(s) 7470A: The following sample was diluted to bring the concentration of target analyte total mercury within the calibration range: MR-GW-ISS-DP-12-11-15-T (480-22692-7). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-22646-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-22646-1	MR-GW-ISS-DP-15-22-26-T	Water	07/16/2012 1130	07/17/2012 0900
480-22646-2	MR-GW-ISS-DP-15-22-26-D	Water	07/16/2012 1130	07/17/2012 0900
480-22646-3	MR-GW-ISS-DP-15-12-16-T	Water	07/16/2012 1140	07/17/2012 0900
480-22646-4	MR-GW-ISS-DP-15-12-16-D	Water	07/16/2012 1140	07/17/2012 0900
480-22646-5	MR-GW-ISS-DP-15-32-36-T	Water	07/16/2012 1325	07/17/2012 0900
480-22646-6	MR-GW-ISS-DP-15-32-36-D	Water	07/16/2012 1325	07/17/2012 0900
480-22646-7	MR-GW-ISS-DP-15-42-46-T	Water	07/16/2012 1605	07/17/2012 0900
480-22646-8	MR-GW-ISS-DP-15-42-46-D	Water	07/16/2012 1605	07/17/2012 0900
480-22692-1	MR-GW-ISS-DP-15-52-56-T	Water	07/17/2012 0855	07/18/2012 0900
480-22692-2	MR-GW-ISS-DP-15-52-56-D	Water	07/17/2012 0855	07/18/2012 0900
480-22692-3	MR-GW-ISS-DP-15-62-66-T	Water	07/17/2012 1040	07/18/2012 0900
480-22692-4	MR-GW-ISS-DP-15-62-66-D	Water	07/17/2012 1040	07/18/2012 0900
480-22692-5	MR-GW-ISS-DP-12-21-25-T	Water	07/17/2012 1345	07/18/2012 0900
480-22692-5MS	MR-GW-ISS-DP-12-21-25-T	Water	07/17/2012 1345	07/18/2012 0900
480-22692-5MSD	MR-GW-ISS-DP-12-21-25-T	Water	07/17/2012 1345	07/18/2012 0900
480-22692-6	MR-GW-ISS-DP-12-21-25-D	Water	07/17/2012 1345	07/18/2012 0900
480-22692-6MS	MR-GW-ISS-DP-12-21-25-D	Water	07/17/2012 1345	07/18/2012 0900
480-22692-6MSD	MR-GW-ISS-DP-12-21-25-D	Water	07/17/2012 1345	07/18/2012 0900
480-22692-7	MR-GW-ISS-DP-12-11-15-T	Water	07/17/2012 1415	07/18/2012 0900
480-22692-8	MR-GW-ISS-DP-12-11-15-D	Water	07/17/2012 1415	07/18/2012 0900
480-22692-9	MR-GW-ISS-DP-12-31-35-T	Water	07/17/2012 1535	07/18/2012 0900
480-22692-10	MR-GW-ISS-DP-12-31-35-D	Water	07/17/2012 1535	07/18/2012 0900
480-22692-11	MR-GW-ISS-DP-12-41-45-T	Water	07/17/2012 1555	07/18/2012 0900
480-22692-12	MR-GW-ISS-DP-12-41-45-D	Water	07/17/2012 1555	07/18/2012 0900
480-22783-1	MR-GW-ISS-DP-12-51-55-T	Water	07/18/2012 0830	07/19/2012 0900
480-22783-2	MR-GW-ISS-DP-12-51-55-D	Water	07/18/2012 0830	07/19/2012 0900

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-22646-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-22646-1	**MR-GW-ISS-DP-15-22-26-T**					
Mercury, Total		1.1		0.20	ug/L	7470A
480-22646-3	**MR-GW-ISS-DP-15-12-16-T**					
Mercury, Total		8.1		0.20	ug/L	7470A
480-22646-4	**MR-GW-ISS-DP-15-12-16-D**					
Dissolved						
Mercury, Dissolved		1.7		0.20	ug/L	7470A
480-22692-3	**MR-GW-ISS-DP-15-62-66-T**					
Mercury, Total		0.91		0.20	ug/L	7470A
480-22692-5	**MR-GW-ISS-DP-12-21-25-T**					
Mercury, Total		0.68		0.20	ug/L	7470A
480-22692-7	**MR-GW-ISS-DP-12-11-15-T**					
Mercury, Total		67.2		2.0	ug/L	7470A
480-22692-8	**MR-GW-ISS-DP-12-11-15-D**					
Dissolved						
Mercury, Dissolved		1.6		0.20	ug/L	7470A
480-22692-11	**MR-GW-ISS-DP-12-41-45-T**					
Mercury, Total		0.46		0.20	ug/L	7470A

METHOD SUMMARY

Client: Brown and Caldwell

Job Number: 480-22646-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Brown and Caldwell

Job Number: 480-22646-1

Method	Analyst	Analyst ID
SW846 7470A	Kacalski, Jason	JRK

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-22-26-T**

Lab Sample ID: 480-22646-1

Client Matrix: Water

Date Sampled: 07/16/2012 1130

Date Received: 07/17/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72937	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72864	Lab File ID:	J07182W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1640			Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	1.1		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-22-26-D**

Lab Sample ID: 480-22646-2

Client Matrix: Water

Date Sampled: 07/16/2012 1130

Date Received: 07/17/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72936	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72866	Lab File ID:	J07182D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1545			Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0930				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-12-16-T**

Lab Sample ID: 480-22646-3

Client Matrix: Water

Date Sampled: 07/16/2012 1140

Date Received: 07/17/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72937	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72864	Lab File ID:	J07182W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1645			Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	8.1		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-12-16-D**

Lab Sample ID: 480-22646-4

Client Matrix: Water

Date Sampled: 07/16/2012 1140

Date Received: 07/17/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72936	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72866	Lab File ID:	J07182D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1547			Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0930				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	1.7		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-32-36-T**

Lab Sample ID: 480-22646-5

Client Matrix: Water

Date Sampled: 07/16/2012 1325

Date Received: 07/17/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72937	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72864	Lab File ID:	J07182W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1646			Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-32-36-D**

Lab Sample ID: 480-22646-6

Client Matrix: Water

Date Sampled: 07/16/2012 1325

Date Received: 07/17/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72936	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72866	Lab File ID:	J07182D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1549			Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0930				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-42-46-T**

Lab Sample ID: 480-22646-7

Client Matrix: Water

Date Sampled: 07/16/2012 1605

Date Received: 07/17/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-72937	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72864	Lab File ID:	J07182W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1649			Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0920				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-42-46-D**

Lab Sample ID: 480-22646-8

Client Matrix: Water

Date Sampled: 07/16/2012 1605

Date Received: 07/17/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-72936	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-72866	Lab File ID:	J07182D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1550			Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0930				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-52-56-T**

Lab Sample ID: 480-22692-1

Client Matrix: Water

Date Sampled: 07/17/2012 0855

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1530			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-52-56-D**

Lab Sample ID: 480-22692-2

Client Matrix: Water

Date Sampled: 07/17/2012 0855

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1618			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-62-66-T**

Lab Sample ID: 480-22692-3

Client Matrix: Water

Date Sampled: 07/17/2012 1040

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1531			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.91		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-15-62-66-D**

Lab Sample ID: 480-22692-4

Client Matrix: Water

Date Sampled: 07/17/2012 1040

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1620			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-12-21-25-T**

Lab Sample ID: 480-22692-5

Client Matrix: Water

Date Sampled: 07/17/2012 1345

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1533			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.68		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-12-21-25-D**

Lab Sample ID: 480-22692-6

Client Matrix: Water

Date Sampled: 07/17/2012 1345

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1622			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-12-11-15-T**

Lab Sample ID: 480-22692-7

Client Matrix: Water

Date Sampled: 07/17/2012 1415

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	10			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1623			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	67.2		2.0

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-12-11-15-D**

Lab Sample ID: 480-22692-8

Client Matrix: Water

Date Sampled: 07/17/2012 1415

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1630			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	1.6		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-12-31-35-T**

Lab Sample ID: 480-22692-9

Client Matrix: Water

Date Sampled: 07/17/2012 1535

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1541			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-12-31-35-D**

Lab Sample ID: 480-22692-10

Client Matrix: Water

Date Sampled: 07/17/2012 1535

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1632			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-12-41-45-T**

Lab Sample ID: 480-22692-11

Client Matrix: Water

Date Sampled: 07/17/2012 1555

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1547			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	0.46		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-12-41-45-D**

Lab Sample ID: 480-22692-12

Client Matrix: Water

Date Sampled: 07/17/2012 1555

Date Received: 07/18/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1637			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-12-51-55-T**

Lab Sample ID: 480-22783-1

Client Matrix: Water

Date Sampled: 07/18/2012 0830

Date Received: 07/19/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-73265	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-73185	Lab File ID:	H7202W2.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/20/2012 1303			Final Weight/Volume:	50 mL
Prep Date:	07/20/2012 0900				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Client Sample ID: **MR-GW-ISS-DP-12-51-55-D**

Lab Sample ID: 480-22783-2

Client Matrix: Water

Date Sampled: 07/18/2012 0830

Date Received: 07/19/2012 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	480-73294	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-73212	Lab File ID:	J07202D1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/20/2012 1538			Final Weight/Volume:	50 mL
Prep Date:	07/20/2012 0910				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Dissolved	ND		0.20

Client: Brown and Caldwell

Job Number: 480-22646-1

Method Blank - Batch: 480-72864

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-72864/1-A	Analysis Batch:	480-72937	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72864	Lab File ID:	J07182W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1625	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0920				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-72864

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-72864/2-A	Analysis Batch:	480-72937	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72864	Lab File ID:	J07182W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1626	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0920				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.75	101	80 - 120	

Client: Brown and Caldwell

Job Number: 480-22646-1

Method Blank - Batch: 480-72866

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	MB 480-72057/29-B	Analysis Batch:	480-72936	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72866	Lab File ID:	J07182D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1541	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0930				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Dissolved	ND		0.20

Lab Control Sample - Batch: 480-72866

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	LCS 480-72057/30-B	Analysis Batch:	480-72936	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-72866	Lab File ID:	J07182D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/18/2012 1542	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/18/2012 0930				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Dissolved	6.67	6.58	99	80 - 120	

Client: Brown and Caldwell

Job Number: 480-22646-1

Method Blank - Batch: 480-73001

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	MB 480-73002/1-B	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1615	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Dissolved	ND		0.20

Lab Control Sample - Batch: 480-73001

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	LCS 480-73002/2-B	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1617	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Dissolved	6.67	6.33	95	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-73001

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	480-22692-6	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1626			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	480-22692-6	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1628			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Dissolved	102	101	75 - 125	1	20		

Client: Brown and Caldwell

Job Number: 480-22646-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-73001

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	480-22692-6	Units: ug/L	MSD Lab Sample ID:	480-22692-6
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	07/19/2012 1626		Analysis Date:	07/19/2012 1628
Prep Date:	07/19/2012 0800		Prep Date:	07/19/2012 0800
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury, Dissolved	ND	6.67	6.67	6.83	6.75

Serial Dilution - Batch: 480-73001

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	480-22692-6	Analysis Batch:	480-73131	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-73001	Lab File ID:	J07192D4.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1623	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Dissolved	ND	ND	NC	10	

Client: Brown and Caldwell

Job Number: 480-22646-1

Method Blank - Batch: 480-73014

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-73014/1-A	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1526	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-73014

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-73014/2-A	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1528	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.63	99	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-73014

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-22692-5	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1536			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				
Leach Date:	N/A				

MSD Lab Sample ID:	480-22692-5	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1538			Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury, Total	100	99	75 - 125	1	20		

Client: Brown and Caldwell

Job Number: 480-22646-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-73014

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-22692-5	Units: ug/L	MSD Lab Sample ID:	480-22692-5
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	07/19/2012 1536		Analysis Date:	07/19/2012 1538
Prep Date:	07/19/2012 0840		Prep Date:	07/19/2012 0840
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury, Total	0.68	6.67	6.67	7.32	7.25

Serial Dilution - Batch: 480-73014

Method: 7470A
Preparation: 7470A

Lab Sample ID:	480-22692-5	Analysis Batch:	480-73125	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-73014	Lab File ID:	H07192W4.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/19/2012 1535	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/19/2012 0840				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury, Total	0.68	ND	NC	10	

Client: Brown and Caldwell

Job Number: 480-22646-1

Method Blank - Batch: 480-73185

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-73185/1-A	Analysis Batch:	480-73265	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-73185	Lab File ID:	H7202W2.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/20/2012 1234	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/20/2012 0900				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-73185

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-73185/2-A	Analysis Batch:	480-73265	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-73185	Lab File ID:	H7202W2.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/20/2012 1236	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/20/2012 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.48	97	80 - 120	

Client: Brown and Caldwell

Job Number: 480-22646-1

Method Blank - Batch: 480-73212

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	MB 480-73002/11-B	Analysis Batch:	480-73294	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-73212	Lab File ID:	J07202D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/20/2012 1534	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/20/2012 0910				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Dissolved	ND		0.20

Lab Control Sample - Batch: 480-73212

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID:	LCS 480-73002/12-B	Analysis Batch:	480-73294	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-73212	Lab File ID:	J07202D1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	07/20/2012 1536	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	07/20/2012 0910				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Dissolved	6.67	5.93	89	80 - 120	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Brown and Caldwell

Job Number: 480-22646-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-72864					
LCS 480-72864/2-A	Lab Control Sample	T	Water	7470A	
MB 480-72864/1-A	Method Blank	T	Water	7470A	
480-22646-1	MR-GW-ISS-DP-15-22-26-T	T	Water	7470A	
480-22646-3	MR-GW-ISS-DP-15-12-16-T	T	Water	7470A	
480-22646-5	MR-GW-ISS-DP-15-32-36-T	T	Water	7470A	
480-22646-7	MR-GW-ISS-DP-15-42-46-T	T	Water	7470A	
Prep Batch: 480-72866					
LCS 480-72057/30-B	Lab Control Sample	D	Water	7470A	
MB 480-72057/29-B	Method Blank	D	Water	7470A	
480-22646-2	MR-GW-ISS-DP-15-22-26-D	D	Water	7470A	
480-22646-4	MR-GW-ISS-DP-15-12-16-D	D	Water	7470A	
480-22646-6	MR-GW-ISS-DP-15-32-36-D	D	Water	7470A	
480-22646-8	MR-GW-ISS-DP-15-42-46-D	D	Water	7470A	
Analysis Batch:480-72936					
LCS 480-72057/30-B	Lab Control Sample	D	Water	7470A	480-72866
MB 480-72057/29-B	Method Blank	D	Water	7470A	480-72866
480-22646-2	MR-GW-ISS-DP-15-22-26-D	D	Water	7470A	480-72866
480-22646-4	MR-GW-ISS-DP-15-12-16-D	D	Water	7470A	480-72866
480-22646-6	MR-GW-ISS-DP-15-32-36-D	D	Water	7470A	480-72866
480-22646-8	MR-GW-ISS-DP-15-42-46-D	D	Water	7470A	480-72866
Analysis Batch:480-72937					
LCS 480-72864/2-A	Lab Control Sample	T	Water	7470A	480-72864
MB 480-72864/1-A	Method Blank	T	Water	7470A	480-72864
480-22646-1	MR-GW-ISS-DP-15-22-26-T	T	Water	7470A	480-72864
480-22646-3	MR-GW-ISS-DP-15-12-16-T	T	Water	7470A	480-72864
480-22646-5	MR-GW-ISS-DP-15-32-36-T	T	Water	7470A	480-72864
480-22646-7	MR-GW-ISS-DP-15-42-46-T	T	Water	7470A	480-72864
Prep Batch: 480-73001					
LCS 480-73002/2-B	Lab Control Sample	D	Water	7470A	
MB 480-73002/1-B	Method Blank	D	Water	7470A	
480-22692-2	MR-GW-ISS-DP-15-52-56-D	D	Water	7470A	
480-22692-4	MR-GW-ISS-DP-15-62-66-D	D	Water	7470A	
480-22692-6	MR-GW-ISS-DP-12-21-25-D	D	Water	7470A	
480-22692-6MS	Matrix Spike	D	Water	7470A	
480-22692-6MSD	Matrix Spike Duplicate	D	Water	7470A	
480-22692-8	MR-GW-ISS-DP-12-11-15-D	D	Water	7470A	
480-22692-10	MR-GW-ISS-DP-12-31-35-D	D	Water	7470A	
480-22692-12	MR-GW-ISS-DP-12-41-45-D	D	Water	7470A	

Client: Brown and Caldwell

Job Number: 480-22646-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-73014					
LCS 480-73014/2-A	Lab Control Sample	T	Water	7470A	
MB 480-73014/1-A	Method Blank	T	Water	7470A	
480-22692-1	MR-GW-ISS-DP-15-52-56-T	T	Water	7470A	
480-22692-3	MR-GW-ISS-DP-15-62-66-T	T	Water	7470A	
480-22692-5	MR-GW-ISS-DP-12-21-25-T	T	Water	7470A	
480-22692-5MS	Matrix Spike	T	Water	7470A	
480-22692-5MSD	Matrix Spike Duplicate	T	Water	7470A	
480-22692-7	MR-GW-ISS-DP-12-11-15-T	T	Water	7470A	
480-22692-9	MR-GW-ISS-DP-12-31-35-T	T	Water	7470A	
480-22692-11	MR-GW-ISS-DP-12-41-45-T	T	Water	7470A	
Analysis Batch:480-73125					
LCS 480-73014/2-A	Lab Control Sample	T	Water	7470A	480-73014
MB 480-73014/1-A	Method Blank	T	Water	7470A	480-73014
480-22692-1	MR-GW-ISS-DP-15-52-56-T	T	Water	7470A	480-73014
480-22692-3	MR-GW-ISS-DP-15-62-66-T	T	Water	7470A	480-73014
480-22692-5	MR-GW-ISS-DP-12-21-25-T	T	Water	7470A	480-73014
480-22692-5MS	Matrix Spike	T	Water	7470A	480-73014
480-22692-5MSD	Matrix Spike Duplicate	T	Water	7470A	480-73014
480-22692-7	MR-GW-ISS-DP-12-11-15-T	T	Water	7470A	480-73014
480-22692-9	MR-GW-ISS-DP-12-31-35-T	T	Water	7470A	480-73014
480-22692-11	MR-GW-ISS-DP-12-41-45-T	T	Water	7470A	480-73014
Analysis Batch:480-73131					
LCS 480-73002/2-B	Lab Control Sample	D	Water	7470A	480-73001
MB 480-73002/1-B	Method Blank	D	Water	7470A	480-73001
480-22692-2	MR-GW-ISS-DP-15-52-56-D	D	Water	7470A	480-73001
480-22692-4	MR-GW-ISS-DP-15-62-66-D	D	Water	7470A	480-73001
480-22692-6	MR-GW-ISS-DP-12-21-25-D	D	Water	7470A	480-73001
480-22692-6MS	Matrix Spike	D	Water	7470A	480-73001
480-22692-6MSD	Matrix Spike Duplicate	D	Water	7470A	480-73001
480-22692-8	MR-GW-ISS-DP-12-11-15-D	D	Water	7470A	480-73001
480-22692-10	MR-GW-ISS-DP-12-31-35-D	D	Water	7470A	480-73001
480-22692-12	MR-GW-ISS-DP-12-41-45-D	D	Water	7470A	480-73001
Prep Batch: 480-73185					
LCS 480-73185/2-A	Lab Control Sample	T	Water	7470A	
MB 480-73185/1-A	Method Blank	T	Water	7470A	
480-22783-1	MR-GW-ISS-DP-12-51-55-T	T	Water	7470A	
Prep Batch: 480-73212					
LCS 480-73002/12-B	Lab Control Sample	D	Water	7470A	
MB 480-73002/11-B	Method Blank	D	Water	7470A	
480-22783-2	MR-GW-ISS-DP-12-51-55-D	D	Water	7470A	

Client: Brown and Caldwell

Job Number: 480-22646-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-73265					
LCS 480-73185/2-A	Lab Control Sample	T	Water	7470A	480-73185
MB 480-73185/1-A	Method Blank	T	Water	7470A	480-73185
480-22783-1	MR-GW-ISS-DP-12-51-55-T	T	Water	7470A	480-73185
Analysis Batch:480-73294					
LCS 480-73002/12-B	Lab Control Sample	D	Water	7470A	480-73212
MB 480-73002/11-B	Method Blank	D	Water	7470A	480-73212
480-22783-2	MR-GW-ISS-DP-12-51-55-D	D	Water	7470A	480-73212

Report Basis

D = Dissolved

T = Total

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-22646-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Client: Brown and Caldwell

Job Number: 480-22646-1

Laboratory Chronicle

Lab ID: 480-22646-1 **Client ID:** MR-GW-ISS-DP-15-22-26-T

Sample Date/Time: 07/16/2012 11:30 Received Date/Time: 07/17/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22646-A-1-A		480-72937	480-72864	07/18/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22646-A-1-A		480-72937	480-72864	07/18/2012 16:40	1	TAL BUF	JRK

Lab ID: 480-22646-2 **Client ID:** MR-GW-ISS-DP-15-22-26-D

Sample Date/Time: 07/16/2012 11:30 Received Date/Time: 07/17/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22646-A-2-A		480-72936	480-72866	07/18/2012 09:30	1	TAL BUF	JRK
A:7470A	480-22646-A-2-A		480-72936	480-72866	07/18/2012 15:45	1	TAL BUF	JRK

Lab ID: 480-22646-3 **Client ID:** MR-GW-ISS-DP-15-12-16-T

Sample Date/Time: 07/16/2012 11:40 Received Date/Time: 07/17/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22646-A-3-A		480-72937	480-72864	07/18/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22646-A-3-A		480-72937	480-72864	07/18/2012 16:45	1	TAL BUF	JRK

Lab ID: 480-22646-4 **Client ID:** MR-GW-ISS-DP-15-12-16-D

Sample Date/Time: 07/16/2012 11:40 Received Date/Time: 07/17/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22646-A-4-A		480-72936	480-72866	07/18/2012 09:30	1	TAL BUF	JRK
A:7470A	480-22646-A-4-A		480-72936	480-72866	07/18/2012 15:47	1	TAL BUF	JRK

Lab ID: 480-22646-5 **Client ID:** MR-GW-ISS-DP-15-32-36-T

Sample Date/Time: 07/16/2012 13:25 Received Date/Time: 07/17/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22646-A-5-A		480-72937	480-72864	07/18/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22646-A-5-A		480-72937	480-72864	07/18/2012 16:46	1	TAL BUF	JRK

Lab ID: 480-22646-6 **Client ID:** MR-GW-ISS-DP-15-32-36-D

Sample Date/Time: 07/16/2012 13:25 Received Date/Time: 07/17/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22646-A-6-A		480-72936	480-72866	07/18/2012 09:30	1	TAL BUF	JRK
A:7470A	480-22646-A-6-A		480-72936	480-72866	07/18/2012 15:49	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22646-1

Laboratory Chronicle

Lab ID: 480-22646-7 **Client ID:** MR-GW-ISS-DP-15-42-46-T

Sample Date/Time: 07/16/2012 16:05 Received Date/Time: 07/17/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22646-A-7-A		480-72937	480-72864	07/18/2012 09:20	1	TAL BUF	JRK
A:7470A	480-22646-A-7-A		480-72937	480-72864	07/18/2012 16:49	1	TAL BUF	JRK

Lab ID: 480-22646-8 **Client ID:** MR-GW-ISS-DP-15-42-46-D

Sample Date/Time: 07/16/2012 16:05 Received Date/Time: 07/17/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22646-A-8-A		480-72936	480-72866	07/18/2012 09:30	1	TAL BUF	JRK
A:7470A	480-22646-A-8-A		480-72936	480-72866	07/18/2012 15:50	1	TAL BUF	JRK

Lab ID: 480-22692-1 **Client ID:** MR-GW-ISS-DP-15-52-56-T

Sample Date/Time: 07/17/2012 08:55 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-1-A		480-73125	480-73014	07/19/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22692-A-1-A		480-73125	480-73014	07/19/2012 15:30	1	TAL BUF	JRK

Lab ID: 480-22692-2 **Client ID:** MR-GW-ISS-DP-15-52-56-D

Sample Date/Time: 07/17/2012 08:55 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-2-A		480-73131	480-73001	07/19/2012 08:00	1	TAL BUF	JRK
A:7470A	480-22692-A-2-A		480-73131	480-73001	07/19/2012 16:18	1	TAL BUF	JRK

Lab ID: 480-22692-3 **Client ID:** MR-GW-ISS-DP-15-62-66-T

Sample Date/Time: 07/17/2012 10:40 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-3-A		480-73125	480-73014	07/19/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22692-A-3-A		480-73125	480-73014	07/19/2012 15:31	1	TAL BUF	JRK

Lab ID: 480-22692-4 **Client ID:** MR-GW-ISS-DP-15-62-66-D

Sample Date/Time: 07/17/2012 10:40 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-4-A		480-73131	480-73001	07/19/2012 08:00	1	TAL BUF	JRK
A:7470A	480-22692-A-4-A		480-73131	480-73001	07/19/2012 16:20	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22646-1

Laboratory Chronicle

Lab ID: **480-22692-5** **Client ID:** **MR-GW-ISS-DP-12-21-25-T**

Sample Date/Time: 07/17/2012 13:45 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-5-A		480-73125	480-73014	07/19/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22692-A-5-A		480-73125	480-73014	07/19/2012 15:33	1	TAL BUF	JRK

Lab ID: **480-22692-5** **Client ID:** **MR-GW-ISS-DP-12-21-25-T**

Sample Date/Time: 07/17/2012 13:45 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-5-B MS		480-73125	480-73014	07/19/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22692-A-5-B MS		480-73125	480-73014	07/19/2012 15:36	1	TAL BUF	JRK

Lab ID: **480-22692-5** **Client ID:** **MR-GW-ISS-DP-12-21-25-T**

Sample Date/Time: 07/17/2012 13:45 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-5-C MSD		480-73125	480-73014	07/19/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22692-A-5-C MSD		480-73125	480-73014	07/19/2012 15:38	1	TAL BUF	JRK

Lab ID: **480-22692-5 SD** **Client ID:** **MR-GW-ISS-DP-12-21-25-T**

Sample Date/Time: 07/17/2012 13:45 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-5-A SD ^5		480-73125	480-73014	07/19/2012 08:40	5	TAL BUF	JRK
A:7470A	480-22692-A-5-A SD ^5		480-73125	480-73014	07/19/2012 15:35	5	TAL BUF	JRK

Lab ID: **480-22692-6** **Client ID:** **MR-GW-ISS-DP-12-21-25-D**

Sample Date/Time: 07/17/2012 13:45 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-6-A		480-73131	480-73001	07/19/2012 08:00	1	TAL BUF	JRK
A:7470A	480-22692-A-6-A		480-73131	480-73001	07/19/2012 16:22	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22646-1

Laboratory Chronicle

Lab ID: **480-22692-6** **Client ID:** **MR-GW-ISS-DP-12-21-25-D**

Sample Date/Time: 07/17/2012 13:45 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-6-B MS		480-73131	480-73001	07/19/2012 08:00	1	TAL BUF	JRK
A:7470A	480-22692-A-6-B MS		480-73131	480-73001	07/19/2012 16:26	1	TAL BUF	JRK

Lab ID: **480-22692-6** **Client ID:** **MR-GW-ISS-DP-12-21-25-D**

Sample Date/Time: 07/17/2012 13:45 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-6-C MSD		480-73131	480-73001	07/19/2012 08:00	1	TAL BUF	JRK
A:7470A	480-22692-A-6-C MSD		480-73131	480-73001	07/19/2012 16:28	1	TAL BUF	JRK

Lab ID: **480-22692-6 SD** **Client ID:** **MR-GW-ISS-DP-12-21-25-D**

Sample Date/Time: 07/17/2012 13:45 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-6-A SD ^5		480-73131	480-73001	07/19/2012 08:00	5	TAL BUF	JRK
A:7470A	480-22692-A-6-A SD ^5		480-73131	480-73001	07/19/2012 16:23	5	TAL BUF	JRK

Lab ID: **480-22692-7** **Client ID:** **MR-GW-ISS-DP-12-11-15-T**

Sample Date/Time: 07/17/2012 14:15 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-7-A ^10		480-73125	480-73014	07/19/2012 08:40	10	TAL BUF	JRK
A:7470A	480-22692-A-7-A ^10		480-73125	480-73014	07/19/2012 16:23	10	TAL BUF	JRK

Lab ID: **480-22692-8** **Client ID:** **MR-GW-ISS-DP-12-11-15-D**

Sample Date/Time: 07/17/2012 14:15 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-8-A		480-73131	480-73001	07/19/2012 08:00	1	TAL BUF	JRK
A:7470A	480-22692-A-8-A		480-73131	480-73001	07/19/2012 16:30	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22646-1

Laboratory Chronicle

Lab ID: 480-22692-9 **Client ID:** MR-GW-ISS-DP-12-31-35-T

Sample Date/Time: 07/17/2012 15:35 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-9-A		480-73125	480-73014	07/19/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22692-A-9-A		480-73125	480-73014	07/19/2012 15:41	1	TAL BUF	JRK

Lab ID: 480-22692-10 **Client ID:** MR-GW-ISS-DP-12-31-35-D

Sample Date/Time: 07/17/2012 15:35 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-10-A		480-73131	480-73001	07/19/2012 08:00	1	TAL BUF	JRK
A:7470A	480-22692-A-10-A		480-73131	480-73001	07/19/2012 16:32	1	TAL BUF	JRK

Lab ID: 480-22692-11 **Client ID:** MR-GW-ISS-DP-12-41-45-T

Sample Date/Time: 07/17/2012 15:55 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-11-A		480-73125	480-73014	07/19/2012 08:40	1	TAL BUF	JRK
A:7470A	480-22692-A-11-A		480-73125	480-73014	07/19/2012 15:47	1	TAL BUF	JRK

Lab ID: 480-22692-12 **Client ID:** MR-GW-ISS-DP-12-41-45-D

Sample Date/Time: 07/17/2012 15:55 Received Date/Time: 07/18/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22692-A-12-A		480-73131	480-73001	07/19/2012 08:00	1	TAL BUF	JRK
A:7470A	480-22692-A-12-A		480-73131	480-73001	07/19/2012 16:37	1	TAL BUF	JRK

Lab ID: 480-22783-1 **Client ID:** MR-GW-ISS-DP-12-51-55-T

Sample Date/Time: 07/18/2012 08:30 Received Date/Time: 07/19/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22783-A-1-A		480-73265	480-73185	07/20/2012 09:00	1	TAL BUF	JRK
A:7470A	480-22783-A-1-A		480-73265	480-73185	07/20/2012 13:03	1	TAL BUF	JRK

Lab ID: 480-22783-2 **Client ID:** MR-GW-ISS-DP-12-51-55-D

Sample Date/Time: 07/18/2012 08:30 Received Date/Time: 07/19/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-22783-A-2-A		480-73294	480-73212	07/20/2012 09:10	1	TAL BUF	JRK
A:7470A	480-22783-A-2-A		480-73294	480-73212	07/20/2012 15:38	1	TAL BUF	JRK

Client: Brown and Caldwell

Job Number: 480-22646-1

Laboratory Chronicle

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	MB 480-72057/29-B		480-72936	480-72866	07/18/2012 09:30	1	TAL BUF	JRK
A:7470A	MB 480-72057/29-B		480-72936	480-72866	07/18/2012 15:41	1	TAL BUF	JRK
P:7470A	MB 480-72864/1-A		480-72937	480-72864	07/18/2012 09:20	1	TAL BUF	JRK
A:7470A	MB 480-72864/1-A		480-72937	480-72864	07/18/2012 16:25	1	TAL BUF	JRK
P:7470A	MB 480-73014/1-A		480-73125	480-73014	07/19/2012 08:40	1	TAL BUF	JRK
A:7470A	MB 480-73014/1-A		480-73125	480-73014	07/19/2012 15:26	1	TAL BUF	JRK
P:7470A	MB 480-73002/1-B		480-73131	480-73001	07/19/2012 08:00	1	TAL BUF	JRK
A:7470A	MB 480-73002/1-B		480-73131	480-73001	07/19/2012 16:15	1	TAL BUF	JRK
P:7470A	MB 480-73185/1-A		480-73265	480-73185	07/20/2012 09:00	1	TAL BUF	JRK
A:7470A	MB 480-73185/1-A		480-73265	480-73185	07/20/2012 12:34	1	TAL BUF	JRK
P:7470A	MB 480-73002/11-B		480-73294	480-73212	07/20/2012 09:10	1	TAL BUF	JRK
A:7470A	MB 480-73002/11-B		480-73294	480-73212	07/20/2012 15:34	1	TAL BUF	JRK

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LCS 480-72057/30-B		480-72936	480-72866	07/18/2012 09:30	1	TAL BUF	JRK
A:7470A	LCS 480-72057/30-B		480-72936	480-72866	07/18/2012 15:42	1	TAL BUF	JRK
P:7470A	LCS 480-72864/2-A		480-72937	480-72864	07/18/2012 09:20	1	TAL BUF	JRK
A:7470A	LCS 480-72864/2-A		480-72937	480-72864	07/18/2012 16:26	1	TAL BUF	JRK
P:7470A	LCS 480-73014/2-A		480-73125	480-73014	07/19/2012 08:40	1	TAL BUF	JRK
A:7470A	LCS 480-73014/2-A		480-73125	480-73014	07/19/2012 15:28	1	TAL BUF	JRK
P:7470A	LCS 480-73002/2-B		480-73131	480-73001	07/19/2012 08:00	1	TAL BUF	JRK
A:7470A	LCS 480-73002/2-B		480-73131	480-73001	07/19/2012 16:17	1	TAL BUF	JRK
P:7470A	LCS 480-73185/2-A		480-73265	480-73185	07/20/2012 09:00	1	TAL BUF	JRK
A:7470A	LCS 480-73185/2-A		480-73265	480-73185	07/20/2012 12:36	1	TAL BUF	JRK
P:7470A	LCS 480-73002/12-B		480-73294	480-73212	07/20/2012 09:10	1	TAL BUF	JRK
A:7470A	LCS 480-73002/12-B		480-73294	480-73212	07/20/2012 15:36	1	TAL BUF	JRK

Lab References:

TAL BUF = TestAmerica Buffalo

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22646-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-GW-ISS-DP-15-22-26-T	480-22646-1
MR-GW-ISS-DP-15-22-26-D	480-22646-2
MR-GW-ISS-DP-15-12-16-T	480-22646-3
MR-GW-ISS-DP-15-12-16-D	480-22646-4
MR-GW-ISS-DP-15-32-36-T	480-22646-5
MR-GW-ISS-DP-15-32-36-D	480-22646-6
MR-GW-ISS-DP-15-42-46-T	480-22646-7
MR-GW-ISS-DP-15-42-46-D	480-22646-8
MR-GW-ISS-DP-15-52-56-T	480-22692-1
MR-GW-ISS-DP-15-52-56-D	480-22692-2
MR-GW-ISS-DP-15-62-66-T	480-22692-3
MR-GW-ISS-DP-15-62-66-D	480-22692-4
MR-GW-ISS-DP-12-21-25-T	480-22692-5
MR-GW-ISS-DP-12-21-25-D	480-22692-6
MR-GW-ISS-DP-12-11-15-T	480-22692-7
MR-GW-ISS-DP-12-11-15-D	480-22692-8
MR-GW-ISS-DP-12-31-35-T	480-22692-9
MR-GW-ISS-DP-12-31-35-D	480-22692-10
MR-GW-ISS-DP-12-41-45-T	480-22692-11
MR-GW-ISS-DP-12-41-45-D	480-22692-12
MR-GW-ISS-DP-12-51-55-T	480-22783-1
MR-GW-ISS-DP-12-51-55-D	480-22783-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-15-22-26-T
Lab Sample ID: 480-22646-1
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/16/2012 11:30
Reporting Basis: WET
Date Received: 07/17/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	1.1	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-15-22-26-D
Lab Sample ID: 480-22646-2
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/16/2012 11:30
Reporting Basis: WET
Date Received: 07/17/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-15-12-16-T
Lab Sample ID: 480-22646-3
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/16/2012 11:40
Reporting Basis: WET
Date Received: 07/17/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	8.1	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-15-12-16-D
Lab Sample ID: 480-22646-4
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/16/2012 11:40
Reporting Basis: WET
Date Received: 07/17/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	1.7	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-15-32-36-T

Lab Sample ID: 480-22646-5

Lab Name: TestAmerica Buffalo

Job No.: 480-22646-1

SDG ID.:

Matrix: Water

Date Sampled: 07/16/2012 13:25

Reporting Basis: WET

Date Received: 07/17/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-15-32-36-D
Lab Sample ID: 480-22646-6
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/16/2012 13:25
Reporting Basis: WET
Date Received: 07/17/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-15-42-46-T
Lab Sample ID: 480-22646-7
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/16/2012 16:05
Reporting Basis: WET
Date Received: 07/17/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-15-42-46-D
Lab Sample ID: 480-22646-8
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/16/2012 16:05
Reporting Basis: WET
Date Received: 07/17/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-15-52-56-T
Lab Sample ID: 480-22692-1
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/17/2012 08:55
Reporting Basis: WET
Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-15-52-56-D
Lab Sample ID: 480-22692-2
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/17/2012 08:55
Reporting Basis: WET
Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-15-62-66-T
Lab Sample ID: 480-22692-3
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/17/2012 10:40
Reporting Basis: WET
Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.91	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-15-62-66-D
Lab Sample ID: 480-22692-4
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/17/2012 10:40
Reporting Basis: WET
Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-12-21-25-T
Lab Sample ID: 480-22692-5
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/17/2012 13:45
Reporting Basis: WET
Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.68	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-12-21-25-D
Lab Sample ID: 480-22692-6
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/17/2012 13:45
Reporting Basis: WET
Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-12-11-15-T
Lab Sample ID: 480-22692-7
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/17/2012 14:15
Reporting Basis: WET
Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	67.2	2.0	1.2	ug/L			10	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-12-11-15-D
Lab Sample ID: 480-22692-8
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/17/2012 14:15
Reporting Basis: WET
Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	1.6	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-12-31-35-T

Lab Sample ID: 480-22692-9

Lab Name: TestAmerica Buffalo

Job No.: 480-22646-1

SDG ID.:

Matrix: Water

Date Sampled: 07/17/2012 15:35

Reporting Basis: WET

Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-12-31-35-D
Lab Sample ID: 480-22692-10
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/17/2012 15:35
Reporting Basis: WET
Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-12-41-45-T

Lab Sample ID: 480-22692-11

Lab Name: TestAmerica Buffalo

Job No.: 480-22646-1

SDG ID.:

Matrix: Water

Date Sampled: 07/17/2012 15:55

Reporting Basis: WET

Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	0.46	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-12-41-45-D
Lab Sample ID: 480-22692-12
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/17/2012 15:55
Reporting Basis: WET
Date Received: 07/18/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-GW-ISS-DP-12-51-55-T

Lab Sample ID: 480-22783-1

Lab Name: TestAmerica Buffalo

Job No.: 480-22646-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2012 08:30

Reporting Basis: WET

Date Received: 07/19/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	ND	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MR-GW-ISS-DP-12-51-55-D
Lab Sample ID: 480-22783-2
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG ID.:
Matrix: Water
Date Sampled: 07/18/2012 08:30
Reporting Basis: WET
Date Received: 07/19/2012 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury, Dissolved	ND	0.20	0.12	ug/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00142 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00142

Analyte	ICV 480-73125/1 07/19/2012 15:18				CCV 480-73125/4 07/19/2012 15:23				CCV 480-73125/16 07/19/2012 15:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00299		0.00300	100	0.00209		0.00200	105	0.00206		0.00200	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00142 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00142

Analyte	CCV 480-73125/28 07/19/2012 16:08				CCV 480-73125/39 07/19/2012 16:29							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00201		0.00200	101	0.00203		0.00200	102				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00143 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00143

Analyte	ICV 480-73265/1 07/20/2012 12:26				CCV 480-73265/4 07/20/2012 12:31				CCV 480-73265/16 07/20/2012 12:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00288		0.00300	96	0.00195		0.00200	98	0.00185		0.00200	93

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00143 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00143

Analyte	CCV 480-73265/28 07/20/2012 13:13											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00185		0.00200	93								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00141 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00141

Analyte	ICV 480-72936/1 07/18/2012 15:28				CCV 480-72936/4 07/18/2012 15:37				CCV 480-72936/16 07/18/2012 16:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00302		0.00300	101	0.00205		0.00200	103	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00141 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00141

Analyte	ICV 480-72937/1 07/18/2012 16:16				CCV 480-72937/4 07/18/2012 16:22				CCV 480-72937/16 07/18/2012 16:42			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00305		0.00300	102	0.00205		0.00200	103	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00141 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00141

Analyte	CCV 480-72937/28 07/18/2012 17:04											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00203		0.00200	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00142 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00142

Analyte	ICV 480-73131/1 07/19/2012 16:05				CCV 480-73131/4 07/19/2012 16:11				CCV 480-73131/16 07/19/2012 16:33			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00295		0.00300	98	0.00205		0.00200	103	0.00206		0.00200	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00142 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00142

Analyte	CCV 480-73131/25 07/19/2012 16:49											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00205		0.00200	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00143 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00143

Analyte	ICV 480-73294/1 07/20/2012 14:40				CCV 480-73294/6 07/20/2012 15:27				CCV 480-73294/16 07/20/2012 15:48			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00296		0.00300	99	0.00201		0.00200	101	0.00201		0.00200	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

ICV Source: MEH_HG2_WKG_00143 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00143

Analyte	CCV 480-73294/22 07/20/2012 15:58											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Dissolved	0.00200		0.00200	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN2

Lab Sample ID: CRA 480-73125/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00142

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		69	50-150

Lab Sample ID: CRA 480-73265/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00143

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		72	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN3

Lab Sample ID: CRA 480-72936/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00141

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Dissolved	0.000200	ND		97	50-150

Lab Sample ID: CRA 480-72937/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00141

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	0.000202		101	50-150

Lab Sample ID: CRA 480-72937/32 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00141

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		97	50-150

Lab Sample ID: CRA 480-73131/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00142

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Dissolved	0.000200	ND		84	50-150

Lab Sample ID: CRA 480-73294/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00143

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Dissolved	0.000200	ND		90	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-73125/2 07/19/2012 15:20		CCB 480-73125/5 07/19/2012 15:25		CCB 480-73125/17 07/19/2012 15:45		CCB 480-73125/29 07/19/2012 16:10	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-73125/40 07/19/2012 16:31							
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-73265/2 07/20/2012 12:27		CCB 480-73265/5 07/20/2012 12:32		CCB 480-73265/17 07/20/2012 12:53		CCB 480-73265/29 07/20/2012 13:15	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-72936/2 07/18/2012 15:29		CCB 480-72936/5 07/18/2012 15:39		CCB 480-72936/17 07/18/2012 16:02			
		Found	C	Found	C	Found	C	Found	C
Mercury, Dissolved	0.00020	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-72937/2 07/18/2012 16:18		CCB 480-72937/5 07/18/2012 16:23		CCB 480-72937/17 07/18/2012 16:43		CCB 480-72937/29 07/18/2012 17:06	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-73131/2 07/19/2012 16:07		CCB 480-73131/5 07/19/2012 16:12		CCB 480-73131/17 07/19/2012 16:35		CCB 480-73131/26 07/19/2012 16:52	
		Found	C	Found	C	Found	C	Found	C
Mercury, Dissolved	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-73294/2 07/20/2012 14:42		CCB 480-73294/7 07/20/2012 15:28		CCB 480-73294/17 07/20/2012 15:50		CCB 480-73294/23 07/20/2012 16:00	
		Found	C	Found	C	Found	C	Found	C
Mercury, Dissolved	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-72057/29-B

Instrument Code: LEEMAN3 Batch No.: 72936

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Dissolved	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-72864/1-A

Instrument Code: LEEMAN3 Batch No.: 72937

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-73014/1-A

Instrument Code: LEEMAN2 Batch No.: 73125

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-73002/1-B

Instrument Code: LEEMAN3 Batch No.: 73131

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Dissolved	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-73185/1-A

Instrument Code: LEEMAN2 Batch No.: 73265

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-73002/11-B

Instrument Code: LEEMAN3 Batch No.: 73294

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Dissolved	ND			7470A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MR-GW-ISS-DP-12-21-25-T MS
Lab ID: 480-22692-5 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Total	7.32		0.68		6.67	100	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MR-GW-ISS-DP-12-21-25-D MS
Lab ID: 480-22692-6 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury, Dissolved	6.83		ND		6.67	102	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MR-GW-ISS-DP-12-21-25-T MSD Lab ID: 480-22692-5 MSD

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Total	7.25		6.67	99	75-125	1	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MR-GW-ISS-DP-12-21-25-D MSD
Lab ID: 480-22692-6 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-22646-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury, Dissolved	6.75		6.67	101	75-125	1	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-72057/30-B

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00141

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Dissolved	6.67	6.58		99	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-72864/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00141

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.75		101	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-73014/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00142

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.63		99	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-73002/2-B

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00142

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Dissolved	6.67	6.33		95	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-73185/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00143

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.48		97	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-73002/12-B

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00143

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Dissolved	6.67	5.93		89	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-22692-5

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-22646-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Total	0.68		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 480-22692-6

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-22646-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury, Dissolved	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22646-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22646-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22646-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-22646-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-22646-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury, Dissolved	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-22646-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Dissolved	253.7	0.0002	0.00012

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-22646-1

SDG No.:

Instrument ID: LEEMAN2 Date: 03/20/2012 10:04

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Total	10	10	7470A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-22646-1

SDG No.:

Instrument ID: LEEMAN3 Date: 03/20/2012 10:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Dissolved	10	10	7470A
Mercury, Total	10	10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-72864/1-A	07/18/2012 09:20	72864		30	50
LCS 480-72864/2-A	07/18/2012 09:20	72864		30	50
480-22646-1	07/18/2012 09:20	72864		30	50
480-22646-3	07/18/2012 09:20	72864		30	50
480-22646-5	07/18/2012 09:20	72864		30	50
480-22646-7	07/18/2012 09:20	72864		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-72057/29-B	07/18/2012 09:30	72866		30	50
LCS 480-72057/30-B	07/18/2012 09:30	72866		30	50
480-22646-2	07/18/2012 09:30	72866		30	50
480-22646-4	07/18/2012 09:30	72866		30	50
480-22646-6	07/18/2012 09:30	72866		30	50
480-22646-8	07/18/2012 09:30	72866		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-73002/1-B	07/19/2012 08:00	73001		30	50
LCS 480-73002/2-B	07/19/2012 08:00	73001		30	50
480-22692-2	07/19/2012 08:00	73001		30	50
480-22692-4	07/19/2012 08:00	73001		30	50
480-22692-6	07/19/2012 08:00	73001		30	50
480-22692-6 MS	07/19/2012 08:00	73001		30	50
480-22692-6 MSD	07/19/2012 08:00	73001		30	50
480-22692-8	07/19/2012 08:00	73001		30	50
480-22692-10	07/19/2012 08:00	73001		30	50
480-22692-12	07/19/2012 08:00	73001		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-73014/1-A	07/19/2012 08:40	73014		30	50
LCS 480-73014/2-A	07/19/2012 08:40	73014		30	50
480-22692-1	07/19/2012 08:40	73014		30	50
480-22692-3	07/19/2012 08:40	73014		30	50
480-22692-5	07/19/2012 08:40	73014		30	50
480-22692-5 MS	07/19/2012 08:40	73014		30	50
480-22692-5 MSD	07/19/2012 08:40	73014		30	50
480-22692-7	07/19/2012 08:40	73014		30	50
480-22692-9	07/19/2012 08:40	73014		30	50
480-22692-11	07/19/2012 08:40	73014		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-73185/1-A	07/20/2012 09:00	73185		30	50
LCS 480-73185/2-A	07/20/2012 09:00	73185		30	50
480-22783-1	07/20/2012 09:00	73185		30	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-73002/11-B	07/20/2012 09:10	73212		30	50
LCS 480-73002/12-B	07/20/2012 09:10	73212		30	50
480-22783-2	07/20/2012 09:10	73212		30	50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/19/2012 15:18 End Date: 07/19/2012 16:31

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-73125/1	1		15:18	X																			
ICB 480-73125/2	1		15:20	X																			
CRA 480-73125/3	1		15:21	X																			
CCV 480-73125/4	1		15:23	X																			
CCB 480-73125/5	1		15:25	X																			
MB 480-73014/1-A	1	T	15:26	X																			
LCS 480-73014/2-A	1	T	15:28	X																			
480-22692-1	1	T	15:30	X																			
480-22692-3	1	T	15:31	X																			
480-22692-5	1	T	15:33	X																			
480-22692-5 SD	5	T	15:35	X																			
480-22692-5 MS	1	T	15:36	X																			
480-22692-5 MSD	1	T	15:38	X																			
ZZZZZZ			15:40																				
480-22692-9	1	T	15:41	X																			
CCV 480-73125/16	1		15:43	X																			
CCB 480-73125/17	1		15:45	X																			
480-22692-11	1	T	15:47	X																			
ZZZZZZ			15:48																				
ZZZZZZ			15:50																				
ZZZZZZ			15:52																				
ZZZZZZ			15:54																				
ZZZZZZ			15:56																				
ZZZZZZ			15:57																				
ZZZZZZ			16:00																				
ZZZZZZ			16:02																				
ZZZZZZ			16:05																				
CCV 480-73125/28	1		16:08	X																			
CCB 480-73125/29	1		16:10	X																			
ZZZZZZ			16:11																				
ZZZZZZ			16:13																				
ZZZZZZ			16:15																				
ZZZZZZ			16:18																				
ZZZZZZ			16:19																				
ZZZZZZ			16:21																				
480-22692-7	10	T	16:23	X																			
ZZZZZZ			16:26																				
CRA 480-73125/38			16:27																				
CCV 480-73125/39	1		16:29	X																			
CCB 480-73125/40	1		16:31	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/19/2012 15:18 End Date: 07/19/2012 16:31

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/20/2012 12:26 End Date: 07/20/2012 13:37

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-73265/1	1		12:26	X																			
ICB 480-73265/2	1		12:27	X																			
CRA 480-73265/3	1		12:29	X																			
CCV 480-73265/4	1		12:31	X																			
CCB 480-73265/5	1		12:32	X																			
MB 480-73185/1-A	1	T	12:34	X																			
LCS 480-73185/2-A	1	T	12:36	X																			
ZZZZZZ			12:38																				
ZZZZZZ			12:39																				
ZZZZZZ			12:42																				
ZZZZZZ			12:43																				
ZZZZZZ			12:45																				
ZZZZZZ			12:47																				
ZZZZZZ			12:48																				
ZZZZZZ			12:50																				
CCV 480-73265/16	1		12:52	X																			
CCB 480-73265/17	1		12:53	X																			
ZZZZZZ			12:55																				
ZZZZZZ			12:58																				
ZZZZZZ			12:59																				
ZZZZZZ			13:01																				
480-22783-1	1	T	13:03	X																			
ZZZZZZ			13:04																				
ZZZZZZ			13:06																				
ZZZZZZ			13:08																				
ZZZZZZ			13:09																				
ZZZZZZ			13:11																				
CCV 480-73265/28	1		13:13	X																			
CCB 480-73265/29	1		13:15	X																			
ZZZZZZ			13:16																				
ZZZZZZ			13:18																				
ZZZZZZ			13:20																				
ZZZZZZ			13:21																				
ZZZZZZ			13:23																				
ZZZZZZ			13:25																				
ZZZZZZ			13:27																				
ZZZZZZ			13:29																				
ZZZZZZ			13:31																				
ZZZZZZ			13:32																				
CCV 480-73265/40			13:35																				
CCB 480-73265/41			13:37																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 07/20/2012 12:26 End Date: 07/20/2012 13:37

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/18/2012 15:28 End Date: 07/18/2012 16:13

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-72936/1	1		15:28	X																			
ICB 480-72936/2	1		15:29	X																			
CRA 480-72936/3	1		15:35	X																			
CCV 480-72936/4	1		15:37	X																			
CCB 480-72936/5	1		15:39	X																			
MB 480-72057/29-B	1	D	15:41	X																			
LCS 480-72057/30-B	1	D	15:42	X																			
480-22646-2	1	D	15:45	X																			
480-22646-4	1	D	15:47	X																			
480-22646-6	1	D	15:49	X																			
480-22646-8	1	D	15:50	X																			
ZZZZZZ			15:52																				
ZZZZZZ			15:54																				
ZZZZZZ			15:55																				
ZZZZZZ			15:58																				
CCV 480-72936/16	1		16:00	X																			
CCB 480-72936/17	1		16:02	X																			
ZZZZZZ			16:04																				
ZZZZZZ			16:07																				
ZZZZZZ			16:08																				
CRA 480-72936/21			16:10																				
CCV 480-72936/22			16:11																				
CCB 480-72936/23			16:13																				

Prep Types

D = Dissolved

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/18/2012 16:16 End Date: 07/18/2012 17:16

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-72937/1	1		16:16	X																			
ICB 480-72937/2	1		16:18	X																			
CRA 480-72937/3	1		16:20	X																			
CCV 480-72937/4	1		16:22	X																			
CCB 480-72937/5	1		16:23	X																			
MB 480-72864/1-A	1	T	16:25	X																			
LCS 480-72864/2-A	1	T	16:26	X																			
ZZZZZZ			16:29																				
ZZZZZZ			16:30																				
ZZZZZZ			16:32																				
ZZZZZZ			16:34																				
ZZZZZZ			16:35																				
ZZZZZZ			16:37																				
ZZZZZZ			16:38																				
480-22646-1	1	T	16:40	X																			
CCV 480-72937/16	1		16:42	X																			
CCB 480-72937/17	1		16:43	X																			
480-22646-3	1	T	16:45	X																			
480-22646-5	1	T	16:46	X																			
480-22646-7	1	T	16:49	X																			
ZZZZZZ			16:50																				
ZZZZZZ			16:52																				
ZZZZZZ			16:54																				
ZZZZZZ			16:56																				
ZZZZZZ			16:58																				
ZZZZZZ			17:00																				
ZZZZZZ			17:03																				
CCV 480-72937/28	1		17:04	X																			
CCB 480-72937/29	1		17:06	X																			
ZZZZZZ			17:08																				
ZZZZZZ			17:10																				
CRA 480-72937/32	1		17:12	X																			
CCV 480-72937/33			17:14																				
CCB 480-72937/34			17:16																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/19/2012 16:05 End Date: 07/19/2012 16:52

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-73131/1	1		16:05	X																			
ICB 480-73131/2	1		16:07	X																			
CRA 480-73131/3	1		16:09	X																			
CCV 480-73131/4	1		16:11	X																			
CCB 480-73131/5	1		16:12	X																			
MB 480-73002/1-B	1	D	16:15	X																			
LCS 480-73002/2-B	1	D	16:17	X																			
480-22692-2	1	D	16:18	X																			
480-22692-4	1	D	16:20	X																			
480-22692-6	1	D	16:22	X																			
480-22692-6 SD	5	D	16:23	X																			
480-22692-6 MS	1	D	16:26	X																			
480-22692-6 MSD	1	D	16:28	X																			
480-22692-8	1	D	16:30	X																			
480-22692-10	1	D	16:32	X																			
CCV 480-73131/16	1		16:33	X																			
CCB 480-73131/17	1		16:35	X																			
480-22692-12	1	D	16:37	X																			
ZZZZZZ			16:38																				
ZZZZZZ			16:40																				
ZZZZZZ			16:42																				
ZZZZZZ			16:44																				
ZZZZZZ			16:46																				
CRA 480-73131/24			16:47																				
CCV 480-73131/25	1		16:49	X																			
CCB 480-73131/26	1		16:52	X																			

Prep Types
D = Dissolved

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 07/20/2012 14:40 End Date: 07/20/2012 16:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-73294/1	1		14:40	X																			
ICB 480-73294/2	1		14:42	X																			
CRA 480-73294/3	1		14:44	X																			
CCV 480-73294/4			14:45																				
CCB 480-73294/5			14:47																				
CCV 480-73294/6	1		15:27	X																			
CCB 480-73294/7	1		15:28	X																			
MB 480-73002/11-B	1	D	15:34	X																			
LCS 480-73002/12-B	1	D	15:36	X																			
480-22783-2	1	D	15:38	X																			
ZZZZZZ			15:39																				
ZZZZZZ			15:41																				
ZZZZZZ			15:43																				
ZZZZZZ			15:45																				
ZZZZZZ			15:46																				
CCV 480-73294/16	1		15:48	X																			
CCB 480-73294/17	1		15:50	X																			
ZZZZZZ			15:52																				
ZZZZZZ			15:53																				
ZZZZZZ			15:55																				
CRA 480-73294/21			15:57																				
CCV 480-73294/22	1		15:58	X																			
CCB 480-73294/23	1		16:00	X																			

Prep Types

D = Dissolved

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧

Protocol hgppb

Dataset/Proto H07192W4/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.05323e-5

C -7.34821e-2

rho .999853

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs.
950531

Accepted

New

Include S1 Rep 1☑ 2☑ 3☑ 4☐ 5☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.059	-.059	1389	817	1087	768	2314
02	.20000	.161	-.039	22292	2.16%	22794	21836	22246
03	1.0000	1.00	.001	102032	0.67%	102707	102050	101338
04	2.0000	2.06	.062	202766	0.32%	202580	203486	202231
05	5.0000	5.10	.097	490873	0.02%	490778	491004	490836
06	10.000	9.94	-.062	950531	0.48%	953355	952960	945280

Ready CAP NUM

L2

7/19/12

73024

Cal: H07192C4

Run: H07192W4

Batches: 73014

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

73024

*** Check Standard: 2 Ck2ICV Seq: 1 15:18:03 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.8	2.99	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 15:20:02 19 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.051	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 15:21:38 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		68.9	.138	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 15:23:29 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.	2.09	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 15:25:06 19 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.058	.200	ppb	.000

*** Sample ID: Seq: 6 15:26:41 19 Jul 12 HG
mb 480-73014/1-a

Hg	-.054	ppb	.000	-.054

*** Sample ID: Seq: 7 15:28:28 19 Jul 12 HG
lcs 480-73014/2-a

Hg	3.98	ppb	.000	3.98

*** Sample ID: Seq: 8 15:30:04 19 Jul 12 HG
480-22692-a-1-a

Hg	.079	ppb	.000	.079

*** Sample ID: Seq: 9 15:31:51 19 Jul 12 HG
480-22692-a-3-a

Hg	.543	ppb	.000	.543

*** Sample ID: Seq: 10 15:33:28 19 Jul 12 HG
480-22692-a-5-a

Hg	.408	ppb	.000	.408

*** Sample ID: Seq: 11 15:35:06 19 Jul 12 HG
480-22692-a-5-a SD@5

Hg	.040	ppb	.000	.040

*** Sample ID: Seq: 12 15:36:57 19 Jul 12 HG
480-22692-a-5-b ms

Hg	4.39	ppb	.000	4.39

*** Sample ID: Seq: 13 15:38:34 19 Jul 12 HG
480-22692-a-5-c msd

Hg	4.35	ppb	.000	4.35

*** Sample ID: Seq: 14 15:40:11 19 Jul 12 HG
480-22692-a-7-a

RR1:10

Hg	34.0 H	ppb	.000	34.0

*** Sample ID: Seq: 15 15:41:57 19 Jul 12 HG
480-22692-a-9-a

Hg	-.001	ppb	.000	-.001

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 15:43:35 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	2.06	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 15:45:11 19 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.065	.200	ppb	.000

*** Sample ID: Seq: 18 15:47:02 19 Jul 12 HG
480-22692-a-11-a

Hg	.273	ppb	.000	.273

*** Sample ID: Seq: 19 15:48:41 19 Jul 12 HG
480-22699-s-1-b

Hg	-.055	ppb	.000	-.055

*** Sample ID: Seq: 20 15:50:38 19 Jul 12 HG
480-22711-s-1-b

Hg	-.049	ppb	.000	-.049

*** Sample ID: Seq: 21 15:52:36 19 Jul 12 HG
480-22722-c-1-b

Hg	-.061	ppb	.000	-.061

*** Sample ID: Seq: 22 15:54:25 19 Jul 12 HG
480-22722-d-2-b

Hg	-.047	ppb	.000	-.047

*** Sample ID: Seq: 23 15:56:12 19 Jul 12 HG
480-22713-f-1-b

Hg	-.039	ppb	.000	-.039

*** Sample ID: Seq: 24 15:57:59 19 Jul 12 HG
480-22715-g-1-b

Hg	-.052	ppb	.000	-.052

*** Sample ID: Seq: 25 16:00:51 19 Jul 12 HG
480-22700-g-1-a

Hg	-.053	ppb	.000	-.053

*** Sample ID: Seq: 26 16:02:38 19 Jul 12 HG
480-22730-b-2-a

Hg	.019	ppb	.000	.019

*** Sample ID: Seq: 27 16:05:09 19 Jul 12 HG
480-22732-d-10-a

Hg	-.059	ppb	.000	-.059

*** Check Standard: 3 Ck3CCV Seq: 28 16:08:01 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.01	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 16:10:00 19 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.057	.200	ppb	.000

*** Sample ID: Seq: 30 16:11:48 19 Jul 12 HG
480-22732-d-11-a

Hg	-.046	ppb	.000	-.046

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 16:13:26 19 Jul 12 HG
480-22731-b-1-a

Hg	.232	ppb	.000	.232

*** Sample ID: Seq: 32 16:15:38 19 Jul 12 HG
480-22731-b-2-a

Hg	.251	ppb	.000	.251

*** Sample ID: Seq: 33 16:18:03 19 Jul 12 HG
480-22731-b-3-a

Hg	.232	ppb	.000	.232

*** Sample ID: Seq: 34 16:19:39 19 Jul 12 HG
480-22690-a-2-a

PI.

Hg	14.7 H	ppb	.000	14.7

*** Sample ID: Seq: 35 16:21:30 19 Jul 12 HG
480-22690-a-2-a@10

Hg	1.63	ppb	.000	1.63

*** Sample ID: Seq: 36 16:23:09 19 Jul 12 HG
480-22692-a-7-a@10

Hg	4.03	ppb	.000	4.03

*** Sample ID: Seq: 37 16:26:01 19 Jul 12 HG
480-22690-a-2-a@5

Hg	3.20	ppb	.000	3.20

*** Check Standard: 4 Ck4CRA Seq: 38 16:27:39 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		76.0	.152	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 39 16:29:27 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 40 16:31:03 19 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.060	.200	ppb	.000

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧

Protocol hgppb

Dataset/Proto H07202W2/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.14966e-5

C -7.54152e-2

rho .999748

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs.
868872

Accepted

New

Include S1 Rep 1☑ 2☑ 3☑ 4☐ 5☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.042	-.042	2916	1438	1687	2565	4496
02	.20000	.146	-.054	19286	1.53%	18987	19294	19576
03	1.0000	.981	-.019	91916	3.18%	89153	94972	91623
04	2.0000	2.05	.049	184816	1.28%	187030	182313	185106
05	5.0000	5.15	.151	454631	0.53%	451882	455672	456341
06	10.000	9.91	-.086	868872	0.4%	871124	870574	864919

Ready CAP NUM

L2
7/20/12

73205

Cal: H07202C1

Run: H07202W2

Batches: 73185
73186

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

73205

*** Check Standard: 2 Ck2ICV Seq: 2 12:26:03 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.9	2.88	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 3 12:27:39 20 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.077	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 4 12:29:15 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		72.2	.144	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 5 12:31:05 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.3	1.95	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 6 12:32:54 20 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.050	.200	ppb	.000

*** Sample ID: Seq: 7 12:34:52 20 Jul 12 HG
MB 480-73185/1-A

Hg	-.118	ppb	.000	-.118

*** Sample ID: Seq: 8 12:36:27 20 Jul 12 HG
LCS 480-73185/2-A

Hg	3.89	ppb	.000	3.89

*** Sample ID: Seq: 9 12:38:01 20 Jul 12 HG
480-22733-E-1-D

Hg	-.076	ppb	.000	-.076

*** Sample ID: Seq: 10 12:39:47 20 Jul 12 HG
480-22733-E-1-D SD@5

Hg	-.055	ppb	.000	-.055

*** Sample ID: Seq: 11 12:42:03 20 Jul 12 HG
480-22733-E-1-E MS

Hg	3.70	ppb	.000	3.70

*** Sample ID: Seq: 12 12:43:40 20 Jul 12 HG
480-22733-E-1-F MSD

Hg	3.65	ppb	.000	3.65

*** Sample ID: Seq: 13 12:45:19 20 Jul 12 HG
480-22733-E-2-B

Hg	-.067	ppb	.000	-.067

*** Sample ID: Seq: 14 12:47:05 20 Jul 12 HG
480-22733-E-3-B

Hg	-.067	ppb	.000	-.067

*** Sample ID: Seq: 15 12:48:45 20 Jul 12 HG
480-22769-G-1-B

RE Run

Hg	-.029	ppb	.000	-.029

*** Sample ID: Seq: 16 12:50:32 20 Jul 12 HG
480-22769-G-2-B

Hg	-.061	ppb	.000	-.061

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 17 12:52:17 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.7	1.85	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 18 12:53:55 20 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.056	.200	ppb	.000

*** Sample ID: Seq: 19 12:55:33 20 Jul 12 HG
480-22769-G-3-B

RCLOW Hg -.042 ppb .000 -.042

*** Sample ID: Seq: 20 12:58:01 20 Jul 12 HG
480-22764-A-1-A

Hg -.018 ppb .000 -.018

*** Sample ID: Seq: 21 12:59:51 20 Jul 12 HG
480-22809-A-1-B

Hg -.033 ppb .000 -.033

*** Sample ID: Seq: 22 13:01:26 20 Jul 12 HG
480-22809-A-5-B

Hg -.044 ppb .000 -.044

*** Sample ID: Seq: 23 13:03:14 20 Jul 12 HG
480-22783-A-1-A

Hg -.010 ppb .000 -.010

*** Sample ID: Seq: 24 13:04:50 20 Jul 12 HG
480-22795-E-2-C

Hg -.061 ppb .000 -.061

*** Sample ID: Seq: 25 13:06:26 20 Jul 12 HG
480-22795-E-3-C

Hg -.041 ppb .000 -.041

*** Sample ID: Seq: 26 13:08:16 20 Jul 12 HG
480-22795-E-4-C

Hg -.066 ppb .000 -.066

*** Sample ID: Seq: 27 13:09:55 20 Jul 12 HG
480-22795-E-5-C

Hg .001 ppb .000 .001

*** Sample ID: Seq: 28 13:11:31 20 Jul 12 HG
480-22795-E-6-C

Hg -.059 ppb .000 -.059

*** Check Standard: 3 Ck3CCV Seq: 29 13:13:20 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.3	1.85	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 30 13:15:01 20 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.008	.200	ppb	.000

*** Sample ID: Seq: 31 13:16:41 20 Jul 12 HG
480-22795-E-7-C

Hg -.058 ppb .000 -.058

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 32 13:18:19 20 Jul 12 HG
480-22795-E-8-C

Hg	-.083	ppb	.000	-.083

*** Sample ID: Seq: 33 13:20:15 20 Jul 12 HG
480-22795-E-9-C

Hg	-.049	ppb	.000	-.049

*** Sample ID: Seq: 34 13:21:53 20 Jul 12 HG
480-22795-E-10-C

Re Run

Hg	-.126	ppb	.000	-.126

*** Sample ID: Seq: 35 13:23:33 20 Jul 12 HG
480-22795-E-11-C

Hg	-.055	ppb	.000	-.055

*** Sample ID: Seq: 36 13:25:52 20 Jul 12 HG
MB 480-73186/1-A

Hg	-.044	ppb	.000	-.044

*** Sample ID: Seq: 37 13:27:28 20 Jul 12 HG
LCS 480-73186/2-A

Hg	3.54	ppb	.000	3.54

*** Sample ID: Seq: 38 13:29:04 20 Jul 12 HG
480-22795-E-12-C

Hg	-.019	ppb	.000	-.019

*** Sample ID: Seq: 39 13:31:00 20 Jul 12 HG
480-22795-E-13-C

Re Run

Hg	-.021	ppb	.000	-.021

*** Sample ID: Seq: 40 13:32:51 20 Jul 12 HG
22795-E-13-C sd@5

Re Run

Hg	-.071	ppb	.000	-.071

*** Check Standard: 3 Ck3CCV Seq: 41 13:35:31 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	L	84.9	1.70	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 42 13:37:17 20 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.055	.200	ppb	.000

WinHgDatabase 4.0

File Utility Help

Protocol hgppb BUSY Dataset/Proto J07192D1/hgppb

Protocol | Line Info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.53607e-5

C -1.78442e-2

rho .999939

Type

Rel. Abs.
654202

Accepted

New

Include S6 Rep

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.010	-.010	538	439	993	118	501
02	.20000	.203	.003	14397	1.29%	14181	14496	14511
03	1.0000	1.03	.031	68272	0.94%	69011	67936	67867
04	2.0000	2.02	.025	132962	0.44%	133607	132824	132453
05	5.0000	4.92	-.080	321445	0.32%	322427	320348	321563

Ready CAP NUM

L3

7/18/12

72871

Cal: J07182C1

Run: J07182D1

Batches: 72866

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

72871

*** Check Standard: 2 Ck2ICV Seq: 1 15:28:09 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	3.02	3.00	ppb	.000

*** Check Standard: 1 Ck1ICB Seq: 2 15:29:44 18 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.026	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 15:31:50 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	H	153.	.306	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 4 15:35:23 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.8	.194	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 5 15:37:29 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.05	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 6 15:39:26 18 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.007	.200	ppb	.000

*** Sample ID: Seq: 7 15:41:02 18 Jul 12 HG
mb 480-72057/29-b

Hg	-.017	ppb	.000	-.017

*** Sample ID: Seq: 8 15:42:48 18 Jul 12 HG
lcs 480-72057/30-b

Hg	3.95	ppb	.000	3.95

*** Sample ID: Seq: 9 15:45:28 18 Jul 12 HG
480-22646-a-2-a

Hg	-.003	ppb	.000	-.003

*** Sample ID: Seq: 10 15:47:28 18 Jul 12 HG
480-22646-a-4-a

Hg	1.02	ppb	.000	1.02

*** Sample ID: Seq: 11 15:49:06 18 Jul 12 HG
480-22646-a-6-a

Hg	-.002	ppb	.000	-.002

*** Sample ID: Seq: 12 15:50:53 18 Jul 12 HG
480-22646-a-8-a

Hg	-.007	ppb	.000	-.007

*** Sample ID: Seq: 13 15:52:29 18 Jul 12 HG
480-22638-e-1-c

Hg	-.007	ppb	.000	-.007

*** Sample ID: Seq: 14 15:54:05 18 Jul 12 HG
480-22638-e-1-c SD@5

Hg	-.003	ppb	.000	-.003

*** Sample ID: Seq: 15 15:55:53 18 Jul 12 HG
480-22638-e-1-d ms

Hg	3.94	ppb	.000	3.94

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 16 15:58:33 18 Jul 12 HG
480-22638-e-1-e msd

Hg	3.83	ppb	.000	3.83

*** Check Standard: 3 Ck3CCV Seq: 17 16:00:19 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 18 16:02:57 18 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.010	.200	ppb	.000

*** Sample ID: Seq: 19 16:04:56 18 Jul 12 HG
480-22638-e-2-c

Hg	-.008	ppb	.000	-.008

*** Sample ID: Seq: 20 16:07:03 18 Jul 12 HG
480-22638-e-3-c

Hg	.006	ppb	.000	.006

*** Sample ID: Seq: 21 16:08:42 18 Jul 12 HG
480-22638-e-4-c

Hg	-.007	ppb	.000	-.007

*** Check Standard: 4 Ck4CRA Seq: 22 16:10:18 18 Jul 12 HG

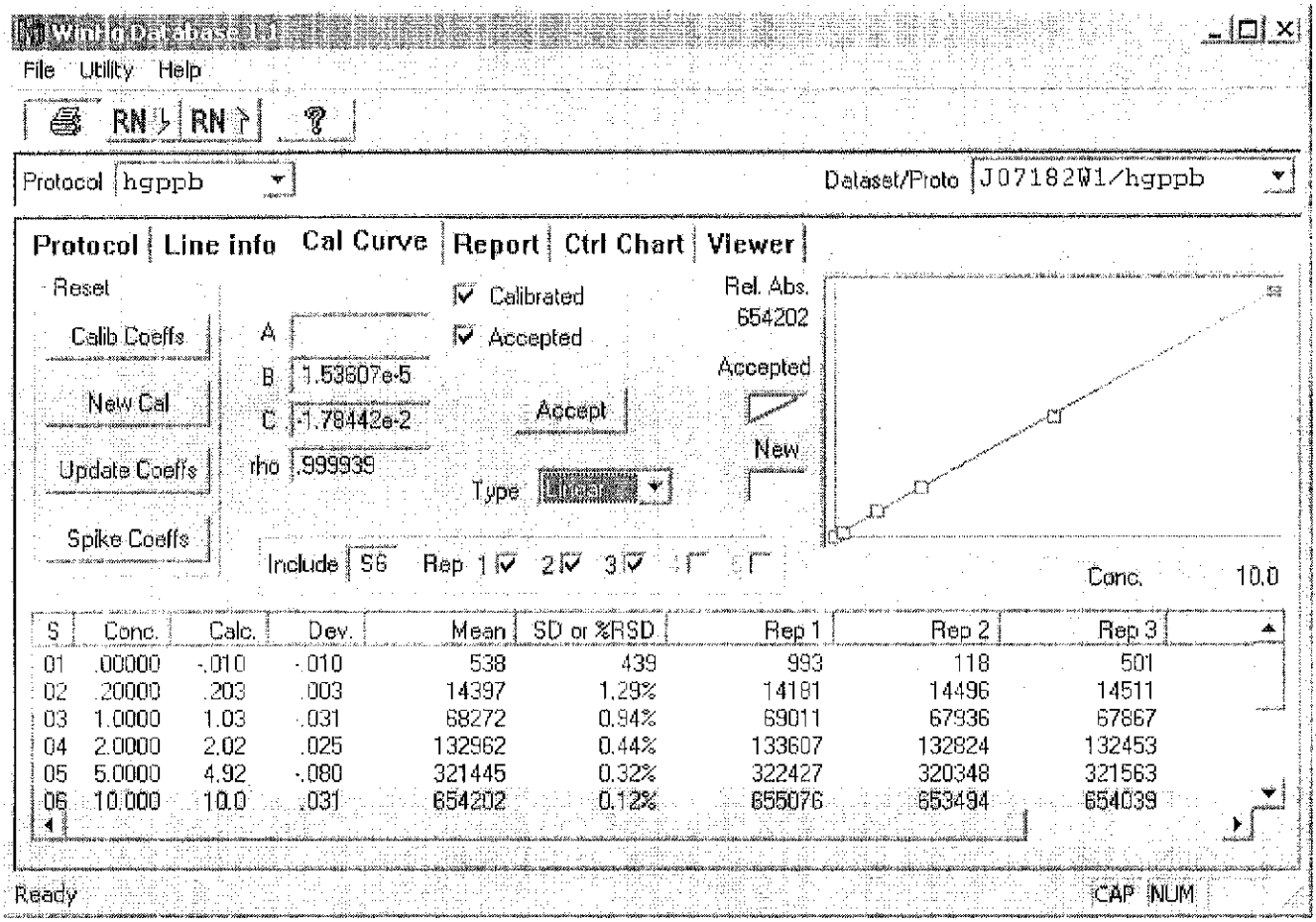
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	.204	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 23 16:11:56 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	2.05	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 24 16:13:41 18 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.001	.200	ppb	.000



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.010	-.010	538	439	993	118	501
02	.20000	.203	.003	14397	1.29%	14181	14496	14511
03	1.0000	1.03	-.031	68272	0.94%	69011	67936	67867
04	2.0000	2.02	.025	132962	0.44%	133607	132824	132453
05	5.0000	4.92	-.080	321445	0.32%	322427	320348	321563
06	10.000	10.0	.031	654202	0.12%	655076	653494	654039

L3
7/18/12

72871

Cal: J07182C1

Run: J07182W1

Batch 5: 72864

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

72871

*** Check Standard: 2 Ck2ICV Seq: 1 16:16:42 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	3.05	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 16:18:18 18 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.019	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 16:20:13 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	.202	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 16:22:09 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.05	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 16:23:46 18 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.008	.200	ppb	.000

*** Sample ID: Seq: 6 16:25:21 18 Jul 12 HG
mb 480-72864/1-a

Hg	-.008	ppb	.000	-.008

*** Sample ID: Seq: 7 16:26:58 18 Jul 12 HG
lcs 480-72864/2-a

Hg	4.05	ppb	.000	4.05

*** Sample ID: Seq: 8 16:29:14 18 Jul 12 HG
480-22687-e-1-a

Hg	-.012	ppb	.000	-.012

*** Sample ID: Seq: 9 16:30:54 18 Jul 12 HG
480-22687-e-1-a SD@5

Hg	-.004	ppb	.000	-.004

*** Sample ID: Seq: 10 16:32:30 18 Jul 12 HG
480-22687-e-1-b ms

Hg	4.07	ppb	.000	4.07

*** Sample ID: Seq: 11 16:34:06 18 Jul 12 HG
480-22687-e-1-c msd

Hg	3.98	ppb	.000	3.98

*** Sample ID: Seq: 12 16:35:42 18 Jul 12 HG
480-22687-e-2-a

Hg	-.019	ppb	.000	-.019

*** Sample ID: Seq: 13 16:37:17 18 Jul 12 HG
480-22687-e-3-a

Hg	-.007	ppb	.000	-.007

*** Sample ID: Seq: 14 16:38:55 18 Jul 12 HG
480-22687-e-4-a

Hg	-.007	ppb	.000	-.007

*** Sample ID: Seq: 15 16:40:31 18 Jul 12 HG
480-22646-a-1-a

Hg	.680	ppb	.000	.680

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 16:42:07 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 16:43:42 18 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.017	.200	ppb	.000

*** Sample ID: Seq: 18 16:45:19 18 Jul 12 HG
480-22646-a-3-a @20 JK 7/16/12

Hg	4.86	ppb	.000	4.86

*** Sample ID: Seq: 19 16:46:59 18 Jul 12 HG
480-22646-a-5-a

Hg	.024	ppb	.000	.024

*** Sample ID: Seq: 20 16:49:06 18 Jul 12 HG
480-22646-a-7-a

Hg	.038	ppb	.000	.038

*** Sample ID: Seq: 21 16:50:46 18 Jul 12 HG
480-22587-e-10-c

Hg	.134	ppb	.000	.134

*** Sample ID: Seq: 22 16:52:25 18 Jul 12 HG
480-22587-e-11-c

Hg	-.006	ppb	.000	-.006

*** Sample ID: Seq: 23 16:54:50 18 Jul 12 HG
480-22587-e-12-c

Hg	.003	ppb	.000	.003

*** Sample ID: Seq: 24 16:56:36 18 Jul 12 HG
480-22658-e-1-b

Hg	.029	ppb	.000	.029

*** Sample ID: Seq: 25 16:58:46 18 Jul 12 HG
480-22658-g-2-b

Hg	.041	ppb	.000	.041

*** Sample ID: Seq: 26 17:00:34 18 Jul 12 HG
480-22658-e-3-b

Hg	.002	ppb	.000	.002

*** Sample ID: Seq: 27 17:03:03 18 Jul 12 HG
480-22658-g-4-b

Hg	.017	ppb	.000	.017

*** Check Standard: 3 Ck3CCV Seq: 28 17:04:43 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.03	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 17:06:29 18 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.009	.200	ppb	.000

*** Sample ID: Seq: 30 17:08:39 18 Jul 12 HG
480-22655-e-4-b

Hg	.007	ppb	.000	.007

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 17:10:15 18 Jul 12 HG
480-22641-a-1-b

Hg	-.001	ppb	.000	-.001

*** Check Standard: 4 Ck4CRA Seq: 32 17:12:12 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.4	.193	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 33 17:14:38 18 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.02	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 34 17:16:45 18 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.008	.200	ppb	.000

WinHg Database 1.11

File Utility Help

RN↓ RN↑

Protocol hgppb

Dataset/Proto J07192D3/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.72196e-5

C -5.25430e-2

rho .999961

☑ Calibrated

☑ Accepted

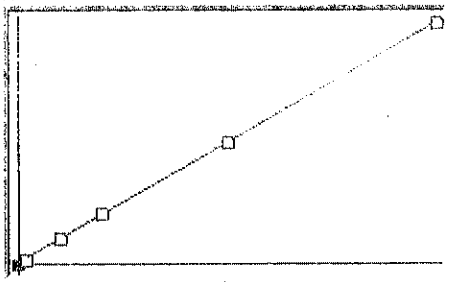
Accept

Type Linear

Rel. Abs.
582025

Accepted

New



Include S1 Rep 1☑ 2☑ 3☑ 4☐ 5☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.030	-.030	385	550	2002	584	1117
02	.20000	.174	-.026	13143	2.77%	13059	13540	12827
03	1.0000	1.00	.004	61354	0.13%	61354	61435	61275
04	2.0000	2.04	.037	121373	0.57%	120576	121782	121758
05	5.0000	5.04	.045	296019	0.21%	296594	296084	295377
06	10.000	9.97	-.030	582025	0.1%	582449	582280	581348

Ready CAP NUM

L3

7/19/12

73024

Cal: J07192C1

Run: J07192D4

Batches: 73001

Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

73024

*** Check Standard: 2 Ck2ICV Seq: 1 16:05:48 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.2	2.95	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 16:07:43 19 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.046	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 16:09:33 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		83.6	.167	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 16:11:23 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.05	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 16:12:59 19 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.055	.200	ppb	.000

*** Sample ID: Seq: 6 16:15:24 19 Jul 12 HG
mb 480-73002/1-b

Hg	-.038	ppb	.000	-.038

*** Sample ID: Seq: 7 16:17:01 19 Jul 12 HG
lcs 480-73002/2-b

Hg	3.80	ppb	.000	3.80

*** Sample ID: Seq: 8 16:18:48 19 Jul 12 HG
480-22692-a-2-a

Hg	-.052	ppb	.000	-.052

*** Sample ID: Seq: 9 16:20:29 19 Jul 12 HG
480-22692-a-4-a

Hg	.027	ppb	.000	.027

*** Sample ID: Seq: 10 16:22:07 19 Jul 12 HG
480-22692-a-6-a

Hg	-.021	ppb	.000	-.021

*** Sample ID: Seq: 11 16:23:43 19 Jul 12 HG
480-22692-a-6-a SD@5

Hg	-.039	ppb	.000	-.039

*** Sample ID: Seq: 12 16:26:49 19 Jul 12 HG
480-22692-a-6-b ms

Hg	4.10	ppb	.000	4.10

*** Sample ID: Seq: 13 16:28:46 19 Jul 12 HG
480-22692-a-6-c msd

Hg	4.05	ppb	.000	4.05

*** Sample ID: Seq: 14 16:30:24 19 Jul 12 HG
480-22692-a-8-a

Hg	.967	ppb	.000	.967

*** Sample ID: Seq: 15 16:32:01 19 Jul 12 HG
480-22692-a-10-a

Hg	-.048	ppb	.000	-.048

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 16:33:37 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	2.06	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 16:35:24 19 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.048	.200	ppb	.000

*** Sample ID: Seq: 18 16:37:01 19 Jul 12 HG

480-22692-a-12-a

Hg	-.048	ppb	.000	-.048

*** Sample ID: Seq: 19 16:38:58 19 Jul 12 HG

480-22697-e-1-a

Hg	-.041	ppb	.000	-.041

*** Sample ID: Seq: 20 16:40:48 19 Jul 12 HG

480-22697-e-2-a

Hg	-.034	ppb	.000	-.034

*** Sample ID: Seq: 21 16:42:24 19 Jul 12 HG

480-22697-e-3-a

Hg	-.029	ppb	.000	-.029

*** Sample ID: Seq: 22 16:44:02 19 Jul 12 HG

480-22697-e-4-a

Hg	-.038	ppb	.000	-.038

*** Sample ID: Seq: 23 16:46:03 19 Jul 12 HG

480-22697-e-5-a

Hg	-.041	ppb	.000	-.041

*** Check Standard: 4 Ck4CRA Seq: 24 16:47:45 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		89.0	.178	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 25 16:49:32 19 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	2.05	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 26 16:52:09 19 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.031	.200	ppb	.000

WinHg Database 1.1

File Utility Help

RN⇩ RN⇧ ?

Protocol hgppb

Dataset/Proto J072021/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.79207e-5

C -3.09540e-2

rho .999989

☑ Calibrated

☑ Accepted

Accept

Type Linear

Rel. Abs. 558765

Accepted

New

Include S1 Rep 1☑ 2☑ 3☑ 4☐ 5☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.008	-.008	1304	363	1665	1309	938
02	.20000	.188	-.012	12228	1.54%	12017	12287	12380
03	1.0000	.998	-.002	57419	0.05%	57386	57444	57430
04	2.0000	2.01	.006	113642	0.28%	113688	113933	113302
05	5.0000	5.03	.033	282591	0.15%	282944	282692	282135
06	10.000	9.98	-.017	558766	0.39%	558929	560878	556490

Ready CAP NUM

L3

7/20/12

73205

Cal: J072021

Run: J072021D1

Batches: 73212

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

73205

*** Check Standard: 2 Ck2ICV Seq: 1 14:40:40 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.7	2.96	3.00	ppb	.000

*** Check Standard: 1 Ck1ICB Seq: 2 14:42:16 20 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.040	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 14:44:05 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		90.1	.180	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 14:45:43 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.02	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 14:47:41 20 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.018	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 26 15:27:06 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	2.01	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 27 15:28:42 20 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.023	.200	ppb	.000

*** Sample ID: Seq: 30 15:34:14 20 Jul 12 HG

mb 480-73002/11-b

Hg	-.022	ppb	.000	-.022

*** Sample ID: Seq: 31 15:36:20 20 Jul 12 HG

lcs 480-73002/12-b

Hg	3.56	ppb	.000	3.56

*** Sample ID: Seq: 32 15:38:00 20 Jul 12 HG

480-22783-a-2-a

Hg	-.021	ppb	.000	-.021

*** Sample ID: Seq: 33 15:39:39 20 Jul 12 HG

480-22780-e-1-c

Hg	-.008	ppb	.000	-.008

*** Sample ID: Seq: 34 15:41:38 20 Jul 12 HG

480-22780-e-2-c

Hg	-.013	ppb	.000	-.013

*** Sample ID: Seq: 35 15:43:26 20 Jul 12 HG

480-22780-e-3-c

Hg	-.009	ppb	.000	-.009

*** Sample ID: Seq: 36 15:45:06 20 Jul 12 HG

480-22780-e-4-c

Hg	-.012	ppb	.000	-.012

*** Sample ID: Seq: 37 15:46:42 20 Jul 12 HG

480-22780-e-5-c

Hg	-.016	ppb	.000	-.016

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 38 15:48:41 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.01	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 39 15:50:27 20 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.029	.200	ppb	.000

*** Sample ID: Seq: 40 15:52:06 20 Jul 12 HG

480-22780-e-5-c SD@5

Hg	-.016	ppb	.000	-.016

*** Sample ID: Seq: 41 15:53:48 20 Jul 12 HG

480-22780-e-5-d ms

Hg	4.06	ppb	.000	4.06

*** Sample ID: Seq: 42 15:55:30 20 Jul 12 HG

480-22780-e-5-e msd

Hg	3.94	ppb	.000	3.94

*** Check Standard: 4 Ck4CRA Seq: 43 15:57:16 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		85.9	.172	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 44 15:58:54 20 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	2.00	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 45 16:00:30 20 Jul 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.031	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Batch Number: 72864 Batch Start Date: 07/18/12 09:20 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00141			
MB 480-72864/1		7470A, 7470A		30 mL	50 mL				
LCS 480-72864/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-22646-A-1	MR-GW-ISS-DP-15-22-26-T	7470A, 7470A	T	30 mL	50 mL				
480-22646-A-3	MR-GW-ISS-DP-15-12-16-T	7470A, 7470A	T	30 mL	50 mL				
480-22646-A-5	MR-GW-ISS-DP-15-32-36-T	7470A, 7470A	T	30 mL	50 mL				
480-22646-A-7	MR-GW-ISS-DP-15-42-46-T	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 72871
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-C
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	797049
Oven, Bath or Block Temperature 1	94.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1203159
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Batch Number: 72866 Batch Start Date: 07/18/12 09:30 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00141			
MB 480-72057/29-A		7470A, 7470A		30 mL	50 mL				
LCS 480-72057/30-A		7470A, 7470A		30 mL	50 mL	2 mL			
480-22646-A-2	MR-GW-ISS-DP-15-22-26-D	7470A, 7470A	D	30 mL	50 mL				
480-22646-A-4	MR-GW-ISS-DP-15-12-16-D	7470A, 7470A	D	30 mL	50 mL				
480-22646-A-6	MR-GW-ISS-DP-15-32-36-D	7470A, 7470A	D	30 mL	50 mL				
480-22646-A-8	MR-GW-ISS-DP-15-42-46-D	7470A, 7470A	D	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 72872
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-B
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	797049
Oven, Bath or Block Temperature 1	94.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1203159
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Batch Number: 73001 Batch Start Date: 07/19/12 08:00 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00142			
MB 480-73002/1-A		7470A, 7470A		30 mL	50 mL				
LCS 480-73002/2-A		7470A, 7470A		30 mL	50 mL	2 mL			
480-22692-A-2	MR-GW-ISS-DP-15-52-56-D	7470A, 7470A	D	30 mL	50 mL				
480-22692-A-4	MR-GW-ISS-DP-15-62-66-D	7470A, 7470A	D	30 mL	50 mL				
480-22692-A-6	MR-GW-ISS-DP-12-21-25-D	7470A, 7470A	D	30 mL	50 mL				
480-22692-A-6 MS	MR-GW-ISS-DP-12-21-25-D	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-22692-A-6 MSD	MR-GW-ISS-DP-12-21-25-D	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-22692-A-8	MR-GW-ISS-DP-12-11-15-D	7470A, 7470A	D	30 mL	50 mL				
480-22692-A-10	MR-GW-ISS-DP-12-31-35-D	7470A, 7470A	D	30 mL	50 mL				
480-22692-A-12	MR-GW-ISS-DP-12-41-45-D	7470A, 7470A	D	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 73026
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-A
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	797049
Oven, Bath or Block Temperature 1	94.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1203159
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Batch Number: 73014 Batch Start Date: 07/19/12 08:40 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00142			
MB 480-73014/1		7470A, 7470A		30 mL	50 mL				
LCS 480-73014/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-22692-A-1	MR-GW-ISS-DP-15-52-56-T	7470A, 7470A	T	30 mL	50 mL				
480-22692-A-3	MR-GW-ISS-DP-15-62-66-T	7470A, 7470A	T	30 mL	50 mL				
480-22692-A-5	MR-GW-ISS-DP-12-21-25-T	7470A, 7470A	T	30 mL	50 mL				
480-22692-A-5 MS	MR-GW-ISS-DP-12-21-25-T	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-22692-A-5 MSD	MR-GW-ISS-DP-12-21-25-T	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-22692-A-7	MR-GW-ISS-DP-12-11-15-T	7470A, 7470A	T	30 mL	50 mL				
480-22692-A-9	MR-GW-ISS-DP-12-31-35-T	7470A, 7470A	T	30 mL	50 mL				
480-22692-A-11	MR-GW-ISS-DP-12-41-45-T	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch:73024
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-C
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	797049
Oven, Bath or Block Temperature 1	95.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1203159
Uncorrected Temperature	96.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Batch Number: 73185 Batch Start Date: 07/20/12 09:00 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00143			
MB 480-73185/1		7470A, 7470A		30 mL	50 mL				
LCS 480-73185/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-22783-A-1	MR-GW-ISS-DP-12-51-55-T	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 73205
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-B
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	827319
Oven, Bath or Block Temperature 1	94.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1203159
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-22646-1

SDG No.:

Batch Number: 73212 Batch Start Date: 07/20/12 09:10 Batch Analyst: Kacalski, Jason

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00143			
MB 480-73002/11-A		7470A, 7470A		30 mL	50 mL				
LCS 480-73002/12-A		7470A, 7470A		30 mL	50 mL	2 mL			
480-22783-A-2	MR-GW-ISS-DP-12-51-55-D	7470A, 7470A	D	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	790566
Batch Comment	Prep Batch: 73205
Sulfuric Acid Lot Number	719029
Lot # of Nitric Acid	597537
Hood ID or number	Hg-C
Potassium Persulfate Lot Number	747132
Potassium Permanganate Lot Number	827319
Oven, Bath or Block Temperature 1	94.5 Celsius
Stannous Chloride Lot Number	822779
ID number of the thermometer	a02-24-10
Digestion Tube/Cup Lot #	1203159
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
D	Dissolved

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 7/18/12	Chain of Custody Number: 228189
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number: —	Page 1 of 1
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Catie Mine; Lab Contact: Brian Fischer		
Project Name and Location (State): Mereco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Mercury 7470A	Special Instructions/ Conditions of Receipt
MR-GW-1SS-DP-12-51-55-T	7/18/12	8:30		X					X				X	
MR-GW-1SS-DP-12-51-55-D	7/18/12	8:30		X					X				X	

TDK 7-18-12

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	7/18/12	1340	1. Received By: [signature]	7-18-12	1340
2. Relinquished By: [signature]	7-18-12	1700	2. Received By: [signature]	7-19-12	0800
3. Relinquished By:			3. Received By:		

Comments: 2.9 HZ

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

07/26/2012

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 7/16/12	Chain of Custody Number: 228181
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-336-1107	Lab Number: —	Page 1 of ___
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Cathe Mino	Lab Contact: Fran Fischer	
Project Name and Location (State): Mercer, Celanese, NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed): Mercury 7470A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Mercury 7470A
MR-GW-155-DP-15-22-26-T	7/16/12	11:30		X					X				X
MR-GW-155-DP-15-22-26-D	7/16/12	11:30		X					X				X
MR-GW-155-DP-15-12-16-T	7/16/12	11:46		X					X				X
MR-GW-155-DP-15-12-16-D	7/16/12	11:46		X					X				X
MR-GW-155-DP-15-32-36-T	7/16/12	13:25		X					X				X
MR-GW-155-DP-15-32-36-D	7/16/12	13:25		X					X				X
MR-GW-155-DP-15-42-46-T	7/16/12	16:05		X					X				X
MR-GW-155-DP-15-42-46-D	7/16/12	16:05		X					X				X

TDC 7-16-12

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 3 Days

QC Requirements (Specify)

1. Relinquished By: [signature]	Date: 7/16/12	Time: 16:29	1. Received By: [signature]	Date: 7-16-12	Time: 1629
2. Relinquished By: [signature]	Date: 7-16-12	Time: 1700	2. Received By: [signature]	Date: 7/17/12	Time: 0900
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments: 2.8 #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample, PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 7/17/12	Chain of Custody Number: 228194
Address: 110 Commerce Dr.	Telephone Number (Area Code)/Fax Number: 201-574-7700 / 201-236-1607	Lab Number: —	Page 1 of 1
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Cabe Mino	Lab Contact: Brian Fischer	
Project Name and Location (State): Mercco, Colonie, NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: —			

Analysis (Attach list if more space is needed): Mercury 7470A

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Mercury 7470A	Special Instructions/ Conditions of Receipt
MR-GW-155-DP-15-52-56-T	7/17/12	8:55		X					X				X	
MR-GW-155-DP-15-52-56-D	7/17/12	8:55		X					X				X	
MR-GW-155-DP-15-62-66-T	7/17/12	10:40		X					X				X	
MR-GW-155-DP-15-62-66-D	7/17/12	10:40		X					X				X	
MR-GW-155-DP-12-21-25-T	7/17/12	13:45		X					X				X	MS/MSD
MR-GW-155-DP-12-21-25-D	7/17/12	13:45		X					X				X	MS/MSD
MR-GW-155-DP-12-11-15-T	7/17/12	14:15		X					X				X	
MR-GW-155-DP-12-11-15-D	7/17/12	14:15		X					X				X	
MR-GW-155-DP-12-31-35-T	7/17/12	15:35		X					X				X	
MR-GW-155-DP-12-31-35-D	7/17/12	15:35		X					X				X	
MR-GW-155-DP-12-41-45-T	7/17/12	15:55		X					X				X	
MR-GW-155-DP-12-41-45-D	7/17/12	15:55		X					X				X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	7/17/12	16:15	1. Received By: [signature]	7-17-12	1615
2. Relinquished By: [signature]	7-17-12	1700	2. Received By: [signature]	7-18-12	0800
3. Relinquished By:			3. Received By:		

Comments: 2.9 #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-22646-1

Login Number: 22646

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-22646-1

Login Number: 22692

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-22646-1

Login Number: 22783

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-23257-1

Job Description: Colonie, NY site

For:
Brown and Caldwell
110 Commerce Drive
Allendale, NJ 07401

Attention: Ms. Carolyn A Spinapolice

Approved for release.
Brian Fischer
Project Manager II
8/7/2012 8:56 AM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com
08/07/2012

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-23257-1

Receipt
The sample was received on 8/1/2012 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

Metals
Method 7470A: The following sample was diluted to bring the concentration of target analyte total mercury within the calibration range: MR-SUMP WATER (480-23257-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-23257-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-23257-1	MR-SUMP WATER	Water	07/31/2012 1510	08/01/2012 0900

EXECUTIVE SUMMARY - Detections

Client: Brown and Caldwell

Job Number: 480-23257-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-23257-1	**MR-SUMP WATER**					
Mercury, Total		21.3		0.40	ug/L	7470A

METHOD SUMMARY

Client: Brown and Caldwell

Job Number: 480-23257-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Brown and Caldwell

Job Number: 480-23257-1

Method	Analyst	Analyst ID
SW846 7470A	Marzolf, Michelle	MM

Client: Brown and Caldwell

Job Number: 480-23257-1

Client Sample ID: **MR-SUMP WATER**

Lab Sample ID: 480-23257-1

Client Matrix: Water

Date Sampled: 07/31/2012 1510

Date Received: 08/01/2012 0900

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-74927	Instrument ID:	LEEMAN3
Prep Method:	7470A	Prep Batch:	480-74882	Lab File ID:	J08022W1.PRN
Dilution:	2.0			Initial Weight/Volume:	30 mL
Analysis Date:	08/02/2012 1511			Final Weight/Volume:	50 mL
Prep Date:	08/02/2012 1045				

Analyte	Result (ug/L)	Qualifier	RL
Mercury, Total	21.3		0.40

Client: Brown and Caldwell

Job Number: 480-23257-1

Method Blank - Batch: 480-74882

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-74882/1-A	Analysis Batch:	480-74927	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-74882	Lab File ID:	J08022W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	08/02/2012 1346	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/02/2012 1045				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury, Total	ND		0.20

Lab Control Sample - Batch: 480-74882

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-74882/2-A	Analysis Batch:	480-74927	Instrument ID:	LEEMAN3
Client Matrix:	Water	Prep Batch:	480-74882	Lab File ID:	J08022W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	08/02/2012 1348	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/02/2012 1045				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury, Total	6.67	6.58	99	80 - 120	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Brown and Caldwell

Job Number: 480-23257-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-74882					
LCS 480-74882/2-A	Lab Control Sample	T	Water	7470A	
MB 480-74882/1-A	Method Blank	T	Water	7470A	
480-23257-1	MR-SUMP WATER	T	Water	7470A	
Analysis Batch:480-74927					
LCS 480-74882/2-A	Lab Control Sample	T	Water	7470A	480-74882
MB 480-74882/1-A	Method Blank	T	Water	7470A	480-74882
480-23257-1	MR-SUMP WATER	T	Water	7470A	480-74882

Report Basis

T = Total

Certification Summary

Client: Brown and Caldwell
Project/Site: Colonie, NY site

TestAmerica Job ID: 480-23257-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Client: Brown and Caldwell

Job Number: 480-23257-1

Laboratory Chronicle

Lab ID: **480-23257-1** **Client ID:** **MR-SUMP WATER**

Sample Date/Time: 07/31/2012 15:10 Received Date/Time: 08/01/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	480-23257-A-1-A ^2		480-74927	480-74882	08/02/2012 10:45	2	TAL BUF	MM
A:7470A	480-23257-A-1-A ^2		480-74927	480-74882	08/02/2012 15:11	2	TAL BUF	MM

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	MB 480-74882/1-A		480-74927	480-74882	08/02/2012 10:45	1	TAL BUF	MM
A:7470A	MB 480-74882/1-A		480-74927	480-74882	08/02/2012 13:46	1	TAL BUF	MM

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	LCS 480-74882/2-A		480-74927	480-74882	08/02/2012 10:45	1	TAL BUF	MM
A:7470A	LCS 480-74882/2-A		480-74927	480-74882	08/02/2012 13:48	1	TAL BUF	MM

Lab References:
TAL BUF = TestAmerica Buffalo

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-23257-1

SDG No.:

Project: Colonie, NY site

Client Sample ID	Lab Sample ID
MR-SUMP WATER	480-23257-1

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MR-SUMP WATER
Lab Sample ID: 480-23257-1
Lab Name: TestAmerica Buffalo
Job No.: 480-23257-1
SDG ID.:
Matrix: Water
Date Sampled: 07/31/2012 15:10
Reporting Basis: WET
Date Received: 08/01/2012 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury, Total	21.3	0.40		ug/L			2	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

SDG No.:

ICV Source: MEH_HG2_WKG_00153 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00153

Analyte	ICV 480-74927/1 08/02/2012 13:37				CCV 480-74927/4 08/02/2012 13:43				CCV 480-74927/16 08/02/2012 14:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00295		0.00300	98	0.00198		0.00200	99	0.00200		0.00200	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

SDG No.:

ICV Source: MEH_HG2_WKG_00153 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00153

Analyte	CCV 480-74927/28 08/02/2012 14:26				CCV 480-74927/52 08/02/2012 15:08				CCV 480-74927/56 08/02/2012 15:15			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury, Total	0.00197		0.00200	99	0.00198		0.00200	99	0.00199		0.00200	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN3

Lab Sample ID: CRA 480-74927/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00153

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		80	50-150

Lab Sample ID: CRA 480-74927/55 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00153

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury, Total	0.000200	ND		70	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-74927/2 08/02/2012 13:39		CCB 480-74927/5 08/02/2012 13:44		CCB 480-74927/17 08/02/2012 14:06		CCB 480-74927/29 08/02/2012 14:28	
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-74927/53 08/02/2012 15:10		CCB 480-74927/57 08/02/2012 15:17					
		Found	C	Found	C	Found	C	Found	C
Mercury, Total	0.00020	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-74882/1-A

Instrument Code: LEEMAN3 Batch No.: 74927

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury, Total	ND			7470A

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-74882/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00153

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury, Total	6.67	6.58		99	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-23257-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A RL Date: 08/11/2009 14:02

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	
Mercury, Total	253.7	0.0002	

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-23257-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury, Total	253.7	0.0002	0.00012

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-23257-1

SDG No.:

Instrument ID: LEEMAN3 Date: 03/20/2012 10:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury, Total	10	10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-74882/1-A	08/02/2012 10:45	74882		30	50
LCS 480-74882/2-A	08/02/2012 10:45	74882		30	50
480-23257-1	08/02/2012 10:45	74882		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 08/02/2012 13:37 End Date: 08/02/2012 15:17

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-74927/1	1		13:37	X																			
ICB 480-74927/2	1		13:39	X																			
CRA 480-74927/3	1		13:41	X																			
CCV 480-74927/4	1		13:43	X																			
CCB 480-74927/5	1		13:44	X																			
MB 480-74882/1-A	1	T	13:46	X																			
LCS 480-74882/2-A	1	T	13:48	X																			
ZZZZZZ			13:50																				
ZZZZZZ			13:51																				
ZZZZZZ			13:53																				
ZZZZZZ			13:55																				
ZZZZZZ			13:56																				
ZZZZZZ			13:58																				
ZZZZZZ			14:01																				
ZZZZZZ			14:02																				
CCV 480-74927/16	1		14:04	X																			
CCB 480-74927/17	1		14:06	X																			
ZZZZZZ			14:08																				
ZZZZZZ			14:10																				
ZZZZZZ			14:12																				
ZZZZZZ			14:14																				
ZZZZZZ			14:16																				
ZZZZZZ			14:18																				
ZZZZZZ			14:19																				
ZZZZZZ			14:21																				
ZZZZZZ			14:22																				
ZZZZZZ			14:24																				
CCV 480-74927/28	1		14:26	X																			
CCB 480-74927/29	1		14:28	X																			
ZZZZZZ			14:29																				
ZZZZZZ			14:31																				
ZZZZZZ			14:33																				
ZZZZZZ			14:35																				
ZZZZZZ			14:37																				
ZZZZZZ			14:38																				
ZZZZZZ			14:40																				
ZZZZZZ			14:42																				
ZZZZZZ			14:43																				
ZZZZZZ			14:45																				
CCV 480-74927/40			14:47																				
CCB 480-74927/41			14:49																				
ZZZZZZ			14:51																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 08/02/2012 13:37 End Date: 08/02/2012 15:17

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:53																				
ZZZZZZ			14:55																				
ZZZZZZ			14:56																				
ZZZZZZ			14:58																				
ZZZZZZ			15:00																				
ZZZZZZ			15:01																				
ZZZZZZ			15:03																				
ZZZZZZ			15:05																				
ZZZZZZ			15:06																				
CCV 480-74927/52	1		15:08	X																			
CCB 480-74927/53	1		15:10	X																			
480-23257-1	2	T	15:11	X																			
CRA 480-74927/55	1		15:13	X																			
CCV 480-74927/56	1		15:15	X																			
CCB 480-74927/57	1		15:17	X																			

Prep Types

T = Total/NA

WinHg Database 1.1

File Utility Help

RN RN

Protocol hgppb | BUSY | Dataset/Proto J08022W1/hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.46320e-5

C -6.78117e-2

rho .999831

Calibrated

Accepted

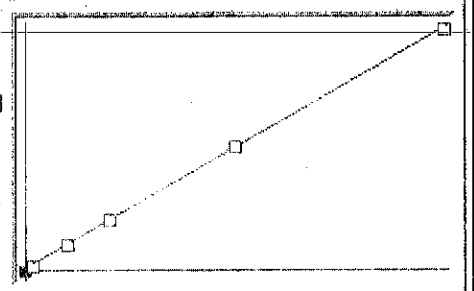
Accept

Type Linear

Rel. Abs. 683241

Accepted

New



Include S1 Rep 1 2 3 4 5

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.051	.051	1144	1119	1941	436	1825
02	.20000	.171	-.029	16301	6.93%	15679	15621	17605
03	1.0000	.996	-.004	72721	0.81%	73110	72044	73007
04	2.0000	2.03	.028	143219	1.33%	145323	142711	141623
05	5.0000	5.13	.127	355031	0.68%	357788	353946	353360
06	10.000	9.93	-.071	683241	0.32%	685570	682886	681269

Ready CAP NUM

L3
8/2/12

74909

CAL: J08022C1

RUN: J08022W1

BATCH: 74882

⊥ 74883

RAW DATA REVIEW: 8/2/12 MDM

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

74909

*** Check Standard: 2 Ck2ICV Seq: 1 13:37:20 02 Aug 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.2	2.95	3.00	ppb	.000

*** Check Standard: 1 ~~Ck1CCB~~ ICB Seq: 2 13:39:06 02 Aug 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.056	.200	ppb	.000

*** Check Standard: 4 Ck4CRA Seq: 3 13:41:23 02 Aug 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		79.8	.160	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 13:43:20 02 Aug 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.2	1.98	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 13:44:59 02 Aug 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.034	.200	ppb	.000

*** Sample ID: Seq: 6 13:46:34 02 Aug 12 HG
mb 480-74882/1-a

Hg	-.056	ppb	.000	-.056

*** Sample ID: Seq: 7 13:48:21 02 Aug 12 HG
lcs 480-74882/2-o

Hg	3.95	ppb	.000	3.95

*** Sample ID: Seq: 8 13:50:10 02 Aug 12 HG
480-23277-b-2-a

Hg	-.016	ppb	.000	-.016

*** Sample ID: Seq: 9 13:51:55 02 Aug 12 HG
480-23257-a-1-a

RR 1:2

Hg	11.4 H	ppb	.000	11.4

*** Sample ID: Seq: 10 13:53:31 02 Aug 12 HG
480-23263-g-1-a

Hg	-.054	ppb	.000	-.054

*** Sample ID: Seq: 11 13:55:17 02 Aug 12 HG
480-23297-e-4-b

Hg	-.058	ppb	.000	-.058

*** Sample ID: Seq: 12 13:56:53 02 Aug 12 HG
480-23315-d-3-b

Hg	1.32	ppb	.000	1.32

*** Sample ID: Seq: 13 13:58:49 02 Aug 12 HG
480-23315-d-6-b

Hg	.611	ppb	.000	.611

*** Sample ID: Seq: 14 14:01:05 02 Aug 12 HG
480-23324-i-1-b

Hg	-.052	ppb	.000	-.052

*** Sample ID: Seq: 15 14:02:42 02 Aug 12 HG
480-23279-c-1-c

Hg	-.061	ppb	.000	-.061

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 14:04:19 02 Aug 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	2.00	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 14:06:07 02 Aug 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.029	.200	ppb	.000

*** Sample ID: Seq: 18 14:08:14 02 Aug 12 HG
480-23279-e-2-c
Hg -.053 ppb .000 -.053

*** Sample ID: Seq: 19 14:10:19 02 Aug 12 HG
480-23279-e-3-c
Hg -.082 ppb .000 -.082

*** Sample ID: Seq: 20 14:12:07 02 Aug 12 HG
480-23279-c-4-c
Hg -.042 ppb .000 -.042

*** Sample ID: Seq: 21 14:14:07 02 Aug 12 HG
480-23284-e-1-c
Hg -.061 ppb .000 -.061

*** Sample ID: Seq: 22 14:16:02 02 Aug 12 HG
480-23267-e-1-e
Hg .001 ppb .000 .001

*** Sample ID: Seq: 23 14:18:00 02 Aug 12 HG
480-23267-e-2-c
Hg -.051 ppb .000 -.051

*** Sample ID: Seq: 24 14:19:36 02 Aug 12 HG
480-23267-e-3-c
Hg -.042 ppb .000 -.042

*** Sample ID: Seq: 25 14:21:23 02 Aug 12 HG
480-23267-e-3-c sd@5
Hg -.068 ppb .000 -.068

*** Sample ID: Seq: 26 14:22:59 02 Aug 12 HG
480-23267-e-3-d ms
Hg 3.97 ppb .000 3.97

*** Sample ID: Seq: 27 14:24:38 02 Aug 12 HG
480-23267-e-3-e msd
Hg 3.97 ppb .000 3.97

*** Check Standard: 3 Ck3CCV Seq: 28 14:26:25 02 Aug 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.5	1.97	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 14:28:10 02 Aug 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.068	.200	ppb	.000

*** Sample ID: Seq: 30 14:29:57 02 Aug 12 HG
480-23265-c-1-c
Hg -.048 ppb .000 -.048

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 14:31:44 02 Aug 12 HG
480-23265-c-2-c
Hg -.043 ppb .000 -.043

*** Sample ID: Seq: 32 14:33:43 02 Aug 12 HG
480-23265-c-3-c
Hg .012 ppb .000 .012

*** Sample ID: Seq: 33 14:35:20 02 Aug 12 HG
480-23265-c-4-c
Hg -.021 ppb .000 -.021

*** Sample ID: Seq: 34 14:37:16 02 Aug 12 HG
480-23276-s-1-b
Hg -.061 ppb .000 -.061

*** Sample ID: Seq: 35 14:38:56 02 Aug 12 HG
mb 480-74883/1-a
Hg -.048 ppb .000 -.048

*** Sample ID: Seq: 36 14:40:42 02 Aug 12 HG
lcs 480-74883/2-a
Hg 3.91 ppb .000 3.91

*** Sample ID: Seq: 37 14:42:17 02 Aug 12 HG
480-23291-r-1-c
Hg -.032 ppb .000 -.032

*** Sample ID: Seq: 38 14:43:56 02 Aug 12 HG
480-23291-r-2-c
Hg -.065 ppb .000 -.065

*** Sample ID: Seq: 39 14:45:47 02 Aug 12 HG
480-23291-r-3-c
Hg .004 ppb .000 .004

*** Check Standard: 3 Ck3CCV Seq: 40 14:47:58 02 Aug 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	2.01	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 41 14:49:36 02 Aug 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.066	.200	ppb	.000

*** Sample ID: Seq: 42 14:51:48 02 Aug 12 HG
480-23291-r-4-c
Hg -.044 ppb .000 -.044

*** Sample ID: Seq: 43 14:53:25 02 Aug 12 HG
480-23262-g-1-b
Hg -.056 ppb .000 -.056

*** Sample ID: Seq: 44 14:55:03 02 Aug 12 HG
480-23262-g-2-b
Hg -.045 ppb .000 -.045

*** Sample ID: Seq: 45 14:56:50 02 Aug 12 HG
480-23262-g-3-b
Hg -.034 ppb .000 -.034

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 46 14:58:26 02 Aug 12 HG
480-23262-g-3-b sd@5
Hg -.048 ppb .000 -.048

*** Sample ID: Seq: 47 15:00:02 02 Aug 12 HG
480-23262-g-3-c ms
Hg 3.98 ppb .000 3.98

*** Sample ID: Seq: 48 15:01:50 02 Aug 12 HG
480-23262-g-3-d msd
Hg 3.87 ppb .000 3.87

*** Sample ID: Seq: 49 15:03:26 02 Aug 12 HG
360-41914-c-3-a
Hg .064 ppb .000 .064

*** Sample ID: Seq: 50 15:05:01 02 Aug 12 HG
480-23159-a-1-e
Hg -.061 ppb .000 -.061

*** Sample ID: Seq: 51 15:06:42 02 Aug 12 HG
480-23159-a-2-e
Hg -.053 ppb .000 -.053

*** Check Standard: 3 Ck3CCV Seq: 52 15:08:29 02 Aug 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.8	1.98	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 53 15:10:05 02 Aug 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.048	.200	ppb	.000

*** Sample ID: Seq: 54 15:11:43 02 Aug 12 HG
480-23257-a-1-a@2
Hg 6.40 ppb .000 6.40

*** Check Standard: 4 Ck4CRA Seq: 55 15:13:38 02 Aug 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		70.2	.140	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 56 15:15:27 02 Aug 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.3	1.99	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 57 15:17:26 02 Aug 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.069	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-23257-1

SDG No.:

Batch Number: 74882 Batch Start Date: 08/02/12 10:45 Batch Analyst: Marzolf, Michelle

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00153			
MB 480-74882/1		7470A, 7470A		30 mL	50 mL				
LCS 480-74882/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-23257-A-1	MR-SUMP WATER	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	837428
Batch Comment	CAL Batch: 74909
Sulfuric Acid Lot Number	823531
Lot # of Nitric Acid	597537
Hot Block ID number	A
Potassium Persulfate Lot Number	837400
Potassium Permanganate Lot Number	827317
Oven, Bath or Block Temperature 1	97.5 Celsius
Stannous Chloride Lot Number	849187
ID number of the thermometer	A02-24-10
Digestion Tube/Cup Lot #	1202052
Uncorrected Temperature	98.0 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Brown and Caldwell	Project Manager: Frank Williams	Date: 7/31/12	Chain of Custody Number: 228193
Address: 110 Commerce Dr	Telephone Number (Area Code)/Fax Number: 201-574-4700 / 201-236-1607	Lab Number	Page 1 of 1
City: Allendale; State: NJ; Zip Code: 07401	Site Contact: Cathie Mino	Lab Contact: Brian Fischer	
Project Name and Location (State): Merck	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): Total Hg 7470A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil		Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH		Total Hg 7470A
MR-sumpwater	7/31/12	15:10		X						X					X

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7/31/12	1615	1. Received By	7-31-12	1615
2. Relinquished By	7-31-12	1700	2. Received By	8/1/12	0900
3. Relinquished By			3. Received By		

Comments: 2.8 #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample, PINK - Field Copy

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 480-23257-1

Login Number: 23257

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	B+C
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix I: Photo-Documentation Log

Photograph # 1: Date: 6/21/12 Photographer's Initials: ACM
Description: Start of Container Storage Building (CSB) demolition (facing Southeast).

Photograph # 2: Date: 6/21/12 Photographer's Initials: ACM
Description: CSB demolition progress (facing Northeast).

Photograph # 3: Date: 6/21/12 Photographer's Initials: ACM
Description: Building debris after completion of demolition (facing North).

Photograph # 4: Date: 6/22/12 Photographer's Initials: ACM
Description: Wetting down debris to suppress dust (facing Northwest).

Photograph # 5: Date: 6/22/12 Photographer's Initials: ACM
Description: Loading demolition debris onto trucks for off-site disposal (facing Northwest).

Photograph # 6: Date: 6/22/12 Photographer's Initials: ACM
Description: Building slab after demolition and loading of debris complete (facing Northwest).

Appendix J: Laboratory Data Package for EPA Split Samples

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME A4SCIENTIFIC INC.
CITY/STATE THE WOODLANDS,TX

CASE NO. 42822 SDG NO. MBA305
SDG NOs. TO FOLLOW NA
MOD. REF. NO. NA

CONTRACT NO. EPW09035
SOW NO. ISM01.3

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
1.	Inventory Sheet (DC-2)	1	2	√	
2.	SDG Narrative	3	4	√	
3.	Sample Log-In Sheet (DC-1)	5	5	√	
4.	Traffic Report/Chain of Custody Record(s)	6	7	√	
5.	Cover Page	8	8	√	
Inorganic Analysis					
6.	Data Sheet (Form I-IN)	9	11	√	
7.	Initial & Continuing Calibration Verification (Form IIA-IN)	12	13	√	
8.	Blanks (Form III-IN)	14	15	√	
9.	ICP-AES Interference Check Sample (Form IVA-IN)	NA	NA	NA	
10.	ICP-MS Interference Check Sample (Form IVB-IN)	NA	NA	NA	
11.	Matrix Spike Sample Recovery (Form VA-IN)	16	16	√	
12.	Post-Digestion Spike Sample Recovery (Form VB-IN)	NA	NA	NA	
13.	Duplicates (Form VI-IN)	17	17	√	
14.	Laboratory Control Sample (Form VII-IN)	NA	NA	NA	
15.	ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	NA	NA	NA	
16.	Method Detection Limit (Annually) (Form IX-IN)	18	18	√	
17.	ICP-AES Interelement Correction Factors (Annually) (Form XA-IN)	NA	NA	NA	
18.	ICP-AES Interelement Correction Factors (Annually) (Form XB-IN)	NA	NA	NA	
19.	Internal Standard Association (Form XI-IN)	NA	NA	NA	
20.	Preparation Log (Form XII-IN)	19	19	√	
21.	Analysis Run Log (Form XIII-IN)	20	21	√	
22.	ICP-MS Tune (Form XIV-IN)	NA	NA	NA	

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
23.	ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	NA	NA	NA	
24.	Initial Calibration (Form XVI-IN)	22	24	√	
25.	ICP-AES Raw Data	NA	NA	NA	
26.	ICP-MS Raw Data	NA	NA	NA	
27.	Mercury Raw Data	25	43	√	
28.	Cyanide Raw Data	NA	NA	NA	
29.	Preparation Logs Raw Data	44	75	√	
30.	Percent Solids Determination Log/pH Log	76	76	√	
31.	USEPA Shipping/Receiving Documents				
	Airbill (No. of Shipments 1)	77	77	√	
	Sample Tags	NA	NA	NA	
	Sample Log-In Sheet (Lab)	78	78	√	
32.	Misc. Shipping/Receiving Records (list all individual records)				
	Communication Logs				
	Custody seal	79	79	√	
33.	Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
	(Sample Custody log Book-Cooler A)	80	80	√	
34.	Internal Original Sample Prep & Analysis Records (describe or list)				
	Prep Records (Digestion & Distillation logbook	44	46	√	
	Analysis Records (Preparation & Analysis logbook)	47	75	√	
	Description	NA	NA	NA	
35.	Other Records(describe or list): PE Instructions	NA	NA	NA	
	Communication Logs: E-mails	81	82	√	
		NA	NA	NA	

36. Comments:

Completed by:
(CLP Lab) (Signature) Sree Lakshmi Teerupalli,QAO (Print Name & Title) 09/26/2012 (Date)

Audited by:
(USEPA) (Signature) (Print Name & Title) (Date)

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW09035	Case #: 42822	SDG #: MBA305

SDG NARRATIVE

SAMPLE RECIEPT & LOGIN

The following samples were received on the dates listed against them. The samples were logged in for analysis as listed.

Client Sample	*Lab Sample*	*Matrix*	*#Cont.*	*Received*	*Analysis*	*Comments*
MBA305	0016484-01	Water	1	09/13/12 10:10	ISM01.3 HG	1st Sx
MBA306	0016484-02	Water	2	09/13/12 10:10	ISM01.3 HG	MS/Dup
MBA307	0016484-03	Water	1	09/13/12 10:10	ISM01.3 HG	Last Sx

THE FOLLOWING ISSUES WERE NOTED :

Issue: Per TR/COC the TAT is 21 days, however, per scheduling, the TAT is 14 days.

Resolution: In accordance with previous direction from Region 2, the laboratory will proceed with the turnaround time indicated on the Scheduling Notification Form, note the issue in the SDG Narrative, and proceed with the analysis of the samples. The resolution will be applied to all TR/COCs received for this Case that list an incorrect turnaround time.

Issue: Sample tags were not received with samples at the laboratory. Sample tag numbers may Or may not be listed on the TR/COC.

Resolution: In accordance with previous direction from [Region _2], the laboratory will note the issue in the SDG Narrative, and proceed with the analysis of the sample. The Resolution will be applied to all samples received for this Case.

Note: [Region 2, 4, 5, 7, 8, 9 or 10] or [GLNPO or ASB] does not require sample tags.

Applicable to: Regions 2, 3, 4, 5, 7, 8, 9, 10 and GLNPO

Directive is enclosed. No other discrepancies or issues were noted during receipt and login.

pH of the water samples was verified upon sample receipt and the reading is listed below. pH determination log is included in the data package.

EPA SAMPLE #	LAB SAMPLE #`	pH-HG
MBA305	0016484-01	<2
MBA306	0016484-02	<2
MBA307	0016484-03	<2

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW09035	**Case #: 42822**	**SDG #: MBA305**

SDG NARRATIVE

MERCURY

Water samples were digested by Hot-Block technique (7470A) and analyzed using a Perkin Elmer FIMs-100 Mercury Analyzer.

MS and DUP were performed on sample "MBA306" and they were within the QC limits.

No problems were encountered during sample preparation or analysis.

The following equations are used for calculation of sample results from raw instrument output data:

MERCURY

WATER Samples:

A standard curve is prepared by plotting the instrumental response of processed standards against true concentration values. Using a linear regression equation, the concentration of field and Quality Control (QC) samples is determined.

SAMPLE LOG-IN SHEET 16484-A

Lab Name: A4 SCIENTIFIC INC	Page 1 of 1
Received By (Print Name): RAJANI NEPAL	Log-in Date 9/13/12
Received By (Signature): Rajani	
Case Number 42822 / Sample Delivery Group No. MBA305	Mod. Ref. No. NA

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal NOs.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill Sticker Present/Absent*
5. Airbill No.	80139224 9/13/12 9118-9118
6. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	4°C
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree?	Yes/No*
11. Date Received at Lab	9/13/12
12. Time Received	10:10

Sample Transfer	
Fraction Metals	Fraction
Area# Cooler-A	Area#
By	By 9/13/12
On 9/13/12	On

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBA305	Metals C2	NA	001648 4-01	1-1L plastic intact
2	06			-02	2-1L plastic
3	07			-03	1-1L plastic
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					9/13/12
22					

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 9/13/12	Logbook Page No. N/A

* Only HG analysis required for this SDG.

SAMPLE DELIVERY GROUP (SDG)
COVER SHEET

SDG Number: MBA305

☐ **ICP-AES Analysis** ☐ **ICP-MS Analysis**

Laboratory Name: A4 SCIENTIFIC, INC. **Laboratory Code:** A4

Contract No.: EPW09035 **Case No.:** 42822

Analysis Price: Ø **SDG Turnaround:** 14 days

Modified Analysis (if applicable):

Modification Reference No.: NA

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) MBA305	7)	13)	19)
2) MBA306	8)	14)	20)
3) MBA307	9)	15)	21)
4)	10)	16)	22)
5)	11)	17)	23)
6)	12)	18)	24)

MBA305
First Sample in SDG

MBA307
Last Sample in SDG

09/13/2012
First Sample Receipt Date

09/13/2012
Last Sample Receipt Date

Note: *There are a maximum of 20* ***field*** *samples [excluding Performance Evaluation (PE) Samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature

9/14/12
Date

USEPA CLP Inorganics COC (LAB COPY)

DateShipped: 9/12/2012
CarrierName: FedEx
AirbillNo: 801392249118

CHAIN OF CUSTODY RECORD

Contract
Case #: 42822 EPW09035
Cooler #: 1 SDG:- MBA305

No: 2-090612-103032-0001

Lab: A4 Scientific
Lab Contact: Reddy Pakanati
Lab Phone: 281-292-5277

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	For Lab Use Only
MBA305	Ground Water/ Dante Porzilli	Grab	Hg(21)	1002 (HNO3 pH<2) (1)	MR-GW-MW-ISS-10S-F-CDM	09/12/2012 13:45		0016484 -01 1st sx in SDG
MBA306	Ground Water/ Dante Porzilli	Grab	Hg(21)	1001 (HNO3 pH<2) (2)	MR-GW-MW-ISS-11S-F-CDM	09/12/2012 11:11		-02
MBA307	Ground Water/ Dante Porzilli	Grab	Hg(21)	1000 (HNO3 pH<2) (1)	MR-GW-MW-ISS-12S-F-CDM	09/11/2012 12:25		-03 final sx in SDG

R 9/13/12

Sample(s) to be used for Lab QC: MBA306 - Special Instructions: Disregard Tag Numbers

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: Hg=CLP Mercury

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
3 Samples	Dante Porzilli	9/12/12	Rata	9/13/12	10:10	Rata 9/13/12					

0007

USEPA - CLP

COVER PAGE

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: _____ SDG No.: MBA305

SOW No.: ISM01.3

EPA Sample No.	Lab Sample ID
MBA305	0016484-01
MBA306	0016484-02
MBA306D	2090170-DUP1
MBA306S	2090170-MS1
MBA307	0016484-03

		ICP-AES	ICP-MS
Were ICP-AES and ICP interelement corrections applied?	(Yes/No)		
Were ICP-AES and ICP background corrections applied?	(Yes/No)		
If yes, were raw data generated before application of background corrections?	(Yes/No)		

The laboratory did not receive any instructions with this SDG to modify the SOW standard laboratory sample preparation procedures (e.g., subsampling). To aid in the determination of data usability with respect to project decisions, any modifications performed are described below.

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Laxmi Teerupalli

Date: 09/26/2012 Title: QA Officer

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBA305

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Matrix: Water Lab Sample ID: 0016484-01

% Solids: Date Received: 09/13/2012

Concentration Units (**ug/L**, **ug**, or **mg/kg** dry weight): ug/L

CAS NO.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.067	J		CV

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: NO

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBA306

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Matrix: Water Lab Sample ID: 0016484-02

% Solids: Date Received: 09/13/2012

Concentration Units (**ug/L**, **ug**, or **mg/kg** dry weight): ug/L

CAS NO.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.77			CV

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: NO

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBA307

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Matrix: Water Lab Sample ID: 0016484-03

% Solids: Date Received: 09/13/2012

Concentration Units (**ug/L**, **ug**, or **mg/kg** dry weight): ug/L

CAS NO.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.30			CV

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: NO

Comments:

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: _____ SDG No.: MBA305

Initial Calibration Verification Source: QATS, Lot: A202021

Continuing Calibration Verification Source: A4, Lot: A202027

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	4.00000	4.6	114	5.00000	5.0	100	5.0	101	CV

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Initial Calibration Verification Source: QATS, Lot: A202021

Continuing Calibration Verification Source: A4, Lot: A202027

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury				5.00000	5.1	102	5.2	103	CV

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

3-IN
BLANKS

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Preparation Blank Matrix (soil/water/wipe/filter): Water

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): ug/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.027	J	0.018	J	0.020	J	0.20	U	0.20	U	CV

USEPA - CLP

3-IN
BLANKS

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Preparation Blank Matrix (soil/water/wipe/filter): Water

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): ug/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury			0.20	U							CV

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBA306S

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Matrix: Water

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75-125	1.6		0.77		1.00	83		CV

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

MBA306D

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Matrix: Water

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	0.20	0.77		0.77		0		CV

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Instrument Type: CV Instrument ID: A-FIMS100 Date: 01/11/2012

Preparation Method: 7470A

Concentration Units (ug/L, mg/kg, or ug): ug/L

Analyte	Wavelength/Mass	MDL
Mercury	253.70 nm	0.016

Comments:

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Preparation Method: 7470A

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
S0	09/24/2012	50.00	50.00
S0.2	09/24/2012	50.00	50.00
S0.5	09/24/2012	50.00	50.00
S1.0	09/24/2012	50.00	50.00
S2.0	09/24/2012	50.00	50.00
S5.0	09/24/2012	50.00	50.00
S10.0	09/24/2012	50.00	50.00
ICV	09/24/2012	50.00	50.00
ICB	09/24/2012	50.00	50.00
CCVN1	09/24/2012	50.00	50.00
CCBN1	09/24/2012	50.00	50.00
PBW14	09/24/2012	50.00	50.00
MBA305	09/24/2012	50.00	50.00
MBA306	09/24/2012	50.00	50.00
MBA306D	09/24/2012	50.00	50.00
MBA306S	09/24/2012	50.00	50.00
MBA307	09/24/2012	50.00	50.00
CCVN2	09/24/2012	50.00	50.00
CCBN2	09/24/2012	50.00	50.00
CCVN3	09/24/2012	50.00	50.00
CCBN3	09/24/2012	50.00	50.00
CCVN4	09/24/2012	50.00	50.00
CCBN4	09/24/2012	50.00	50.00

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Instrument ID: A-FIMS100 Analysis Method: CV

Start Date: 09/24/2012 End Date: 09/24/2012

EPA Sample NO.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	CN		
S0	1.0	1726															X											
S0.2	1.0	1727															X											
S0.5	1.0	1728															X											
S1.0	1.0	1730															X											
S2.0	1.0	1731															X											
S5.0	1.0	1732															X											
S10.0	1.0	1734															X											
ICV	1.0	1735															X											
ICB	1.0	1737															X											
CCVN1	1.0	1738															X											
CCBN1	1.0	1739															X											
ZZZZZZ	1.0	1741																										
ZZZZZZ	1.0	1742																										
ZZZZZZ	1.0	1743																										
ZZZZZZ	1.0	1744																										
ZZZZZZ	1.0	1746																										
PBW14	1.0	1747															X											
MBA305	1.0	1748															X											
MBA306	1.0	1750															X											
MBA306D	1.0	1751															X											
MBA306S	1.0	1752															X											
MBA307	1.0	1754															X											
ZZZZZZ	1.0	1755																										
ZZZZZZ	1.0	1756																										
ZZZZZZ	1.0	1758																										
ZZZZZZ	1.0	1759																										
CCVN2	1.0	1800															X											
CCBN2	1.0	1802															X											
ZZZZZZ	1.0	1803																										
ZZZZZZ	1.0	1804																										
ZZZZZZ	1.0	1806																										
ZZZZZZ	1.0	1807																										
ZZZZZZ	1.0	1808																										
ZZZZZZ	1.0	1810																										
ZZZZZZ	1.0	1811																										
ZZZZZZ	1.0	1812																										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Instrument ID: A-FIMS100 Analysis Method: CV

Start Date: 09/24/2012 End Date: 09/24/2012

EPA Sample NO.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	CN		
ZZZZZZ	1.0	1814																										
ZZZZZZ	1.0	1815																										
ZZZZZZ	1.0	1816																										
ZZZZZZ	1.0	1818																										
ZZZZZZ	1.0	1819																										
ZZZZZZ	1.0	1820																										
ZZZZZZ	1.0	1821																										
CCVN3	1.0	1823															X											
CCBN3	1.0	1824															X											
ZZZZZZ	1.0	1825																										
ZZZZZZ	1.0	1827																										
ZZZZZZ	1.0	1828																										
ZZZZZZ	1.0	1829																										
ZZZZZZ	1.0	1831																										
ZZZZZZ	1.0	1832																										
ZZZZZZ	1.0	1833																										
ZZZZZZ	1.0	1835																										
ZZZZZZ	1.0	1836																										
ZZZZZZ	1.0	1837																										
ZZZZZZ	1.0	1839																										
ZZZZZZ	1.0	1840																										
ZZZZZZ	1.0	1841																										
ZZZZZZ	1.0	1843																										
ZZZZZZ	1.0	1844																										
CCVN4	1.0	1845															X											
CCBN4	1.0	1847															X											

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Instrument ID: A-FIMS100 Start Date: 09/24/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.0	0.0010450		0.20	0.205732	-3	0.50	0.505014	-1

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Instrument ID: A-FIMS100 Start Date: 09/24/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.0	1.01028	-1	2.0	2.00945	0	5.0	4.94431	1

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 42822 Mod. Ref. No.: SDG No.: MBA305

Instrument ID: A-FIMS100 Start Date: 09/24/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	10.0	10.0242	0						

Control Limits +/- 30%

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281) 292-5277
www.a4scientific.com

INSTRUMENT RUN-LOG

Instrument:	A-FIMS100	***Sequence:***	2I24005
		Logbook RCN #:	938-10202011
		Logbook Page No(s).:	53
Start Date:	09/24/2012 17:26	***Analyst/Date:***	SM 09/24/2012
End Date:	09/24/2012 18:47	***Reviewer/Date:***	MM 09/24/2012

File	Analyzed	Instrument	Lab Sample	Client Sample	Dil	STD ID / Comments
2I24005-001	09/24/2012 17:26	A-FIMS100	2I24005-CAL1	S0	1	
2I24005-002	09/24/2012 17:27	A-FIMS100	2I24005-CAL2	S0.2	1	
2I24005-003	09/24/2012 17:28	A-FIMS100	2I24005-CAL3	S0.5	1	
2I24005-004	09/24/2012 17:30	A-FIMS100	2I24005-CAL4	S1.0	1	
2I24005-005	09/24/2012 17:31	A-FIMS100	2I24005-CAL5	S2.0	1	
2I24005-006	09/24/2012 17:32	A-FIMS100	2I24005-CAL6	S5.0	1	
2I24005-007	09/24/2012 17:34	A-FIMS100	2I24005-CAL7	S10.0	1	
2I24005-008	09/24/2012 17:35	A-FIMS100	2I24005-ICV1	ICV	1	
2I24005-009	09/24/2012 17:37	A-FIMS100	2I24005-ICB1	ICB	1	
2I24005-010	09/24/2012 17:38	A-FIMS100	2I24005-CCV1	CCVN1	1	
2I24005-011	09/24/2012 17:39	A-FIMS100	2I24005-CCB1	CCBN1	1	
2I24005-012	09/24/2012 17:41	A-FIMS100	2I24005-IBL1	ZZZZZZ	1	
2I24005-013	09/24/2012 17:42	A-FIMS100	2I24005-IBL2	ZZZZZZ	1	
2I24005-014	09/24/2012 17:43	A-FIMS100	2I24005-IBL3	ZZZZZZ	1	
2I24005-015	09/24/2012 17:44	A-FIMS100	2I24005-IBL4	ZZZZZZ	1	
2I24005-016	09/24/2012 17:46	A-FIMS100	2I24005-IBL5	ZZZZZZ	1	
2I24005-017	09/24/2012 17:47	A-FIMS100	2090170-BLK1	PBW14	1	
2I24005-018	09/24/2012 17:48	A-FIMS100	0016484-01	MBA305	1	
2I24005-019	09/24/2012 17:50	A-FIMS100	0016484-02	MBA306	1	
2I24005-020	09/24/2012 17:51	A-FIMS100	2090170-DUP1	MBA306D	1	
2I24005-021	09/24/2012 17:52	A-FIMS100	2090170-MS1	MBA306S	1	
2I24005-022	09/24/2012 17:54	A-FIMS100	0016484-03	MBA307	1	
2I24005-023	09/24/2012 17:55	A-FIMS100	0016526-01	MJS8X9	1	
2I24005-024	09/24/2012 17:56	A-FIMS100	0016526-02	MJS8Y3	1	
2I24005-025	09/24/2012 17:58	A-FIMS100	0016526-03	MJS908	1	
2I24005-026	09/24/2012 17:59	A-FIMS100	0016527-01	MJS905	1	
2I24005-027	09/24/2012 18:00	A-FIMS100	2I24005-CCV2	CCVN2	1	
2I24005-028	09/24/2012 18:02	A-FIMS100	2I24005-CCB2	CCBN2	1	
2I24005-029	09/24/2012 18:03	A-FIMS100	0016527-02	MJS910	1	
2I24005-030	09/24/2012 18:04	A-FIMS100	0016528-01	MJS8Y0	1	
2I24005-031	09/24/2012 18:06	A-FIMS100	0016528-02	MJS8Y4	1	
2I24005-032	09/24/2012 18:07	A-FIMS100	0016528-03	MJS8Y5	1	
2I24005-033	09/24/2012 18:08	A-FIMS100	0016528-04	MJS909	1	
2I24005-034	09/24/2012 18:10	A-FIMS100	2I24005-IBL6	ZZZZZZ	1	

A4 Scientific
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INSTRUMENT RUN-LOG

Instrument:	A-FIMS100	***Sequence:***	2I24005
		Logbook RCN #:	938-10202011
		Logbook Page No(s).:	53
Start Date:	09/24/2012 17:26	***Analyst/Date:***	09/24/2012
End Date:	09/24/2012 18:47	***Reviewer/Date:***	09/24/2012

File	Analyzed	Instrument	Lab Sample	Client Sample	Dil	STD ID / Comments
2I24005-035	09/24/2012 18:11	A-FIMS100	0016529-01	MJS911	1	
2I24005-036	09/24/2012 18:12	A-FIMS100	2I24005-IBL7	ZZZZZZ	1	
2I24005-037	09/24/2012 18:14	A-FIMS100	2I24005-IBL8	ZZZZZZ	1	
2I24005-038	09/24/2012 18:15	A-FIMS100	2090182-BLK1	PBW15	1	
2I24005-039	09/24/2012 18:16	A-FIMS100	0016525-01	MBAG02	1	
2I24005-040	09/24/2012 18:18	A-FIMS100	0016525-02	MBAG03	1	
2I24005-041	09/24/2012 18:19	A-FIMS100	0016532-01	MBAG05	1	
2I24005-042	09/24/2012 18:20	A-FIMS100	0016532-03	MBAG07	1	
2I24005-043	09/24/2012 18:21	A-FIMS100	2090182-DUP1	MBAG07D	1	
2I24005-044	09/24/2012 18:23	A-FIMS100	2I24005-CCV3	CCVN3	1	
2I24005-045	09/24/2012 18:24	A-FIMS100	2I24005-CCB3	CCBN3	1	
2I24005-046	09/24/2012 18:25	A-FIMS100	2090182-MS1	MBAG07S	1	
2I24005-047	09/24/2012 18:27	A-FIMS100	0016532-02	MBAG06	1	
2I24005-048	09/24/2012 18:28	A-FIMS100	0016532-04	MBAG08	1	
2I24005-049	09/24/2012 18:29	A-FIMS100	0016532-05	MBAG09	1	
2I24005-050	09/24/2012 18:31	A-FIMS100	0016532-06	MBAG10	1	
2I24005-051	09/24/2012 18:32	A-FIMS100	0016532-07	MBAJT1	1	
2I24005-052	09/24/2012 18:33	A-FIMS100	0016532-08	MBAJT2	1	
2I24005-053	09/24/2012 18:35	A-FIMS100	0016532-09	MBAJT3	1	
2I24005-054	09/24/2012 18:36	A-FIMS100	0016541-01	MBAJT5	1	
2I24005-055	09/24/2012 18:37	A-FIMS100	0016541-02	MBAJT6	1	
2I24005-056	09/24/2012 18:39	A-FIMS100	0016541-03	MBAJT7	1	
2I24005-057	09/24/2012 18:40	A-FIMS100	0016541-04	MBAJT8	1	
2I24005-058	09/24/2012 18:41	A-FIMS100	0016541-05	MBAJT9	1	
2I24005-059	09/24/2012 18:43	A-FIMS100	0016541-06	MBAJW0	1	
2I24005-060	09/24/2012 18:44	A-FIMS100	0016541-07	MBAJW1	1	
2I24005-061	09/24/2012 18:45	A-FIMS100	2I24005-CCV4	CCVN4	1	
2I24005-062	09/24/2012 18:47	A-FIMS100	2I24005-CCB4	CCBN4	1	

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	**Instrument Run Log-Mercury Analyzer** Instrument ID: **A-FIMS100**			
Effective	Area	Type	Number-Version	RCN
03-Feb-2010	**MET**	**FORM**	**2FORM02-B**	**938-10202011**

BATCHES(S): 2090170, 2090182 SEQUENCE: 2124005 CALIBRATION: –

START DATE: 09/24/12 START TIME: 17:26 END DATE: 09/24/12 END TIME: 18:47

ANALYTICAL METHOD: TSM013 SOP: 2SOP18-C

SnCl2 ID: 969-366-12 3% HCl ID: 969-365-12

RUN #	LAB SAMPLE ID	CLIENT SAMPLE ID	DIL	STANDARDS ID & COMMENTS
See attached computer generated results for the samples that we have analyzed:-				
	(i)	0016484-01	1003	
	(ii)	0016526-01	1003	
	(iii)	0016527-01	1002	
	(iv)	0016528-01	1004	
	(v)	0016529-01		
	(vi)	0016525-01	1002	
	(vii)	0016532-01	1009	
	(viii)	0016541-01	1007	

09/24/12

NOTES :

ANALYST/DATE: 09/24/2012 REVIEWER/DATE: 09/24/2012

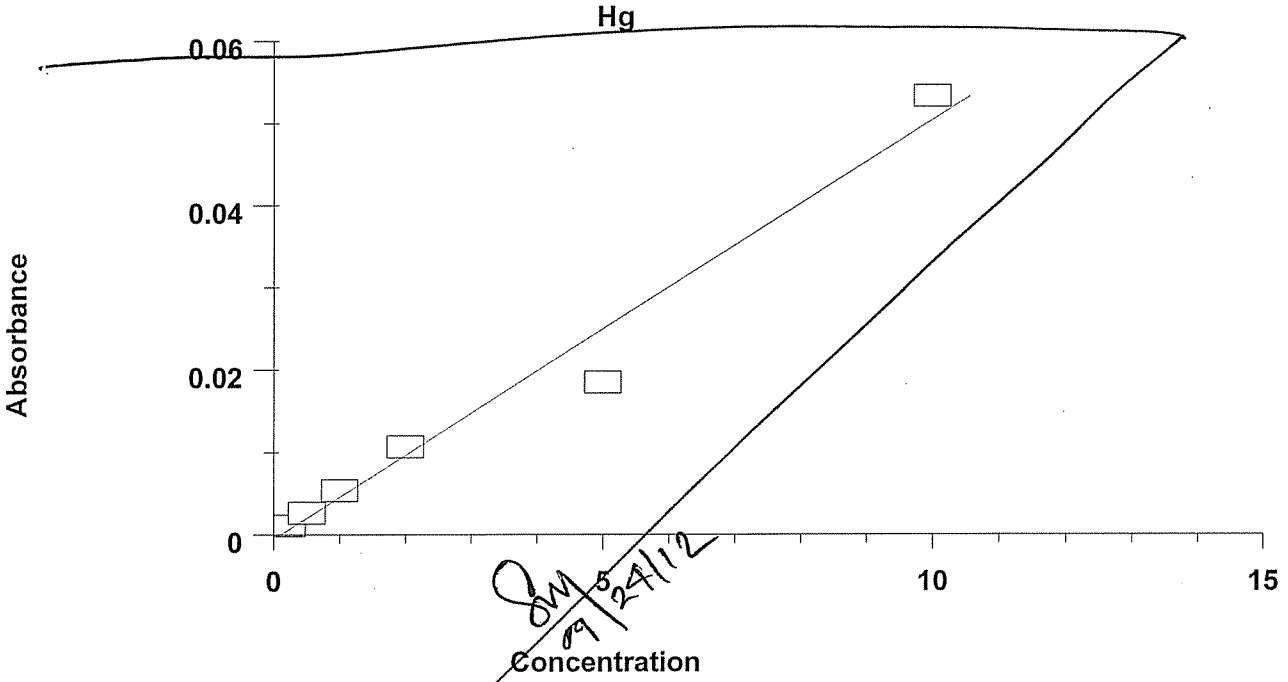
Sample Information File C:\AAUSER\SAMPINFO\2I24005.SIF

Description : Mercury Analysis-A-FIMS100
Batch ID : 2I24005
Volume Units :
Weight Units :
Analyst : SM
Sample Volume : 0.00

AS Loc	Sample ID	Sample Weight	Sample Units	User Dilution	Remarks
9	2I24005-IBL1 @ ZZZZZZ				
10	2I24005-IBL2 @ ZZZZZZ				
11	2I24005-IBL3 @ ZZZZZZ				
12	2I24005-IBL4 @ ZZZZZZ				
13	2I24005-IBL5 @ ZZZZZZ				
14	2090170-BLK1 @ PBW14				
15	0016484-01 @ MBA305				
16	0016484-02 @ MBA306				
17	2090170-DUP1 @ MBA306D				
18	2090170-MS1 @ MBA306S				
19	0016484-03 @ MBA307				
20	0016526-01 @ MJS8X9				
21	0016526-02 @ MJS8Y3				
22	0016526-03 @ MJS908				
23	0016527-01 @ MJS905				
24	0016527-02 @ MJS910				
25	0016528-01 @ MJS8Y0				
26	0016528-02 @ MJS8Y4				
27	0016528-03 @ MJS8Y5				
28	0016528-04 @ MJS909				
29	~~0016529-01 @ MJS911~~				2I24005-IBL6 @ ZZZZZZ
30	~~2I24005-IBL6 @ ZZZZZZ~~				0016529-01 @ MJS911
31	2I24005-IBL7 @ ZZZZZZ				
32	2I24005-IBL8 @ ZZZZZZ				
33	2090182-BLK1 @ PBW15				
34	0016525-01 @ MBAG02				
35	0016525-02 @ MBAG03				
36	0016532-01 @ MBAG05				
37	~~0016532-02 @ MBAG06~~				0016532-03 @ MBAG07
38	~~0016532-03 @ MBAG07~~				2090182-DUP1 @ MBAG07D
39	~~2I24005-DUP1 @ MBAG07D~~				2090182-MS1 @ MBAG07S
40	~~2I24005-MS1 @ MBAG07S~~				0016532-02 @ MBAG06
41	0016532-04 @ MBAG08				
42	0016532-05 @ MBAG09				
43	0016532-06 @ MBAG10				
44	0016532-07 @ MBAJT1				
45	0016532-08 @ MBAJT2				
46	0016532-09 @ MBAJT3				
47	0016541-01 @ MBAJT5				
48	0016541-02 @ MBAJT6				
49	0016541-03 @ MBAJT7				
50	0016541-04 @ MBAJT8				
51	0016541-05 @ MBAJT9				
52	0016541-06 @ MBAJW0				
53	0016541-07 @ MBAJW1				
54	2I24005-IBL9 @ ZZZZZZ				
55	2I24005-IBLA @ ZZZZZZ				
56	2I24005-IBLB @ ZZZZZZ				
57	2I24005-IBLC @ ZZZZZZ				
58	2I24005-IBLD @ ZZZZZZ				
59	2I24005-IBLE @ ZZZZZZ				
60	2I24005-IBLF @ ZZZZZZ				
61	2I24005-IBLG @ ZZZZZZ				

SM 09/24/2012

62 2I24005-IBLH @ ZZZZZZ



SW 09/24/12

Correlation coefficient for [Hg] is less than the specified (0.987518).
System continuing with sample measurements.

==========

Element: Hg Seq. No.: 12 AS Loc.: 8 Date: 09/24/2012
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.9382	4.9382	0.0246	0.0824	0.0248	05:20:09	No
2	4.9439	4.9439	0.0246	0.0816	0.0249	05:20:38	No
Mean:	4.9411	4.9411	0.0246				
SD :	0.004038	0.004038	0.0000				
%RSD:							

QC failed, value greater than upper limit for Hg.
Current analysis method stopped.

==========

Method Name: HG-ISM01.3
Method Description: MERCURY ANALYSIS-ISM01.3
Element: Hg

Date: 09/24/2012
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 2I24005.SIF Results Data Set Name: 2I24005

==========

Element: Hg Seq. No.: 13 AS Loc.: 1 Date: 09/24/2012
Sample ID: S0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

==========

Method Name: HG-ISM01.3
Method Description: MERCURY ANALYSIS-ISM01.3
Element: Hg

Date: 09/24/2012
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 2I24005.SIF Results Data Set Name: 2I24005

==========

Element: Hg Seq. No.: 13 AS Loc.: 1 Date: 09/24/2012
Sample ID: S0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0001	-0.0001	0.0001	05:25:49	No
2			0.0000	-0.0004	0.0000	05:26:18	No
Mean:			0.0001				
SD :			0.0000				
%RSD:			67.6133				

Auto-zero performed.

==========

Element: Hg Seq. No.: 14 AS Loc.: 2 Date: 09/24/2012
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0012	0.0042	0.0013	05:27:08	No
2			0.0012	0.0040	0.0013	05:27:37	No
Mean:			0.0012				
SD :			0.0000				
%RSD:			0.4699				

[Hg] Standard number 1 applied. [0.20000]
Correlation Coefficient: 1.00000 Slope: 0.00595
Intercept : 0.00000

==========

Element: Hg Seq. No.: 15 AS Loc.: 3 Date: 09/24/2012
Sample ID: S0.5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0028	0.0094	0.0029	05:28:28	No
2			0.0028	0.0092	0.0029	05:28:57	No
Mean:			0.0028				
SD :			0.0000				
%RSD:			0.3661				

[Hg] Standard number 2 applied. [0.50000]
Correlation Coefficient: 0.99972 Slope: 0.00564
Intercept : 0.00002

==========

Element: Hg Seq. No.: 16 AS Loc.: 4 Date: 09/24/2012
Sample ID: S1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0056	0.0187	0.0057	05:29:47	No
2			0.0055	0.0189	0.0056	05:30:16	No
Mean:			0.0056				
SD :			0.0001				
%RSD:			1.1629				

[Hg] Standard number 3 applied. [1.0000]
Correlation Coefficient: 0.99991 Slope: 0.00557
Intercept : 0.00004

==========

Element: Hg Seq. No.: 17 AS Loc.: 5 Date: 09/24/2012

Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0110	0.0373	0.0111	05:31:07	No
2			0.0111	0.0371	0.0111	05:31:36	No
Mean:			0.0111				
SD :			0.0000				
%RSD:			0.2184				

[Hg] Standard number 4 applied. [2.0000]
Correlation Coefficient: 0.99997 Slope: 0.00551
Intercept : 0.00005

Element: Hg Seq. No.: 18 AS Loc.: 6 Date: 09/24/2012
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0271	0.0903	0.0272	05:32:26	No
2			0.0271	0.0899	0.0272	05:32:55	No
Mean:			0.0271				
SD :			0.0000				
%RSD:							

[Hg] Standard number 5 applied. [5.0000]
Correlation Coefficient: 0.99997 Slope: 0.00541
Intercept : 0.00012

Element: Hg Seq. No.: 19 AS Loc.: 7 Date: 09/24/2012
Sample ID: S10.0

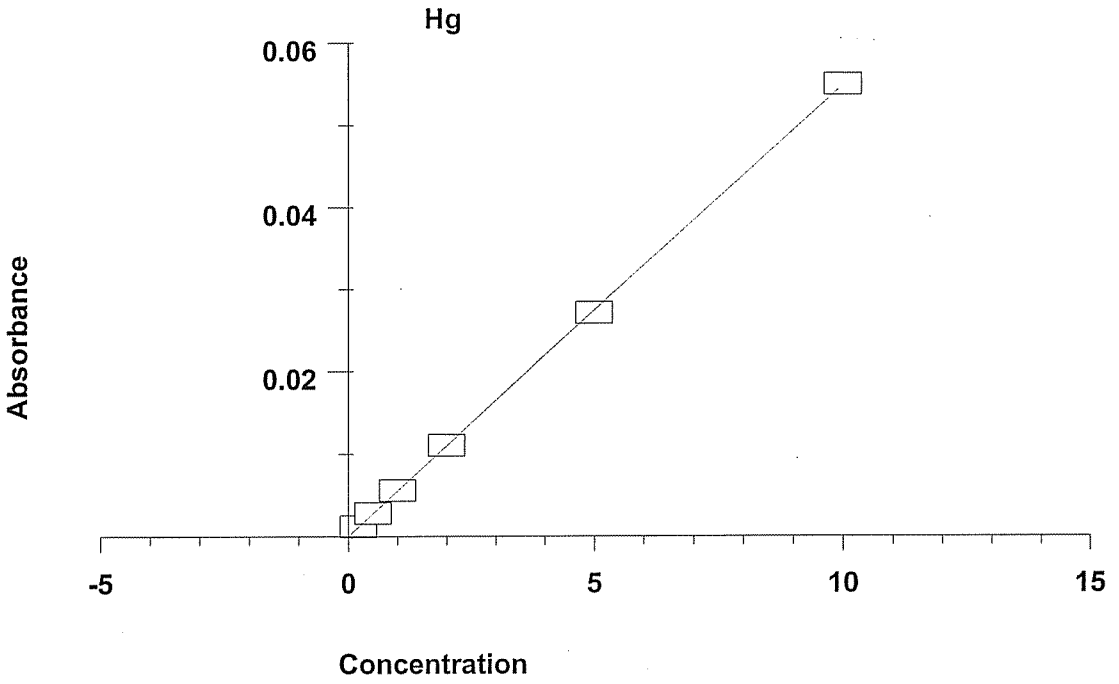
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0554	0.1777	0.0555	05:33:46	No
2			0.0544	0.1784	0.0545	05:34:15	No
Mean:			0.0549				
SD :			0.0007				
%RSD:			1.3052				

[Hg] Standard number 6 applied. [10.000]
Correlation Coefficient: 0.99997 Slope: 0.00548
Intercept : 0.00005

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
S0	0.0001	-----	----	----	----
S0.2	0.0012	0.20000	0.20837	0.000006	0.5
S0.5	0.0028	0.50000	0.50768	0.000010	0.4
S1.0	0.0056	1.00000	1.0126	0.000065	1.2
S2.0	0.0111	2.00000	2.0115	0.000024	0.2
S5.0	0.0271	5.00000	4.9453	0.000024	----
S10.0	0.0549	10.00000	10.023	0.000717	1.3

Correlation Coefficient: 0.99997 Slope: 0.00548 Intercept: 0.0000



==========

Element: Hg Seq. No.: 20 AS Loc.: 8 Date: 09/24/2012
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.5602	4.5602	0.0250	0.0832	0.0251	05:35:10	No
2	4.5648	4.5648	0.0250	0.0828	0.0251	05:35:39	No
Mean:	4.5625	4.5625	0.0250				
SD :	0.003229	0.003229	0.0000				
%RSD:							

QC value within specified limits.

==========

Element: Hg Seq. No.: 21 AS Loc.: 1 Date: 09/24/2012
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02710	0.02710	0.0002	0.0005	0.0003	05:36:32	No
2	0.02687	0.02687	0.0002	0.0005	0.0003	05:37:01	No
Mean:	0.02698	0.02698	0.0002				
SD :	0.000163	0.000163	0.0000				
%RSD:	0.6	0.6	0.4564				

QC value within specified limits.

==========

Element: Hg Seq. No.: 22 AS Loc.: 6 Date: 09/24/2012
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.0374	5.0374	0.0276	0.0896	0.0277	05:37:53	No
2	4.9471	4.9471	0.0271	0.0893	0.0272	05:38:22	No
Mean:	4.9922	4.9922	0.0274				
SD :	0.063837	0.063837	0.0003				
%RSD:	1.3	1.3	1.2765				

QC value within specified limits.

Element: Hg Seq. No.: 23 AS Loc.: 1 Date: 09/24/2012
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01730	0.01730	0.0001	0.0006	0.0002	05:39:14	No
2	0.01813	0.01813	0.0001	0.0008	0.0002	05:39:43	No
Mean:	0.01771	0.01771	0.0001				
SD :	0.000585	0.000585	0.0000				
%RSD:	3.3	3.3	2.2096				

QC value within specified limits.

Element: Hg Seq. No.: 24 AS Loc.: 9 Date: 09/24/2012
Sample ID: 2I24005-IBL1 @ ZZZZZZ

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.1803	2.1803	0.0120	0.0404	0.0121	05:40:33	No
2	2.1943	2.1943	0.0121	0.0396	0.0121	05:41:02	No
Mean:	2.1873	2.1873	0.0120				
SD :	0.009834	0.009834	0.0001				
%RSD:	0.4	0.4	0.4478				

Element: Hg Seq. No.: 25 AS Loc.: 10 Date: 09/24/2012
Sample ID: 2I24005-IBL2 @ ZZZZZZ

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.80178	0.80178	0.0044	0.0149	0.0045	05:41:52	No
2	0.78642	0.78642	0.0044	0.0150	0.0044	05:42:21	No
Mean:	0.79410	0.79410	0.0044				
SD :	0.010861	0.010861	0.0001				
%RSD:	1.4	1.4	1.3527				

Element: Hg Seq. No.: 26 AS Loc.: 11 Date: 09/24/2012
Sample ID: 2I24005-IBL3 @ ZZZZZZ

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.1166	2.1166	0.0116	0.0384	0.0117	05:43:11	No
2	2.1129	2.1129	0.0116	0.0382	0.0117	05:43:40	No
Mean:	2.1147	2.1147	0.0116				
SD :	0.002670	0.002670	0.0000				
%RSD:	0.1	0.1	0.1257				

Element: Hg Seq. No.: 27 AS Loc.: 12 Date: 09/24/2012
Sample ID: 2I24005-IBL4 @ ZZZZZZ

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.3759	2.3759	0.0131	0.0438	0.0131	05:44:30	No
2	2.3433	2.3433	0.0129	0.0434	0.0129	05:44:59	No
Mean:	2.3596	2.3596	0.0130				
SD :	0.023097	0.023097	0.0001				
%RSD:	1.0	1.0	0.9752				

Element: Hg Seq. No.: 28 AS Loc.: 13 Date: 09/24/2012
Sample ID: 2I24005-IBL5 @ ZZZZZZ

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01510	0.01510	0.0001	0.0002	0.0002	05:45:49	No
2	0.02303	0.02303	0.0002	0.0011	0.0002	05:46:18	No

Mean:	0.01906	0.01906	0.0002
SD :	0.005603	0.005603	0.0000
%RSD:	29.4	29.4	20.1379

==========

Element: Hg Seq. No.: 29 AS Loc.: 14 Date: 09/24/2012
Sample ID: 2090170-BLK1 @ PBW14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01473	0.01473	0.0001	0.0005	0.0002	05:47:08	No
2	0.00385	0.00385	0.0001	0.0004	0.0001	05:47:37	No
Mean:	0.00929	0.00929	0.0001				
SD :	0.007692	0.007692	0.0000				
%RSD:	82.8	82.8	42.6206				

==========

Element: Hg Seq. No.: 30 AS Loc.: 15 Date: 09/24/2012
Sample ID: 0016484-01 @ MBA305

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.06611	0.06611	0.0004	0.0017	0.0005	05:48:27	No
2	0.06780	0.06780	0.0004	0.0016	0.0005	05:48:56	No
Mean:	0.06696	0.06696	0.0004				
SD :	0.001198	0.001198	0.0000				
%RSD:	1.8	1.8	1.5825				

==========

Element: Hg Seq. No.: 31 AS Loc.: 16 Date: 09/24/2012
Sample ID: 0016484-02 @ MBA306

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.76761	0.76761	0.0043	0.0146	0.0043	05:49:46	No
2	0.76700	0.76700	0.0042	0.0147	0.0043	05:50:15	No
Mean:	0.76731	0.76731	0.0042				
SD :	0.000434	0.000434	0.0000				
%RSD:							

==========

Element: Hg Seq. No.: 32 AS Loc.: 17 Date: 09/24/2012
Sample ID: 2090170-DUP1 @ MBA306D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.76681	0.76681	0.0042	0.0145	0.0043	05:51:08	No
2	0.76652	0.76652	0.0042	0.0147	0.0043	05:51:37	No
Mean:	0.76667	0.76667	0.0042				
SD :	0.000205	0.000205	0.0000				
%RSD:							

==========

Element: Hg Seq. No.: 33 AS Loc.: 18 Date: 09/24/2012
Sample ID: 2090170-MS1 @ MBA306S

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.6495	1.6495	0.0091	0.0301	0.0091	05:52:27	No
2	1.6439	1.6439	0.0090	0.0303	0.0091	05:52:56	No
Mean:	1.6467	1.6467	0.0091				
SD :	0.003932	0.003932	0.0000				
%RSD:	0.2	0.2	0.2375				

==========

Element: Hg Seq. No.: 34 AS Loc.: 19 Date: 09/24/2012
Sample ID: 0016484-03 @ MBA307

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.30403	0.30403	0.0017	0.0060	0.0018	05:53:46	No
2	0.29883	0.29883	0.0017	0.0059	0.0018	05:54:15	No
Mean:	0.30143	0.30143	0.0017				
SD :	0.003673	0.003673	0.0000				
%RSD:	1.2	1.2	1.1841				

Element: Hg Seq. No.: 35 AS Loc.: 20 Date: 09/24/2012
Sample ID: 0016526-01 @ MJS8X9

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02686	0.02686	0.0002	0.0009	0.0003	05:55:05	No
2	0.02403	0.02403	0.0002	0.0009	0.0002	05:55:34	No
Mean:	0.02544	0.02544	0.0002				
SD :	0.002001	0.002001	0.0000				
%RSD:	7.9	7.9	5.8510				

Element: Hg Seq. No.: 36 AS Loc.: 21 Date: 09/24/2012
Sample ID: 0016526-02 @ MJS8Y3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02198	0.02198	0.0002	0.0009	0.0002	05:56:24	No
2	0.02048	0.02048	0.0002	0.0008	0.0002	05:56:53	No
Mean:	0.02123	0.02123	0.0002				
SD :	0.001058	0.001058	0.0000				
%RSD:	5.0	5.0	3.5284				

Element: Hg Seq. No.: 37 AS Loc.: 22 Date: 09/24/2012
Sample ID: 0016526-03 @ MJS908

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01980	0.01980	0.0002	0.0007	0.0002	05:57:42	No
2	0.01691	0.01691	0.0001	0.0006	0.0002	05:58:11	No
Mean:	0.01835	0.01835	0.0001				
SD :	0.002044	0.002044	0.0000				
%RSD:	11.1	11.1	7.5401				

Element: Hg Seq. No.: 38 AS Loc.: 23 Date: 09/24/2012
Sample ID: 0016527-01 @ MJS905

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01993	0.01993	0.0002	0.0007	0.0002	05:59:01	No
2	0.02059	0.02059	0.0002	0.0008	0.0002	05:59:30	No
Mean:	0.02026	0.02026	0.0002				
SD :	0.000470	0.000470	0.0000				
%RSD:	2.3	2.3	1.6185				

Element: Hg Seq. No.: 39 AS Loc.: 6 Date: 09/24/2012
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.0216	5.0216	0.0275	0.0913	0.0276	06:00:21	No
2	5.0656	5.0656	0.0278	0.0912	0.0279	06:00:50	No
Mean:	5.0436	5.0436	0.0277				
SD :	0.031083	0.031083	0.0002				

%RSD: 0.6 0.6 0.6152
QC value within specified limits.

==========
Element: Hg Seq. No.: 40 AS Loc.: 1 Date: 09/24/2012
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01975	0.01975	0.0002	0.0006	0.0002	06:01:42	No
2	0.01998	0.01998	0.0002	0.0007	0.0002	06:02:11	No
Mean:	0.01986	0.01986	0.0002				
SD :	0.000167	0.000167	0.0000				
%RSD:	0.8	0.8	0.5820				

QC value within specified limits.

==========
Element: Hg Seq. No.: 41 AS Loc.: 24 Date: 09/24/2012
Sample ID: 0016527-02 @ MJS910

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02465	0.02465	0.0002	0.0007	0.0003	06:03:03	No
2	0.02644	0.02644	0.0002	0.0007	0.0003	06:03:32	No
Mean:	0.02554	0.02554	0.0002				
SD :	0.001267	0.001267	0.0000				
%RSD:	5.0	5.0	3.6925				

==========
Element: Hg Seq. No.: 42 AS Loc.: 25 Date: 09/24/2012
Sample ID: 0016528-01 @ MJS8Y0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02967	0.02967	0.0002	0.0009	0.0003	06:04:21	No
2	0.02621	0.02621	0.0002	0.0008	0.0003	06:04:50	No
Mean:	0.02794	0.02794	0.0002				
SD :	0.002443	0.002443	0.0000				
%RSD:	8.7	8.7	6.6556				

==========
Element: Hg Seq. No.: 43 AS Loc.: 26 Date: 09/24/2012
Sample ID: 0016528-02 @ MJS8Y4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02366	0.02366	0.0002	0.0006	0.0002	06:05:40	No
2	0.02492	0.02492	0.0002	0.0007	0.0003	06:06:09	No
Mean:	0.02429	0.02429	0.0002				
SD :	0.000893	0.000893	0.0000				
%RSD:	3.7	3.7	2.7032				

==========
Element: Hg Seq. No.: 44 AS Loc.: 27 Date: 09/24/2012
Sample ID: 0016528-03 @ MJS8Y5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02622	0.02622	0.0002	0.0006	0.0003	06:06:59	No
2	0.01972	0.01972	0.0002	0.0007	0.0002	06:07:28	No
Mean:	0.02297	0.02297	0.0002				
SD :	0.004594	0.004594	0.0000				
%RSD:	20.0	20.0	14.4773				

==========
Element: Hg Seq. No.: 45 AS Loc.: 28 Date: 09/24/2012
Sample ID: 0016528-04 @ MJS909

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01687	0.01687	0.0001	0.0005	0.0002	06:08:18	No
2	0.01895	0.01895	0.0002	0.0006	0.0002	06:08:47	No
Mean:	0.01791	0.01791	0.0001				
SD :	0.001466	0.001466	0.0000				
%RSD:	8.2	8.2	5.4961				

Element: Hg Seq. No.: 46 AS Loc.: 29 Date: 09/24/2012
Sample ID: ~~0016529-01 @ MJS911~~ 2I24005-IBL6 @ ZZZZZZ

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.8779	2.8779	0.0158	0.0526	0.0159	06:09:37	No
2	2.8762	2.8762	0.0158	0.0521	0.0159	06:10:06	No
Mean:	2.8770	2.8770	0.0158				
SD :	0.001205	0.001205	0.0000				
%RSD:							

Element: Hg Seq. No.: 47 AS Loc.: 30 Date: 09/24/2012
Sample ID: ~~2I24005-IBL6 @ ZZZZZZ~~ 0016529-01 @ MJS911

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01960	0.01960	0.0002	0.0007	0.0002	06:10:55	No
2	0.01750	0.01750	0.0001	0.0006	0.0002	06:11:24	No
Mean:	0.01855	0.01855	0.0001				
SD :	0.001486	0.001486	0.0000				
%RSD:	8.0	8.0	5.4413				

Element: Hg Seq. No.: 48 AS Loc.: 31 Date: 09/24/2012
Sample ID: 2I24005-IBL7 @ ZZZZZZ

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.2236	2.2236	0.0122	0.0405	0.0123	06:12:14	No
2	2.1872	2.1872	0.0120	0.0404	0.0121	06:12:43	No
Mean:	2.2054	2.2054	0.0121				
SD :	0.025735	0.025735	0.0001				
%RSD:	1.2	1.2	1.1623				

Element: Hg Seq. No.: 49 AS Loc.: 32 Date: 09/24/2012
Sample ID: 2I24005-IBL8 @ ZZZZZZ

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00268	-0.00268	0.0000	0.0002	0.0001	06:13:36	No
2	-0.00388	-0.00388	0.0000	0.0001	0.0001	06:14:05	No
Mean:	-0.00328	-0.00328	0.0000				
SD :	0.000847	0.000847	0.0000				
%RSD:	25.8	25.8	15.4721				

Element: Hg Seq. No.: 50 AS Loc.: 33 Date: 09/24/2012
Sample ID: 2090182-BLK1 @ PBW15

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01301	0.01301	0.0001	0.0005	0.0002	06:14:54	No
2	0.02074	0.02074	0.0002	0.0007	0.0002	06:15:23	No
Mean:	0.01688	0.01688	0.0001				
SD :	0.005466	0.005466	0.0000				

%RSD: 32.4 32.4 21.3181

==========

Element: Hg Seq. No.: 51 AS Loc.: 34 Date: 09/24/2012
Sample ID: 0016525-01 @ MBAG02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01680	0.01680	0.0001	0.0005	0.0002	06:16:13	No
2	0.02008	0.02008	0.0002	0.0007	0.0002	06:16:42	No
Mean:	0.01844	0.01844	0.0001				
SD :	0.002322	0.002322	0.0000				
%RSD:	12.6	12.6	8.5379				

==========

Element: Hg Seq. No.: 52 AS Loc.: 35 Date: 09/24/2012
Sample ID: 0016525-02 @ MBAG03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03284	0.03284	0.0002	0.0008	0.0003	06:17:32	No
2	0.03139	0.03139	0.0002	0.0009	0.0003	06:18:01	No
Mean:	0.03211	0.03211	0.0002				
SD :	0.001028	0.001028	0.0000				
%RSD:	3.2	3.2	2.5152				

==========

Element: Hg Seq. No.: 53 AS Loc.: 36 Date: 09/24/2012
Sample ID: 0016532-01 @ MBAG05

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02376	0.02376	0.0002	0.0008	0.0002	06:18:50	No
2	0.02768	0.02768	0.0002	0.0010	0.0003	06:19:19	No
Mean:	0.02572	0.02572	0.0002				
SD :	0.002771	0.002771	0.0000				
%RSD:	10.8	10.8	8.0370				

==========

Element: Hg Seq. No.: 54 AS Loc.: 37 Date: 09/24/2012
Sample ID: ~~0016532-02 @ MBAG06~~ 0016532-03 @ MBAG07

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02810	0.02810	0.0002	0.0009	0.0003	06:20:09	No
2	0.02800	0.02800	0.0002	0.0008	0.0003	06:20:38	No
Mean:	0.02805	0.02805	0.0002				
SD :	0.000068	0.000068	0.0000				
%RSD:	0.2	0.2	0.1858				

==========

Element: Hg Seq. No.: 55 AS Loc.: 38 Date: 09/24/2012
Sample ID: ~~0016532-03 @ MBAG07~~ 2090182-DUP1 @ MBAG07D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03178	0.03178	0.0002	0.0010	0.0003	06:21:28	No
2	0.03532	0.03532	0.0002	0.0010	0.0003	06:21:57	No
Mean:	0.03355	0.03355	0.0002				
SD :	0.002505	0.002505	0.0000				
%RSD:	7.5	7.5	5.9199				

==========

Element: Hg Seq. No.: 56 AS Loc.: 6 Date: 09/24/2012
Sample ID: CCV

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	5.0322	5.0322	0.0276	0.0908	0.0277	06:22:48	No
2	5.1298	5.1298	0.0281	0.0915	0.0282	06:23:17	No
Mean:	5.0810	5.0810	0.0279				
SD :	0.068996	0.068996	0.0004				
%RSD:	1.4	1.4	1.3556				

QC value within specified limits.

==========

Element: Hg Seq. No.: 57 AS Loc.: 1 Date: 09/24/2012
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01077	0.01077	0.0001	0.0005	0.0002	06:24:09	No
2	0.01152	0.01152	0.0001	0.0006	0.0002	06:24:38	No
Mean:	0.01115	0.01115	0.0001				
SD :	0.000531	0.000531	0.0000				
%RSD:	4.8	4.8	2.6680				

QC value within specified limits.

==========

Element: Hg Seq. No.: 58 AS Loc.: 39 Date: 09/24/2012
Sample ID: ~~2I24005-DUP1 @ MBAG07D~~ 2090182-MS1 @ MBAG07S

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.1729	1.1729	0.0065	0.0211	0.0065	06:25:30	No
2	1.1496	1.1496	0.0063	0.0209	0.0064	06:25:59	No
Mean:	1.1613	1.1613	0.0064				
SD :	0.016509	0.016509	0.0001				
%RSD:	1.4	1.4	1.4110				

==========

Element: Hg Seq. No.: 59 AS Loc.: 40 Date: 09/24/2012
Sample ID: ~~2I24005-MS1 @ MBAG07S~~ 0016532-02 @ MBAG06

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02661	0.02661	0.0002	0.0008	0.0003	06:26:48	No
2	0.02412	0.02412	0.0002	0.0005	0.0002	06:27:17	No
Mean:	0.02536	0.02536	0.0002				
SD :	0.001760	0.001760	0.0000				
%RSD:	6.9	6.9	5.1572				

==========

Element: Hg Seq. No.: 60 AS Loc.: 41 Date: 09/24/2012
Sample ID: 0016532-04 @ MBAG08

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03196	0.03196	0.0002	0.0003	0.0003	06:28:07	No
2	0.04764	0.04764	0.0003	0.0010	0.0004	06:28:36	No
Mean:	0.03980	0.03980	0.0003				
SD :	0.011085	0.011085	0.0001				
%RSD:	27.8	27.8	22.8255				

==========

Element: Hg Seq. No.: 61 AS Loc.: 42 Date: 09/24/2012
Sample ID: 0016532-05 @ MBAG09

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05242	0.05242	0.0003	0.0009	0.0004	06:29:25	No
2	0.04265	0.04265	0.0003	0.0006	0.0004	06:29:54	No
Mean:	0.04753	0.04753	0.0003				
SD :	0.006909	0.006909	0.0000				

```
%RSD:      14.5       14.5   12.2728

==========================================================================================
Element: Hg    Seq. No.: 62       AS Loc.: 43   Date: 09/24/2012
Sample ID: 0016532-06 @ MBAG10
------------------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak      Time    Peak
 #     µg/L        µg/L       Signal    Area    Height            Stored
 1      0.02528   0.02528    0.0002   0.0004   0.0003   06:30:44  No
 2      0.02242   0.02242    0.0002   0.0005   0.0002   06:31:13  No
Mean:   0.02385   0.02385    0.0002
SD  :  0.002021  0.002021    0.0000
%RSD:       8.5        8.5    6.1964

==========================================================================================
Element: Hg    Seq. No.: 63       AS Loc.: 44   Date: 09/24/2012
Sample ID: 0016532-07 @ MBAJT1
------------------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak      Time    Peak
 #     µg/L        µg/L       Signal    Area    Height            Stored
 1      0.02403   0.02403    0.0002   0.0005   0.0002   06:32:02  No
 2      0.03008   0.03008    0.0002   0.0005   0.0003   06:32:31  No
Mean:   0.02705   0.02705    0.0002
SD  :  0.004280  0.004280    0.0000
%RSD:      15.8       15.8   11.9488

==========================================================================================
Element: Hg    Seq. No.: 64       AS Loc.: 45   Date: 09/24/2012
Sample ID: 0016532-08 @ MBAJT2
------------------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak      Time    Peak
 #     µg/L        µg/L       Signal    Area    Height            Stored
 1      0.03107   0.03107    0.0002   0.0006   0.0003   06:33:21  No
 2      0.03155   0.03155    0.0002   0.0006   0.0003   06:33:50  No
Mean:   0.03131   0.03131    0.0002
SD  :  0.000339  0.000339    0.0000
%RSD:       1.1        1.1    0.8460

==========================================================================================
Element: Hg    Seq. No.: 65       AS Loc.: 46   Date: 09/24/2012
Sample ID: 0016532-09 @ MBAJT3
------------------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak      Time    Peak
 #     µg/L        µg/L       Signal    Area    Height            Stored
 1      0.03220   0.03220    0.0002   0.0005   0.0003   06:34:40  No
 2      0.03975   0.03975    0.0003   0.0007   0.0003   06:35:09  No
Mean:   0.03597   0.03597    0.0002
SD  :  0.005335  0.005335    0.0000
%RSD:      14.8       14.8   11.9249

==========================================================================================
Element: Hg    Seq. No.: 66       AS Loc.: 47   Date: 09/24/2012
Sample ID: 0016541-01 @ MBAJT5
------------------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak      Time    Peak
 #     µg/L        µg/L       Signal    Area    Height            Stored
 1     -0.01484  -0.01484    0.0000  -0.0003   0.0000   06:35:59  No
 2     -0.01790  -0.01790   -0.0001  -0.0003   0.0000   06:36:28  No
Mean:  -0.01637  -0.01637    0.0000
SD  :  0.002167  0.002167    0.0000
%RSD:      13.2       13.2   28.4827

==========================================================================================
Element: Hg    Seq. No.: 67       AS Loc.: 48   Date: 09/24/2012
Sample ID: 0016541-02 @ MBAJT6
------------------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak      Time    Peak
```

#	µg/L	µg/L	Signal	Area	Height		Stored
1	0.02662	0.02662	0.0002	0.0005	0.0003	06:37:21	No
2	0.02760	0.02760	0.0002	0.0005	0.0003	06:37:50	No
Mean:	0.02711	0.02711	0.0002				
SD :	0.000691	0.000691	0.0000				
%RSD:	2.5	2.5	1.9268				

==========

Element: Hg Seq. No.: 68 AS Loc.: 49 Date: 09/24/2012
Sample ID: 0016541-03 @ MBAJT7

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02477	0.02477	0.0002	0.0006	0.0003	06:38:40	No
2	0.02815	0.02815	0.0002	0.0008	0.0003	06:39:09	No
Mean:	0.02646	0.02646	0.0002				
SD :	0.002394	0.002394	0.0000				
%RSD:	9.0	9.0	6.7967				

==========

Element: Hg Seq. No.: 69 AS Loc.: 50 Date: 09/24/2012
Sample ID: 0016541-04 @ MBAJT8

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03239	0.03239	0.0002	0.0007	0.0003	06:39:58	No
2	0.03926	0.03926	0.0003	0.0010	0.0003	06:40:27	No
Mean:	0.03582	0.03582	0.0002				
SD :	0.004861	0.004861	0.0000				
%RSD:	13.6	13.6	10.9026				

==========

Element: Hg Seq. No.: 70 AS Loc.: 51 Date: 09/24/2012
Sample ID: 0016541-05 @ MBAJT9

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04312	0.04312	0.0003	0.0011	0.0004	06:41:17	No
2	0.03738	0.03738	0.0003	0.0007	0.0003	06:41:46	No
Mean:	0.04025	0.04025	0.0003				
SD :	0.004061	0.004061	0.0000				
%RSD:	10.1	10.1	8.2861				

==========

Element: Hg Seq. No.: 71 AS Loc.: 52 Date: 09/24/2012
Sample ID: 0016541-06 @ MBAJW0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03425	0.03425	0.0002	0.0008	0.0003	06:42:36	No
2	0.03859	0.03859	0.0003	0.0009	0.0003	06:43:05	No
Mean:	0.03642	0.03642	0.0002				
SD :	0.003066	0.003066	0.0000				
%RSD:	8.4	8.4	6.7862				

==========

Element: Hg Seq. No.: 72 AS Loc.: 53 Date: 09/24/2012
Sample ID: 0016541-07 @ MBAJW1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05924	0.05924	0.0004	0.0014	0.0004	06:43:54	No
2	0.05599	0.05599	0.0004	0.0013	0.0004	06:44:23	No
Mean:	0.05762	0.05762	0.0004				
SD :	0.002293	0.002293	0.0000				
%RSD:	4.0	4.0	3.4545				

Element: Hg Seq. No.: 73 AS Loc.: 6 Date: 09/24/2012
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.1291	5.1291	0.0281	0.0926	0.0282	06:45:15	No
2	5.2137	5.2137	0.0286	0.0939	0.0287	06:45:44	No
Mean:	5.1714	5.1714	0.0284				
SD :	0.059835	0.059835	0.0003				
%RSD:	1.2	1.2	1.1551				

QC value within specified limits.

Element: Hg Seq. No.: 74 AS Loc.: 1 Date: 09/24/2012
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01260	0.01260	0.0001	0.0006	0.0002	06:46:36	No
2	0.01253	0.01253	0.0001	0.0006	0.0002	06:47:05	No
Mean:	0.01256	0.01256	0.0001				
SD :	0.000049	0.000049	0.0000				
%RSD:	0.4	0.4	0.2277				

QC value within specified limits.

Element: Hg Seq. No.: 75 AS Loc.: 54 Date: 09/24/2012
Sample ID: 2I24005-IBL9 @ ZZZZZZ

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04250	0.04250	0.0003	0.0010	0.0003	06:47:57	No
2	0.00299	0.00299	0.0001	0.0003	0.0001	06:48:26	No
Mean:	0.02274	0.02274	0.0002				
SD :	0.027936	0.027936	0.0002				
%RSD:	122.8	122.8	88.6737				

Element: Hg Seq. No.: 76 AS Loc.: 55 Date: 09/24/2012
Sample ID: 2I24005-IBLA @ ZZZZZZ

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

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BENCH SHEET - MERCURY CAL STANDARDS DIGESTION

CAL PREP ID -2I24005

CAL PREP ID -2I24005

MERCURY DIGESTION BY 7470A

Start Date: 09-24-12 Start Time: 10:00 End Date: 09-24-12 End Time: 12:30

Circle one: (Total) Ameanable/NA

Digestion Leader: [illegible]

Digestion Assistants: —

H2SO4 ID (Conc): A202042
HNO3 ID (Conc): A206001
Aquaregia ID: NA
KMnO4 ID : 969-268-12
K2S2O8 ID: 969-269-12

CAL STD. ID: 969-80-12
ICV ID: A111039
NaCl-H3NO.HCl ID: 969-270-12
Other ID: —

Thermometer ID: Spex-2
Temp. of Hot Block: 95

Spiked By: [illegible]

Lab Sample ID	Client Sample ID	Matrix	Initial pH	Sample Amount (mL)	Final Volume (ml)	H2S04 Added (mL)	HNO3 Added (mL)	Aquaregia Added (mL)	KMnO4 Added (uL)	K2S2O8 Added (uL)	NaCl-H3 NO.HCl Added (uL)	LCS/Spike Added (uL)	Other Added (uL)	Analysis	Digestion Comments
2I24005-CAL1	ICB/SO/CCB	Water	NA	50	50	2.5	1.25	11.8ml	7.5ml	4ml	3ml	NA	NA	NA	NA
2I24005-CAL2	50.2	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	10	↓	↓	↓
2I24005-CAL3	50.5	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	25	↓	↓	↓
2I24005-CAL4	51.0	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	50	↓	↓	↓
2I24005-CAL5	52.0	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	100	↓	↓	↓
2I24005-CAL6	55.0/ICV	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	250	↓	↓	↓
2I24005-CAL7	510.0	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	500	↓	↓	↓
2I24005-ICV1	ICV	WATER	↓	↓	↓	↓	↓	↓	↓	↓	↓	500	↓	↓	↓
															[illegible] 09/24/2012

Notes:

[illegible] 09/24/2012
Received for Analysis by / Date&Time

[illegible] 09/24/2012 16:00
Reviewed by / Date&Time

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BENCH SHEET - MERCURY SAMPLE DIGESTION

BATCH - 2090170

BATCH_2090170

MERCURY DIGESTION BY 7470A

Start Date: 09-24-12 Start Time: 10:00 End Date: 09-24-12 End Time: 12:30

Circle one: dissolved / Total / Ameanable/NA

Digestion Leader: AJ

Digestion Assistants: —

—

Spiked By: BM

H2SO4 ID (Conc): A202042
HNO3 ID (Conc): A206001
Aquaregia ID: —
KMnO4 ID : 969-268-12
K2S2O8 ID: 969-269-12

LCS ID: NA
Matrix Spike Sol. ID: 969-80-12
NaCl-H3NO.HCl ID: 969-270-12
Other ID: —
CAL PREP ID: 2I24005

Thermometer ID: Spec-2
Temp. of Hot Block: 95

Lab Sample ID	*Client Sample ID*	*Matrix*	*Initial pH*	*Sample Amount (mL)*	*Final Volume (ml)*	*H2S04 Added (mL)*	*HNO3 Added (mL)*	*Aquaregia Added (mL)*	*KMnO4 Added (uL)*	*K2S2O8 Added (uL)*	*NaCl-H3 NO.HCl Added (uL)*	*LCS/Spike Added (uL)*	*Other Added (uL)*	Analysis	Digestion Comments
0016484-01	MBA305	Water	<2	50	50	2.5	1.5	NA	7.5ml	4ml	3ml	NA	NA	NA	NA
0016484-02	MBA306	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016484-03	MBA307	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016526-01	MJS8X9	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016526-02	MJS8Y3	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016526-03	MJS908	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016527-01	MJS905	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016527-02	MJS910	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016528-01	MJS8Y0	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016528-02	MJS8Y4	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016528-03	MJS8Y5	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016528-04	MJS909	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0016529-01	MJS911	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
2090170-BLK1	PBW14	Water	—	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	-
2090170-DUP1	MBA306D	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	0016484-02
2090170-MS1	MBA306S	Water	<2	↓	↓	↓	↓	↓	↓	↓	↓	50ul	↓	↓	0016484-02

Notes:

09-24-2012 14:00

Received for Analysis by / Date&Time

09/24/2012 16:00

Reviewed by / Date&Time

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INSTRUMENT RUN-LOG

Instrument:	A-FIMS100	***Sequence:***	2I24005
		Logbook RCN #:	938-10202011
		Logbook Page No(s).:	53
Start Date:	09/24/2012 17:26	***Analyst/Date:***	SM 09/24/2012
End Date:	09/24/2012 18:47	***Reviewer/Date:***	MM 09/24/2012

File	Analyzed	Instrument	Lab Sample	Client Sample	Dil	STD ID / Comments
2I24005-001	09/24/2012 17:26	A-FIMS100	2I24005-CAL1	S0	1	
2I24005-002	09/24/2012 17:27	A-FIMS100	2I24005-CAL2	S0.2	1	
2I24005-003	09/24/2012 17:28	A-FIMS100	2I24005-CAL3	S0.5	1	
2I24005-004	09/24/2012 17:30	A-FIMS100	2I24005-CAL4	S1.0	1	
2I24005-005	09/24/2012 17:31	A-FIMS100	2I24005-CAL5	S2.0	1	
2I24005-006	09/24/2012 17:32	A-FIMS100	2I24005-CAL6	S5.0	1	
2I24005-007	09/24/2012 17:34	A-FIMS100	2I24005-CAL7	S10.0	1	
2I24005-008	09/24/2012 17:35	A-FIMS100	2I24005-ICV1	ICV	1	
2I24005-009	09/24/2012 17:37	A-FIMS100	2I24005-ICB1	ICB	1	
2I24005-010	09/24/2012 17:38	A-FIMS100	2I24005-CCV1	CCVN1	1	
2I24005-011	09/24/2012 17:39	A-FIMS100	2I24005-CCB1	CCBN1	1	
2I24005-012	09/24/2012 17:41	A-FIMS100	2I24005-IBL1	ZZZZZZ	1	
2I24005-013	09/24/2012 17:42	A-FIMS100	2I24005-IBL2	ZZZZZZ	1	
2I24005-014	09/24/2012 17:43	A-FIMS100	2I24005-IBL3	ZZZZZZ	1	
2I24005-015	09/24/2012 17:44	A-FIMS100	2I24005-IBL4	ZZZZZZ	1	
2I24005-016	09/24/2012 17:46	A-FIMS100	2I24005-IBL5	ZZZZZZ	1	
2I24005-017	09/24/2012 17:47	A-FIMS100	2090170-BLK1	PBW14	1	
2I24005-018	09/24/2012 17:48	A-FIMS100	0016484-01	MBA305	1	
2I24005-019	09/24/2012 17:50	A-FIMS100	0016484-02	MBA306	1	
2I24005-020	09/24/2012 17:51	A-FIMS100	2090170-DUP1	MBA306D	1	
2I24005-021	09/24/2012 17:52	A-FIMS100	2090170-MS1	MBA306S	1	
2I24005-022	09/24/2012 17:54	A-FIMS100	0016484-03	MBA307	1	
2I24005-023	09/24/2012 17:55	A-FIMS100	0016526-01	MJS8X9	1	
2I24005-024	09/24/2012 17:56	A-FIMS100	0016526-02	MJS8Y3	1	
2I24005-025	09/24/2012 17:58	A-FIMS100	0016526-03	MJS908	1	
2I24005-026	09/24/2012 17:59	A-FIMS100	0016527-01	MJS905	1	
2I24005-027	09/24/2012 18:00	A-FIMS100	2I24005-CCV2	CCVN2	1	
2I24005-028	09/24/2012 18:02	A-FIMS100	2I24005-CCB2	CCBN2	1	
2I24005-029	09/24/2012 18:03	A-FIMS100	0016527-02	MJS910	1	
2I24005-030	09/24/2012 18:04	A-FIMS100	0016528-01	MJS8Y0	1	
2I24005-031	09/24/2012 18:06	A-FIMS100	0016528-02	MJS8Y4	1	
2I24005-032	09/24/2012 18:07	A-FIMS100	0016528-03	MJS8Y5	1	
2I24005-033	09/24/2012 18:08	A-FIMS100	0016528-04	MJS909	1	
2I24005-034	09/24/2012 18:10	A-FIMS100	2I24005-IBL6	ZZZZZZ	1	

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INSTRUMENT RUN-LOG

Instrument:	A-FIMS100	***Sequence:***	2I24005
		Logbook RCN #:	938-10202011
		Logbook Page No(s).:	53
Start Date:	09/24/2012 17:26	***Analyst/Date:***	09/24/2012
End Date:	09/24/2012 18:47	***Reviewer/Date:***	09/24/2012

File	Analyzed	Instrument	Lab Sample	Client Sample	Dil	STD ID / Comments
2I24005-035	09/24/2012 18:11	A-FIMS100	0016529-01	MJS911	1	
2I24005-036	09/24/2012 18:12	A-FIMS100	2I24005-IBL7	ZZZZZZ	1	
2I24005-037	09/24/2012 18:14	A-FIMS100	2I24005-IBL8	ZZZZZZ	1	
2I24005-038	09/24/2012 18:15	A-FIMS100	2090182-BLK1	PBW15	1	
2I24005-039	09/24/2012 18:16	A-FIMS100	0016525-01	MBAG02	1	
2I24005-040	09/24/2012 18:18	A-FIMS100	0016525-02	MBAG03	1	
2I24005-041	09/24/2012 18:19	A-FIMS100	0016532-01	MBAG05	1	
2I24005-042	09/24/2012 18:20	A-FIMS100	0016532-03	MBAG07	1	
2I24005-043	09/24/2012 18:21	A-FIMS100	2090182-DUP1	MBAG07D	1	
2I24005-044	09/24/2012 18:23	A-FIMS100	2I24005-CCV3	CCVN3	1	
2I24005-045	09/24/2012 18:24	A-FIMS100	2I24005-CCB3	CCBN3	1	
2I24005-046	09/24/2012 18:25	A-FIMS100	2090182-MS1	MBAG07S	1	
2I24005-047	09/24/2012 18:27	A-FIMS100	0016532-02	MBAG06	1	
2I24005-048	09/24/2012 18:28	A-FIMS100	0016532-04	MBAG08	1	
2I24005-049	09/24/2012 18:29	A-FIMS100	0016532-05	MBAG09	1	
2I24005-050	09/24/2012 18:31	A-FIMS100	0016532-06	MBAG10	1	
2I24005-051	09/24/2012 18:32	A-FIMS100	0016532-07	MBAJT1	1	
2I24005-052	09/24/2012 18:33	A-FIMS100	0016532-08	MBAJT2	1	
2I24005-053	09/24/2012 18:35	A-FIMS100	0016532-09	MBAJT3	1	
2I24005-054	09/24/2012 18:36	A-FIMS100	0016541-01	MBAJT5	1	
2I24005-055	09/24/2012 18:37	A-FIMS100	0016541-02	MBAJT6	1	
2I24005-056	09/24/2012 18:39	A-FIMS100	0016541-03	MBAJT7	1	
2I24005-057	09/24/2012 18:40	A-FIMS100	0016541-04	MBAJT8	1	
2I24005-058	09/24/2012 18:41	A-FIMS100	0016541-05	MBAJT9	1	
2I24005-059	09/24/2012 18:43	A-FIMS100	0016541-06	MBAJW0	1	
2I24005-060	09/24/2012 18:44	A-FIMS100	0016541-07	MBAJW1	1	
2I24005-061	09/24/2012 18:45	A-FIMS100	2I24005-CCV4	CCVN4	1	
2I24005-062	09/24/2012 18:47	A-FIMS100	2I24005-CCB4	CCBN4	1	

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	**Instrument Run Log-Mercury Analyzer** Instrument ID: **A-FIMS100**			
Effective	Area	Type	Number-Version	RCN
03-Feb-2010	**MET**	**FORM**	**2FORM02-B**	**938-10202011**

BATCHES(S): 2090170, 2090182 SEQUENCE: 2124005 CALIBRATION: –

START DATE: 09/24/12 START TIME: 17:26 END DATE: 09/24/12 END TIME: 18:47

ANALYTICAL METHOD: TSM013 SOP: 2SOP18-C

SnCl2 ID: 969-366-12 3% HCl ID: 969-365-12

RUN #	LAB SAMPLE ID	CLIENT SAMPLE ID	DIL	STANDARDS ID & COMMENTS
See attached computer generated results for the samples that we have analyzed:-				
	(i)	0016484-01	1003	
	(ii)	0016526-01	1003	
	(iii)	0016527-01	1002	
	(iv)	0016528-01	1004	
	(v)	0016529-01		
	(vi)	0016525-01	1002	
	(vii)	0016532-01	1009	
	(viii)	0016541-01	1007	

09/24/12

NOTES :

ANALYST/DATE: 09/24/2012 REVIEWER/DATE: 09/24/2012

Analytical Standards & Reagents Receiving Record

A4 SCIENTIFIC, INC.

A111039

Description:	ICV5-0503	Expires:	11/23/12
Manufacturer:	QATA	Received:	11/23/11
Manufacturerer's Lot #:	ICV-5(0508)	Supplier:	Ram Kishor Koyyada
Manufacturerer's Cat #:	08-003	Supplier Cat#:	METALS
# of Containers:	1	Last Edit:	11/28/11 09:56 by RKK

08-003

Analyte	CAS Number	Concentration	Units
			ug/mL

Reviewed By

11/28/11

Date

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

CAUTION: Read instructions carefully before opening bottles and proceeding with the analysis.

May Contain Metals or Cyanide in Dilute Acidic or Basic Aqueous Solutions

Material Safety Data Sheets Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is one or more aqueous inorganic reference material(s) containing various analyte concentrations. ICV1, ICV2, ICV3, ICV4, and ICV5 are in a matrix of dilute acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1 thru ICV6 use "ICV1-0307", "ICV2-0601", "ICV3-0500", "ICV4-0499", "ICV5-0508", and "ICV6-0400".**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, Shaw Environmental, Inc. at (702) 895-8722. Return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
Shaw Environmental, Inc.
2700 Chandler Ave - Bldg C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with both ILM and ISM SOWs. These solutions may also be used as aqueous Laboratory Control Samples (LCS) under ILM05 and revisions, but not under ISM01 and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the solutions that result after the concentrates have been diluted according to the following instructions. Class 'A' glassware should be used to prepare these solutions.

ICV1-0307 For ICP-AES use, dilute the ICV1 concentrate 10 fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For ICP-MS use, dilute the ICV1 concentrate 50 fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV2-0601 For furnace AA use, dilute the ICV2 concentrate 20 fold with 2% (v/v) nitric acid; pipet 5 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV3-0500 For ICP use, dilute the ICV3 concentrate 10 fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For furnace AA use, dilute the ICV3 concentrate 100 fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV4-0499 For the furnace AA determination of lead and thallium, dilute the ICV4 concentrate 10 fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For the furnace AA determination of silver and cadmium, dilute the ICV4 concentrate 100 fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV5-0508 For the cold vapor analysis of mercury by AA, dilute the ICV5 concentrate 100 fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, dilute the ICV6 concentrate 100 fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

ICV4-0499	
Element	Concentration (µg/L) (after 10 fold dilution)
Cd	98.7
Pb	99.8
Ag	101.9
Tl	98.8

ICV5-0508	
Element	Concentration (µg/L) (after 100 fold dilution)
Hg	4.0

ICV6-0400	
Element	Concentration (µg/L) (after 100 fold dilution)
CN-	99

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standard/Reagent Preparation Logbook Department: INORGANICS . 04/12/12			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	969-02222012

Standard/Reagent ID: 969-80-12	**Analyst:**
Standard/Reagent Name: 1ppm Hg Soln for Hg	
Dilution Solvent Name: 0.15% HNO_3	**Dilution Solvent ID #:** 04/19/2012 969-79-12
Prep Date: 04-19-2012	**Total Vol. (ml):** 50 ml
Expiration Date: 10-18-2012	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
Inorganic Ventures	Hg	AAHG1-1	A112018	1000	50	1

NOTES

REVIEWER:

DATE: 04/19/2012

Analytical Standards & Reagents Receiving Record

A4 SCIENTIFIC, INC.

A112018

Description:	MERCURY	Expires:	01/01/13
Manufacturer:	INORGANIC VENTURES	Received:	12/12/11
Manufacturerer's Lot #:	E2-HGO2090	Supplier:	Ram Kishor Koyyada
Manufacturerer's Cat #:	AAHG1-1	Supplier Cat#:	RECEIVING
# of Containers:	1	Last Edit:	12/13/11 15:57 by RKK

AAHG1-1

Analyte	CAS Number	Concentration	Units
			ug/mL

Reviewed By [illegible] 12/13/11 Date

INORGANIC™ VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

A 112 018

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

ATOMIC ABSORPTION SOLUTION 1000 μg/mL Mercury

Catalog No: AAHG1-1 and AAHG1-5

Lot Number: E2-HG02090
Matrix: 5% HNO_3 (v/v)

Certified Value: 1,000 ± 10 μg/mL

The concentration of this solution standard has been verified by Inductively Coupled Plasma Spectroscopy (ICP) and is traceable to NIST SRM 3133.

The concentration of this standard was calculated based upon the manufacturing records and was manufactured by weight and volume using a certified aqueous concentrate traceable to NIST. The manufacturing accuracy is typically better than 0.5 % relative at the 95 % confidence level. This standard is certified for a period of 1 year from the date of shipment provided the bottle is kept tightly capped and stored under normal laboratory conditions (See expiration date below).

Calculated Density of Solution: 1.026 g/mL

GLASSWARE CALIBRATION

An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

BALANCE CALIBRATION

All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability No. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

THERMOMETER CALIBRATION

All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

Certification Date: July 19, 2011

Expiration Date: EXPIRES 01 2013

Prepared By: Dary R Feeny

Approved By: Madeline Gozzi

Certifying Officer: Paul R. Gaines

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standard/Reagent Preparation Logbook Department: INORGANICS 04/12/12			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	969-02222012

Standard/Reagent ID: 969-79-12	**Analyst:**
Standard/Reagent Name: 0.15% HNO_3	
Dilution Solvent Name: D.I. water	**Dilution Solvent ID #:** NA
Prep Date: 04-19-2012	**Total Vol. (ml):** 1000
Expiration Date: 10-18-2012	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (ml or µL)	Final Conc. (mg/L or µg/L)
E.MD	HNO_3	NX0407/4	A203003	neat	1.5	0.15%

04/19/2012

NOTES

REVIEWER: DATE: 04/19/2012

Analytical Standards & Reagents Receiving Record

A4 SCIENTIFIC, INC.

A206001

Description:	NITRIC ACID 69.0-70.0%	Expires:	12/01/12
Manufacturer:	J.T.Baker	Received:	05/28/12
Manufacturerer's Lot #:	L02030	Supplier:	Laxmi Teerupalli
Manufacturerer's Cat #:	~~CAS NO 7697-37-2~~ 9598-34 SM 06/05/12	Supplier Cat#:	RECEIVING
# of Containers:	4	Last Edit:	06/04/12 16:34 by SLT

CAS NO 7697-37-2

Analyte	CAS Number	Concentration	Units
			ug/mL

Kiehr 6/4/12

Reviewed By Date

Nitric Acid, 69.0-70.0%

`BAKER INSTRA-ANALYZED'® Reagent For Trace Metal Analysis

Product No. 9598
Lot No. L02030
Release Date 01/10/2012

Certificate of Analysis

TEST	SPECIFICATION	RESULT
Meets A.C.S. Specifications		
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	10 max.	5
Residue after Ignition	2 ppm max.	< 1 ppm
Specific Gravity at 60°/60°F	1.416 - 1.420	1.420
Trace Impurities (in ppm):		
Chloride (Cl)	0.04 max.	< 0.03
Phosphate (PO_4)	0.1 max.	< 0.03
Sulfate (SO_4)	0.4 max.	0.2
Trace Impurities (in ppb):		
Aluminum (Al)	30 max.	2
Arsenic and Antimony (as As)	5 max.	< 2
Barium (Ba)	1 max.	< 0.2
Beryllium (Be)	1 max.	< 0.2
Bismuth (Bi)	1 max.	< 1
Boron (B)	4 max.	0.9
Cadmium (Cd)	1 max.	1
Calcium (Ca)	50 max.	5
Chromium (Cr)	10 max.	0.9
Cobalt (Co)	1 max.	< 0.3
Copper (Cu)	1 max.	< 0.1
Gallium (Ga)	20 max.	< 0.2
Germanium (Ge)	4 max.	< 2
Gold (Au)	4 max.	< 0.2
Heavy Metals (as Pb)	100 max.	< 50
Iron (Fe)	10 max.	0.7
Lead (Pb)	0.5 max.	< 0.5
Lithium (Li)	1 max.	< 0.2
Magnesium (Mg)	7 max.	0.3
Manganese (Mn)	1 max.	< 0.4
Mercury (Hg)	0.5 max.	< 0.1
Molybdenum (Mo)	5 max.	< 3
Nickel (Ni)	1 max.	< 0.3
Niobium (Nb)	1 max.	< 0.2
Potassium (K)	5 max.	< 2
Silicon (Si)	20 max.	0.9
Silver (Ag)	1 max.	< 0.3

Sodium (Na)	200 max.	0.6
Strontium (Sr)	1 max.	< 0.2
Tantalum (Ta)	2 max.	< 0.9
Thallium (Tl)	5 max.	< 2
Tin (Sn)	5 max.	< 0.8
Vanadium (V)	1 max.	< 0.2
Zinc (Zn)	5 max.	< 0.3
Zirconium (Zr)	1 max.	0.1

For Laboratory, Research or Manufacturing Use

Country of Origin: USA

ISO
Phillipsburg, NJ 9001:2008 & 14001:2004
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, Holland 9001:2008 & 14001:2004
Selangor, Malaysia 9001:2008

Richard M. Siberski
Global Director Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855-282-6867 or 610-573-2600

Avantor ™ Performance Materials. Inc.
3477 Corporate Parkway • Suite #200 • Center Valley, PA 18034 • U.S.A. • Phone: 610.573.2600 • Fax: 610.573.2610

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standard/Reagent Preparation Logbook Department: IN ORGANICS			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	969-02222012

Standard/Reagent ID: 969-270-12	**Analyst:** SW
Standard/Reagent Name: $NH_2OH.HCl$, NaCl for Mg	
Dilution Solvent Name: D.I. water	**Dilution Solvent ID #:** NA
Prep Date: 08-14-12	**Total Vol. (ml):** 2000
Expiration Date: 02-13-13	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
J.T. Baker	$NH_2OH.HCl$	2196-01	A003030	neat	240 g	–
E.M.D	Sodium chloride	7710	A003021	neat	240 g	–

SW 08/14/2012

NOTES

REVIEWER: [illegible] DATE: 08/16/2012

Analytical Standards & Reagents Receiving Record

A4 SCIENTIFIC, INC.

A003021

Description:	SODIUM CHLORIDE	Expires:	09/06/12
Manufacturer:	VWR	Received:	03/09/10
Manufacturerer's Lot #:	2029B446	Supplier:	Devi Chinnam
Manufacturerer's Cat #:	CAT# EM-7710	Supplier Cat#:	RECEIVING
# of Containers:	8	Last Edit:	03/10/10 13:09 by DC

CAT# EM-7710

Analyte	CAS Number	Concentration	Units
			ug/mL

Reviewed By Date 3/10/10

Analytical Standards & Reagents Receiving Record

A4 SCIENTIFIC, INC.

A003030

Description:	HYDEOXYLAMINE HYDROCHLORIDI	Expires:	09/11/12
Manufacturer:	J.T.Baker	Received:	03/12/10
Manufacturerer's Lot #:	H51598	Supplier:	Devi Chinnam
Manufacturerer's Cat #:	CAT# 5470-11-1	Supplier Cat#:	RECEIVING
# of Containers:	4	Last Edit:	03/15/10 08:33 by DC

CAT# 5470-11-1

Analyte	CAS Number	Concentration	Units
			ug/mL

Kishore 3/15/10

Reviewed By Date

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standard/Reagent Preparation Logbook Department: IN ORGANICS			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	969-02222012

Standard/Reagent ID: 969-268-12	**Analyst:** SM
Standard/Reagent Name: $KMnO_4$ for Hg	
Dilution Solvent Name: D.I. water	**Dilution Solvent ID #:** NA
Prep Date: 08-14-12	**Total Vol. (ml):** 2000
Expiration Date: 02-13-13	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
J.T. Baker	$KMnO_4$	3227-01	A003022	neat	100g	5% w/v

SM 08/14/12

NOTES

REVIEWER: M.

DATE: 08/16/2012

Analytical Standards & Reagents Receiving Record

A4 SCIENTIFIC, INC.

A003022

Description:	POTASSIUM PERMANGANATE	Expires:	09/06/12
Manufacturer:	J.T.Baker	Received:	03/09/10
Manufacturerer's Lot #:	H32614	Supplier:	Devi Chinnam
Manufacturerer's Cat #:	CAS # 7722-64-7	Supplier Cat#:	RECEIVING
# of Containers:	4	Last Edit:	03/10/10 13:12 by DC

CAS # 7722-64-7

Analyte	CAS Number	Concentration	Units
			ug/mL

Kishen 3/10/10

Reviewed By Date

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standard/Reagent Preparation Logbook Department: IN ORGANICS			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	969-02222012

Standard/Reagent ID: 969-272-12	**Analyst:** SM
Standard/Reagent Name: $SnCl_2$ for Hg	
Dilution Solvent Name: D.I. water	**Dilution Solvent ID #:** NA
Prep Date: 08-14-12	**Total Vol. (ml):** 1000
Expiration Date: 08-15-12	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
J.T. Baker	HCl	9530-33	A205009	neat	30	3% V/V
J.T. Baker	$SnCl_2$	3980-01	A012010	neat	11 g	–

SM 08/14/12

NOTES

REVIEWER: JH DATE: 08/16/2012

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standard/Reagent Preparation Logbook Department: IN ORGANICS			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	969-02222012

Standard/Reagent ID: 969-366-12	**Analyst:** [illegible]
Standard/Reagent Name: $SnCl_2$ for Hg	
Dilution Solvent Name: D.I. water	**Dilution Solvent ID #:** NA
Prep Date: 09-24-12	**Total Vol. (ml):** 1000 ml
Expiration Date: 09-25-12	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
J.T. Baker	HCl	9530-33	A205009	neat	30	3% V/V
J.T. Baker	$SnCl_2$	3980-01	A012010	neat	1 g	–

[illegible] 09/24/12

NOTES _____

REVIEWER: [illegible] DATE: 09/24/2012

Analytical Standards & Reagents Receiving Record

A4 SCIENTIFIC, INC.

A012010

Description:	Stannous Chloride, Dihydrate Standard	Expires:	05/31/15
Manufacturer:	JT Baker	Received:	11/01/10
Manufacturerer's Lot #:	J45465	Supplier:	Laxmi Teerupalli
Manufacturerer's Cat #:	3980-01	Supplier Cat#:	RECEIVING
# of Containers:	4	Last Edit:	12/02/10 11:15 by SLT

3980-01

Analyte	CAS Number	Concentration	Units
			ug/mL

Reviewed By [illegible] 12/02/10 Date

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standard/Reagent Preparation Logbook Department: IN ORGANICS			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	969-02222012

Standard/Reagent ID: 969-269-12	**Analyst:** [illegible]
Standard/Reagent Name: $K_2S_2O_8$ for Hg	
Dilution Solvent Name: D.I. water	**Dilution Solvent ID #:** NA
Prep Date: 08-14-12	**Total Vol. (ml):** 1000 ml.
Expiration Date: 02-13-13	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
J.T. Baker	$K_2S_2O_8$	3239-01	A003032	neat	50 g	5% V/V

[illegible] 08/14/12

NOTES _____

REVIEWER: [illegible] DATE: 08/16/2012

Analytical Standards & Reagents Receiving Record

A4 SCIENTIFIC, INC.

A003032

Description:	POTASSIUM PERSULFATE	Expires:	09/11/12
Manufacturer:	J.T.Baker	Received:	03/12/10
Manufacturerer's Lot #:	H44465	Supplier:	Devi Chinnam
Manufacturerer's Cat #:	CAS# 7727-21-1	Supplier Cat#:	RECEIVING
# of Containers:	4	Last Edit:	03/15/10 08:46 by DC

CAS# 7727-21-1

Analyte	CAS Number	Concentration	Units
			ug/mL

Kishore 3/15/10

Reviewed By Date

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standard/Reagent Preparation Logbook Department: IN ORGANICS			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	969-02222012

Standard/Reagent ID: 969-364-12	**Analyst:** [signature]
Standard/Reagent Name: 3% HCl soln	
Dilution Solvent Name: D.I. water	**Dilution Solvent ID #:**
Prep Date: 09-24-12	**Total Vol. (ml):**
Expiration Date: 03-23-13	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
J.T. Baker	HCl	9530-33	A205009	neat	30	3% V/V

[signature] 09/24/12

NOTES

REVIEWER: [signature]

DATE: 09/24/2012

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standard/Reagent Preparation Logbook Department: IN ORGANICS			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	969-02222012

Standard/Reagent ID: 969-323-12	**Analyst:** [signature]
Standard/Reagent Name: Aquaregia for Hg	
Dilution Solvent Name: NA	**Dilution Solvent ID #:** NA
Prep Date: 09-10-12	**Total Vol. (ml):** 400 ml
Expiration Date: 09-10-12	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
J.T. Baker	HCl	9530-33	A205009	neat	300	–
J.T. Baker	HNO_3	9598-34	A206001	neat	100	–

[signature] 09/10/12

NOTES

REVIEWER: [signature]

DATE: 09/10/2012

Analytical Standards & Reagents Receiving Record

A4 SCIENTIFIC, INC.

A205009

Description:	HYDROCHLORIC ACID 36.5-38.0%	Expires:	11/18/12
Manufacturer:	J.T.Baker	Received:	05/22/12
Manufacturerer's Lot #:	K28022	Supplier:	Laxmi Teerupalli
Manufacturerer's Cat #:	~~CAS NO 7647-01-0~~ 9530-33 SM 06/01/12	Supplier Cat#:	RECEIVING
# of Containers:	6	Last Edit:	05/22/12 11:45 by SLT

CAS NO 7647-01-0

Analyte	CAS Number	Concentration	Units
			ug/mL

Kish 5/22/12

Reviewed By Date

Hydrochloric Acid, 36.5-38.0%

`BAKER INSTRA-ANALYZED´® Reagent (For Trace Metal Analysis)

Product No. 9530
Lot No. K28022
Release Date 07/08/2011

Certificate of Analysis

TEST	SPECIFICATION	RESULT
Meets A.C.S. Specifications		
Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.7 %
Color (APHA)	10 max.	5
Residue after Ignition	3 ppm max.	< 1 ppm
Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
Bromide (Br)	0.005 % max.	< 0.005 %
Extractable Organic Substances	5 ppm max.	< 1 ppm
Free Chlorine (as Cl_2)	0.5 ppm max.	< 0.5 ppm
Trace Impurities (in ppm):		
Phosphate (PO_4)	0.05 max.	< 0.03
Sulfate (SO_4)	0.5 max.	< 0.3
Sulfite (SO_3)	0.8 max.	0.4
Ammonium (NH_4)	3 max.	< 1
Arsenic (As)	0.01 max.	< 0.01
Trace Impurities (in ppb):		
Aluminum (Al)	10 max.	0.4
Arsenic and Antimony (as As)	5 max.	< 3
Barium (Ba)	1 max.	< 0.2
Beryllium (Be)	1 max.	< 0.2
Bismuth (Bi)	10 max.	< 1
Boron (B)	20 max.	1.4
Cadmium (Cd)	1 max.	< 0.3
Calcium (Ca)	50 max.	32
Chromium (Cr)	1 max.	< 0.4
Cobalt (Co)	1 max.	< 0.3
Copper (Cu)	1 max.	< 0.1
Gallium (Ga)	1 max.	< 0.2
Germanium (Ge)	3 max.	< 2
Gold (Au)	4 max.	< 0.2
Heavy Metals (as Pb)	100 max.	< 50
Iron (Fe)	15 max.	3.5
Lead (Pb)	1 max.	< 0.5
Lithium (Li)	1 max.	< 0.2
Magnesium (Mg)	10 max.	0.5
Manganese (Mn)	1 max.	< 0.4
Mercury (Hg)	0.5 max.	< 0.1
Molybdenum (Mo)	10 max.	< 3

Nickel (Ni)	4 max.	< 0.3
Niobium (Nb)	1 max.	0.2
Potassium (K)	9 max.	< 2
Selenium (Se)	Information Only	2
Silicon (Si)	100 max.	1
Silver (Ag)	1 max.	< 0.3
Sodium (Na)	100 max.	< 0.5
Strontium (Sr)	1 max.	< 0.2
Tantalum (Ta)	1 max.	< 0.9
Thallium (Tl)	5 max.	< 2
Tin (Sn)	5 max.	< 0.8
Titanium (Ti)	1 max.	0.5
Vanadium (V)	1 max.	< 0.2
Zinc (Zn)	5 max.	< 0.3
Zirconium (Zr)	1 max.	0.2

Product Information (not specifications):

Appearance (clear, fuming liquid)

For Laboratory, Research or Manufacturing Use

Country of Origin: USA

ISO
Phillipsburg, NJ 9001:2008 & 14001:2004
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, Holland 9001:2008 & 14001:2004
Selangor, Malaysia 9001:2008

Richard M. Siberski
Global Director of Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 1-800-582-2537 or 908-859-2151
Avantor ™ Performance Materials. Inc. (formerly Mallinckrodt Baker, Inc.)
222 Red School Lane • Phillipsburg, NJ 08865 • Phone: 908.859.2151 • Fax: 908.859.6905

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	pH / Corrosivity Run Log			
Effective	Area	Type	Number-Version	RCN
03-Feb-2010	Wet Chem	FORM	5FORM02-B	955-01102012

Instrument ID: pH PAPER

BATCHES(S): — SEQUENCE: — CALIBRATION: —

ANALYTICAL METHOD (circle one): 150.1 9040B 9045C CLP Other: ISMO1.3

SOP: 5-SOP04-B START DATE/TIME: 9/13/12 10:45 END DATE/TIME: 9/13/12 12:00

SERIAL NUMBER	LAB SAMPLE ID	CLIENT SAMPLE ID	pH	STANDARDS ID, pH & COMMENTS
1	OD16484-01	MBA0305	<2	for Metals Analysis
2	↓ -02	↓ 06	<2	↓
3	↓ -03	↓ 07	<2	↓
4	OD16489-01	MBA222	<2	↓
5	↓ -02	↓ 24	<2	↓
6	↓ -03	↓ 26	<2	↓
7	OD16489-01	MBA222	>12	for CN Analysis
8	↓ -02	↓ 24	>12	↓
9	↓ -03	↓ 26	>12	↓
10	OD16490-01	MBA223	<2	for Metals Analysis
11	↓ -02	↓ 25	<2	↓
12	↓ -03	↓ 27	<2	↓

9/13/12

* For CLP, if pH of a water sample is equal to or greater than 2 for metals or less than 12 for Cyanide samples notify SMO and wait for resolution before proceeding with analysis of samples.

NOTES:

ANALYST/DATE: 9/13/12 REVIEWER/DATE: 09/13/2012

FedEx Express Package US Airbill

FedEx Tracking Number 8013 9224 9118

Form ID No. 0215

Recipient's Copy

1 From

Date 9/12/12

Sender's Name Dante Porzilli Phone 732 225-7000

Company CDM SMITH, INC

Rarcus 9/13/12 10:10

Address 110 FIELDCREST AVE #8 FLR 6 Dept./Floor/Suite/Room

City EDISON State NJ ZIP 08837

2 Your Internal Billing Reference 68971.3320.027.DAZ.OVERZ

3 To

Recipient's Name Laxmi Teerupalli Phone 281 292-5277

Company A4 Scientific Inc.

Address 1544 Sawdust Rd. Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Suite 505

Use this line for the HOLD location address or for continuation of your shipping address.

City The Woodlands State TX ZIP 77380

☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0455636241

8013 9224 9118

4 Express Package Service • To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☑ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging • Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☑ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☑ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

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Obtain recip. Acct. No. ☐

Total Packages 1 Total Weight 33 lbs.

Credit Card Auth.

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611

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16484-A

0077

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281) 292-5277
www.a4scientific.com

WORK ORDER LOG-IN REPORT

WORK ORDER = 0016484

`WORKORDER_0016484~

Printed: 9/14/2012 10:00:27AM

Client : NAZY ABOUSAEEDI
COMPUTER SCIENCES CORPORATION
15000 CONFERENCE CENTER DRIVE
CHANTILLY VA 201513819

Project : ISM01.3-EPW09035
Project Number : ISM01.3-EPW09035
Courier/Airbill # : Fed Ex / 801392249118
COC/TR # : 2-090612-103032-0001

Lab Sample	Client Sample	Matrix	#Cont.	Case	SDG	Sampled	Received	Analysis	TAT	Comments
0016484-01	MBA305	Water	1	42822	MBA305	09/12/12 13:45	09/13/12 10:10	ISM01.3 HG	14	1st Sx
0016484-02	MBA306	Water	2	42822	MBA305	09/12/12 11:11	09/13/12 10:10	ISM01.3 HG	14	MS/Dup
0016484-03	MBA307	Water	1	42822	MBA305	09/11/12 12:25	09/13/12 10:10	ISM01.3 HG	14	Last Sx

Work Order Comments and Special Instructions:

HG
QC REQUIRED YES

Reviewed By

9/14/12
Date

0078

16484-A

CUSTODY SEAL

Date 9/12/12

Signature

CUSTODY SEAL

Date 9/12/12

Signature

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
281-292-5277

Sample Custody Logbook
COOLER A

Effective	Area	Type	Number-Version	RCN
26-Aug-2009	QA	FORM	6FORM06-A	985-08152012

Login Thermometer ID: T90197 Work Order: 0016484 Shelf: B1

Sample Custodian Check in:

SAMPLE ID	CONTAINER TYPE & NO.	DATE/TIME SIGNED IN	SIGNED IN BY	SAMPLE ID	CONTAINER TYPE & NO.	DATE/ TIME SIGNED IN	SIGNED IN BY
16484-01	1-1L plastic	9/13/12 10:40	Raty				
-02	2-1L plastic					9/13/12	
-03	1-1L plastic						

Analyst Checkout/Check in:

SAMPLE ID	CONTAINER TYPE	QUANTITY	SIGNED OUT BY	DATE/ TIME SIGNED OUT	PREP OR ANALYSIS	SIGNED IN BY	DATE/ TIME SIGNED IN	REMARKS
0016484-01 to-03	1-1L plastic	3	[illegible]	09-24-12 9:30	Hg	[illegible]	09-24-12 13:00	

09/24/2012

Container type: 40ml, 2WM, 4WM, 8WM, 16WM, 32WM, 1L Amber, 1gal Amber, 1L Poly, 16 Poly, other:

Empty containers must be returned to the SAMPLE CUSTODIAN and documented as empty.

Reviewer: [illegible] Date: 09/24/2012

ramkishor@a4scientific.com

From: Palman, Chad [cpalman@fedcsc.com]
Sent: Thursday, September 13, 2012 12:10 PM
To: A4; Laxmi Teerupalli; Ramkishor Koyyada; Reddy Pakanati; Shreedhar Vokati
Cc: Adly Michael; Jennifer Feranda
Subject: Region 02 | Case 42822 | Lab A4 | Issue Discrepancies with tags, jars, and/or TR/COC | FINAL

Ram Kishor,

Summary Start
Issue: Per TR/COC the TAT is 21 days, however, per scheduling, the TAT is 14 days.
Resolution: In accordance with previous direction from Region 2, the laboratory will proceed with the turnaround time indicated on the Scheduling Notification Form, note the issue in the SDG Narrative, and proceed with the analysis of the samples. The resolution will be applied to all TR/COCs received for this Case that list an incorrect turnaround time.
Summary End

Please let me know if you have any questions or concerns. To waive any defect(s) associated with this issue, please contact your PO.

Thanks,

CHAD PALMAN
Environmental Coordinator- Regions 2 and 10
CSC

15000 Conference Center Drive, Chantilly, VA 20151
Civil Division | t: 703-818-4117 | f: 703-818-4602 | cpalman@fedcsc.com | www.csc.com

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NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

From: ramkishor@a4scientific.com [mailto:ramkishor@a4scientific.com]
Sent: Thursday, September 13, 2012 12:54 PM
To: Palman, Chad
Cc: 'A4General'; laxmi@a4scientific.com; 'Reddy Pakanati'
Subject: CASE 42822

Chad,

Issue 1: The TR/COC lists the TAT as 21 days; however, per scheduling, the correct TAT is 14 days.

Please let me know if you have any questions.

Regards

Ram Kishor
A4 Scientific, Inc.

The Woodlands, TX
281-292-5277
ramkishor@a4scientific.com

Appendix K: Analytical Transport Modeling

MADE BY: M. D. DATE: 2/7/13
CHECKED BY: FW DATE: 2/15/13

PROJECT: Mercury Refining Superfund Site, Colonie, New York
SUBJECT: Estimate of the Extent of the Target ISS Dissolved-Phase Concentration Downgradient of ISS-11

1. INTRODUCTION

In-situ stabilization/solidification (ISS) at the Mercury Refining Superfund Site in Colonie, New York will be performed, per the Record of Decision, in the area where the dissolved-phase concentration of mercury exceeds the threshold of 0.7 µg/L (ppb). Dissolved-phase concentrations of mercury have been obtained through a sampling program, conducted in 2010-2012 (see Figure 3-6 of this SRDI report), which utilized monitoring well clusters distributed throughout an area. Through this sampling effort, well clusters were identified where the dissolved-phase concentrations are lower than the threshold value of 0.7 ppb. These clusters can be used to delineate the ISS area.

Two of the well clusters are located within the footprint of the Container Storage Building (CSB). The dissolved-phase concentration in the shallow well of one of these clusters – MW-ISS-11 – was measured at 0.51 ppb in the sample collected by Brown and Caldwell, and at 0.77 ppb in the sample collected by the USEPA (Figure 3-6 of this SRDI report). The 0.77 ppb result is marginally higher than the 0.7 ppb ISS threshold. Therefore, the exact location of the 0.7-ppb limit of the ISS is not established in the footprint of the CSB.

2. PURPOSE OF THE CALCULATION

The purpose of this calculation is to estimate the location of the 0.7-ppb ISS threshold line within the footprint of the CSB at the anticipated time when ISS is implemented.

3. PROBLEM DESCRIPTION

The groundwater flow direction at the Site is roughly to the south-southwest (see Figures 3-3 through 3-5 of this SRDI report). The known source area is in the footprint of the retort pad, which is an approximately 60 ft by 15 ft rectangle, with the long axis oriented roughly east-west, perpendicular to the groundwater flow. Based on available data (Figure 3-6 of this SRDI report), the dissolved-phase mercury concentrations are low to "not detected" upgradient of the retort pad, are relatively high within the pad's footprint, and decrease to "not detected" downgradient of the pad within and downgradient of the CSB footprint (concentration of 0.3 ppb was identified in the shallow well of one of the downgradient clusters (ISS-12), this; however, is marginally above the detection limit of 0.2 ppb and below the ISS threshold of 0.7 ppb). The highest concentration within the footprint occurs at ISS-11S: 0.77 ppb based on the USEPA sample.

In this calculation, the extent of the exceedances of the 0.7 ppb target concentration around ISS-11 is estimated at the anticipated time of the ISS implementation. The estimate is performed using the plume migration pattern observed downgradient of the retort pad source (i.e., within and downgradient of the CSB), based on dissolved-phase mercury concentrations established by sampling of groundwater from the wells located in that area.

4. ESTIMATE OF THE PLUME EXTENT IN THE ISS-11 AREA

The estimate of the extent of the area around ISS-11 where dissolved-phase concentrations are higher than the target value of 0.7 ppb (based on the USEPA sample) at the anticipated time of the ISS implementation is performed by using data from well clusters located in the retort pad, within the CSB footprint, and downgradient of the CSB. These well clusters are: ISS-1, -10, 11, 12 and -13. It can be observed that the highest concentration in that area occur along the line defined by clusters ISS-1, ISS-11 and ISS-12, in the shallow wells of these clusters. Therefore, data from the shallow wells ISS-1S, ISS-11S and ISS-12S are used.

The estimate is developed using two methods. The first method is based on the assumption that the plume has reached steady state. The second method makes an assumption that equilibrium has not been attained and the plume continues to expand (transient state).

4.1 Estimate Based On the Steady State Plume

Based on the history of Site use for mercury refining over the period of several decades, it is possible that the initial releases occurred in a sufficiently distant past so that the associated dissolved-phase plume has achieved steady state. The plume would have reached its maximum size, and will not change its configuration as long as the conditions at the Site are not altered. The concentration profile downgradient of the source (retort pad) can be plotted, and subsequently used to determine the distances between given concentrations and to project those distances to the area downgradient of ISS-11. In a steady-state plume, those distances will not change; therefore, they can be used to estimate the distance from the cluster ISS-11 where the concentrations will decrease to the value equal to the ISS target level of 0.7 ppb.

Data from Figure 3-6 of this SRDI report, amended with distances from the center line of the retort pad to wells ISS-1S, ISS-11S and ISS12S, are presented on page 6 of this calculation. Based on that, a figure was developed depicting the concentration pattern along the groundwater flow direction in the area encompassing the source, the CSB footprint and area immediately downgradient of the CSB (page 7 of this calculation).

This data set is plotted on page 8 on a logarithmic concentration scale, allowing for the visual inspection of the concentration profile in the area of low values (values of interest are in the 0.1-1 ppb range). An exponential curve interpolating the data, as well as the linear interpolation between the wells ISS-11S and ISS-12S, are also shown on the figure. It can be observed that the decrease of concentration from 0.77 ppb (at ISS-11S) to 0.7 ppb (target value to define the extent of ISS) occurs over the distance of approximately 2 feet for both the exponential and linear interpolation. Given this, the 0.7 ppb target concentration contour is estimated to be approximately 2-feet down-gradient of ISS-11S under steady state conditions. In a steady-state plume, this distance applies to all times; therefore, it applies to the anticipated time of the ISS implementation.

4.1 Estimate Based on the Expanding Plume

If the steady-state conditions stipulated in the previous analysis have not been reached yet, the plume will continue to migrate and expand. Transient analysis is conducted to evaluate the current extent of the 0.7 ppb impacts downgradient of the retort pad in the CSB footprint, and to project the extent of the 0.7 ppb impacts that will be present in the future at the anticipated time of the implementation of the ISS remedy.

Based on data presented on page 6 of this calculation, the current extent of the plume downgradient of the retort pad is approximately 60 feet (ISS-1 to ISS-12). The width of the presumed source in the footprint of the retort pad is similar. Because the groundwater flow direction and gradient remains constant over the width and length of the plume, the migration of the plume along the down-gradient axis of the plume can be represented using a one-dimensional approximation.

One-dimensional migration from a region with a fixed concentration at the source is described by equation 7-134 of reference 1.

$$C(x,t) = (C_0/2) \{erfc\{(x - t\, q/n) / [2\, (D_h t)^{1/2}]\} + \exp(qx/nD_h)\, erfc\{(x + t\, q/n) / [2\, (D_h t)^{1/2}]\}\}$$

Terms are defined as follows:

- $C(x,t)$ - concentration at a given point "x" and time "t", $[M/L^3]$
- C_0 - source concentration, $[M/L^3]$
- D_h - hydrodynamic dispersion coefficient, $[L^2/T]$
- q - specific discharge, [L/T]
- n - effective porosity, [-]

Defining the migration velocity "V" as:

$$V = q/n$$

Neglecting molecular diffusivity:

$D_h = V\alpha_L + D^*$, for $D^* << V\alpha_L \Rightarrow D_h = V\alpha_L$; where α_L is longitudinal dispersivity along the axis of the plume, estimated using formula presented on Figure B.2.7 of reference 2:

$\alpha_L = 0.83\, [\log(Lp)]^{2.414}$; where L_p is the longitudinal dimension of the plume

Substituting "V" for "q/n" and "and "$V\alpha_L$" for "D_h" into 7-134:

$$C(x,t) = (C_0/2) \{erfc\{(x - Vt) / [2\, (V\alpha_L t)^{1/2}]\} + \exp(x/\alpha_L)\, erfc\{(x + Vt) / [2\, (V\alpha_L t)^{1/2}]\}\}$$

This equation is applied in the manner described below. Page 6 of this calculation shows the distances and concentrations used.

1. Concentration at the center of the retort pad (37.3 ppb at ISS-1S, or C = 37.3 ppb at x = 0) is used to represent source concentration.
2. Concentration at ISS-11S (C = 0.77 ppb at $x = x_{ISS-11}$) is used as a known downgradient concentration at the present time.
3. Time of plume development from the release to the present is assumed to be between 30 yrs and 50 yrs, based on information on the history of Site use (releases definitely occurred before 1980). The anticipated time of ISS implementation is assumed to be 2 yrs from the present (i.e., between 32 and 52 years from the release).
4. Plume migration velocity is estimated for the assumed minimum and maximum plume development time frames from the release to the present of 30 and 50 years, using the known concentrations at ISS-1S and ISS-11S.
5. Using the estimated migration velocity, the extent of the plume at the time of remedy implementation (i.e., 2 yrs from the present, or 32 yrs and 52 yrs from the release to the ISS implementation) is modeled to find the distance between the source (ISS-1S) and the threshold concentration value for ISS application of 0.7 ppb. This distance is labeled "x_{impl}".
6. The distance between the well location of ISS-11S and the future location of the 0.7 ppb concentration at the anticipated time of ISS implementation is obtained: $d = x_{impl} - x_{ISS-11}$. This distance is the estimated extend of the ISS buffer zone downgradient of ISS-11S that would allow for the inclusion of the 0.7 ppb concentration at the time when the ISS remedy is implemented.

Calculations are shown on pages 9 and 10, respectively, for past plume development times of 50 years and 30 years (corresponding to 32 yrs and 52 yrs development times between the release and the ISS implementation).

Estimated migration velocities are approximately 0.25-0.45 ft/yr. For the 50-year past development time frame of the plume (or a 52-yr time frame from release to the implementation of the ISS), the distance from the well ISS-11 to the 0.7 ppb concentration at the time of remedy implementation is 1.5 ft. For the 30-yr time frame of past plume migration (32 yrs time frame from release to the implementation of the ISS), the distance is 2.1 feet.

5. SUMMARY

This calculation presents an estimate of the extent of the dissolved-phase mercury impacts in excess of the ISS target concentration value of 0.7 ppb in the area around the monitoring well cluster ISS-11, at the anticipated time of the ISS implementation. The estimate is performed by analyzing the plume migration patterns downgradient of the source area located within the footprint of the retort pad.

The analysis was performed for two possible cases: 1) the steady-state plume, where the plume expansion ceased and the plume achieved its maximum extent, and 2) the transient plume, where the plume continues to migrate and expand.

For the case of the steady-state plume, the distance between the well cluster ISS-11 and the concentration of 0.7 ppb (target value for the application of ISS) is estimated to be approximately 2 feet. For the case of the transient plume, this distance is estimated at approximately 1-2 feet. Both distances refer to the conditions prevailing at the anticipated time of the ISS implementation. Therefore, regardless of the plume conditions (steady-state or transient), the ISS area should encompass the region of 2-3 feet downgradient of the ISS-11 well cluster.

6. REFERENCES

1. Hydraulics of Groundwater
   J. Bear
   Mc-Graw-Hill, 1979

2. Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water
   EPA/600/R-98/128
   USEPA, September 1998

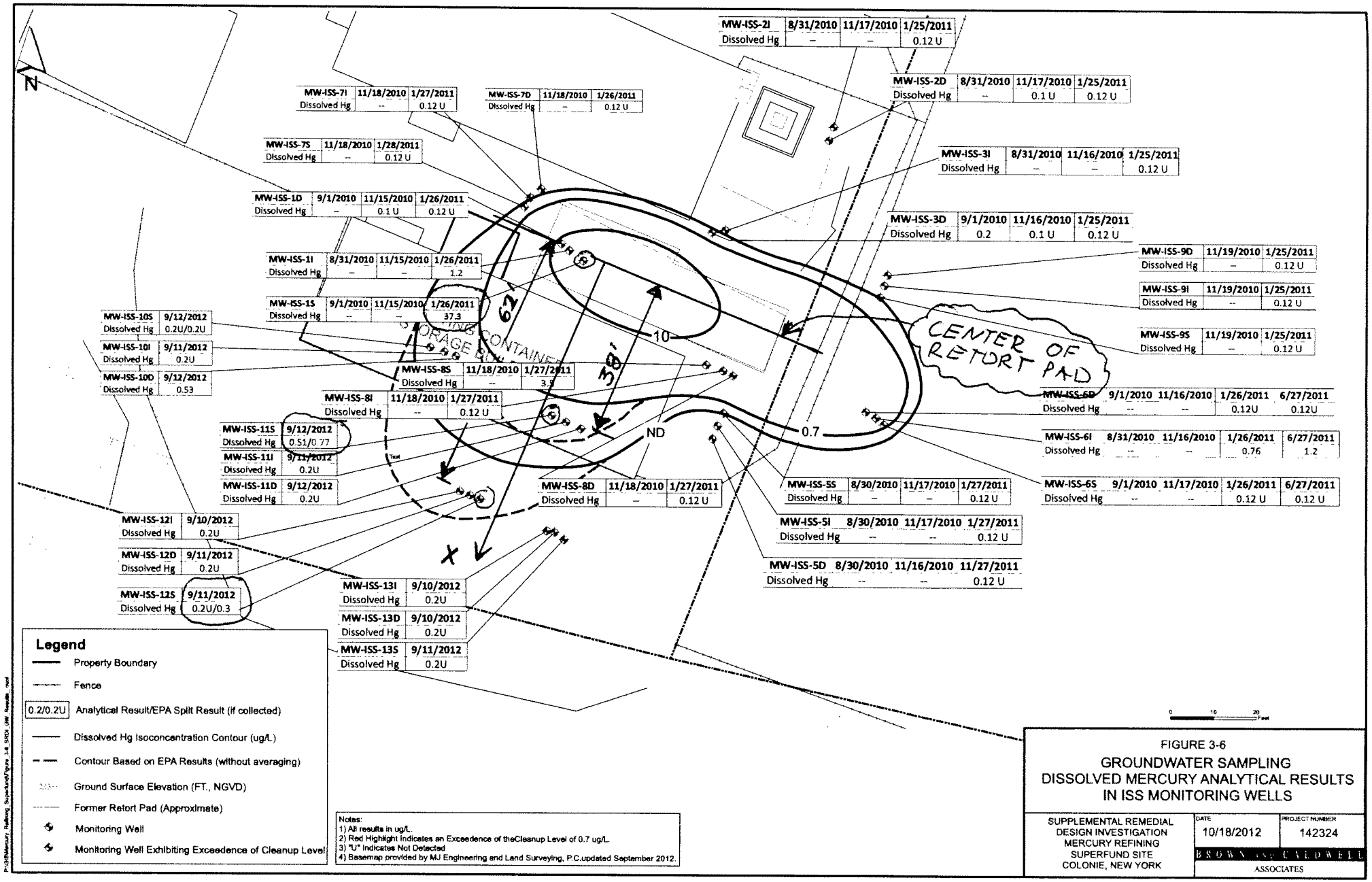


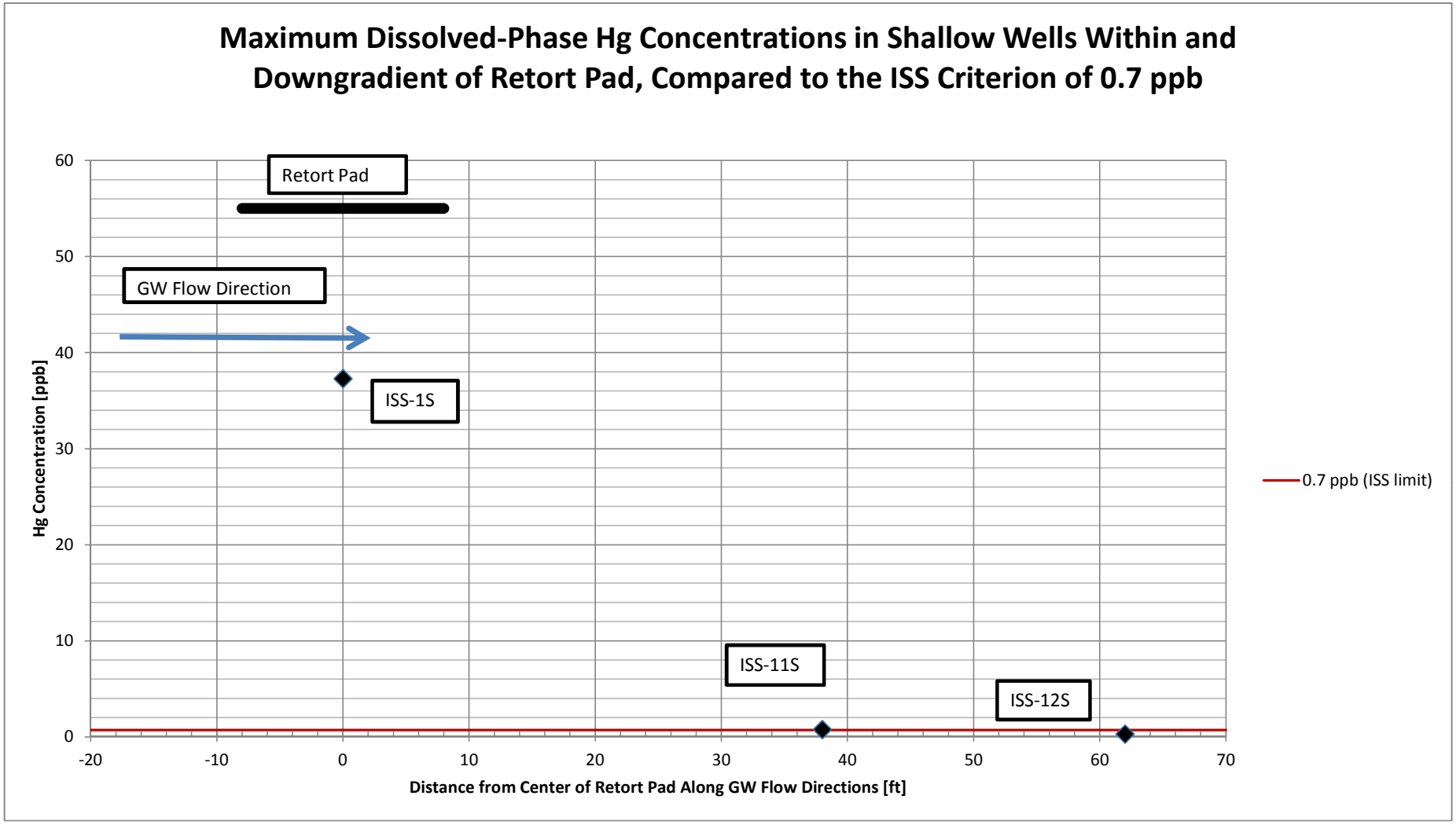
FIGURE 3-6
GROUNDWATER SAMPLING
DISSOLVED MERCURY ANALYTICAL RESULTS
IN ISS MONITORING WELLS

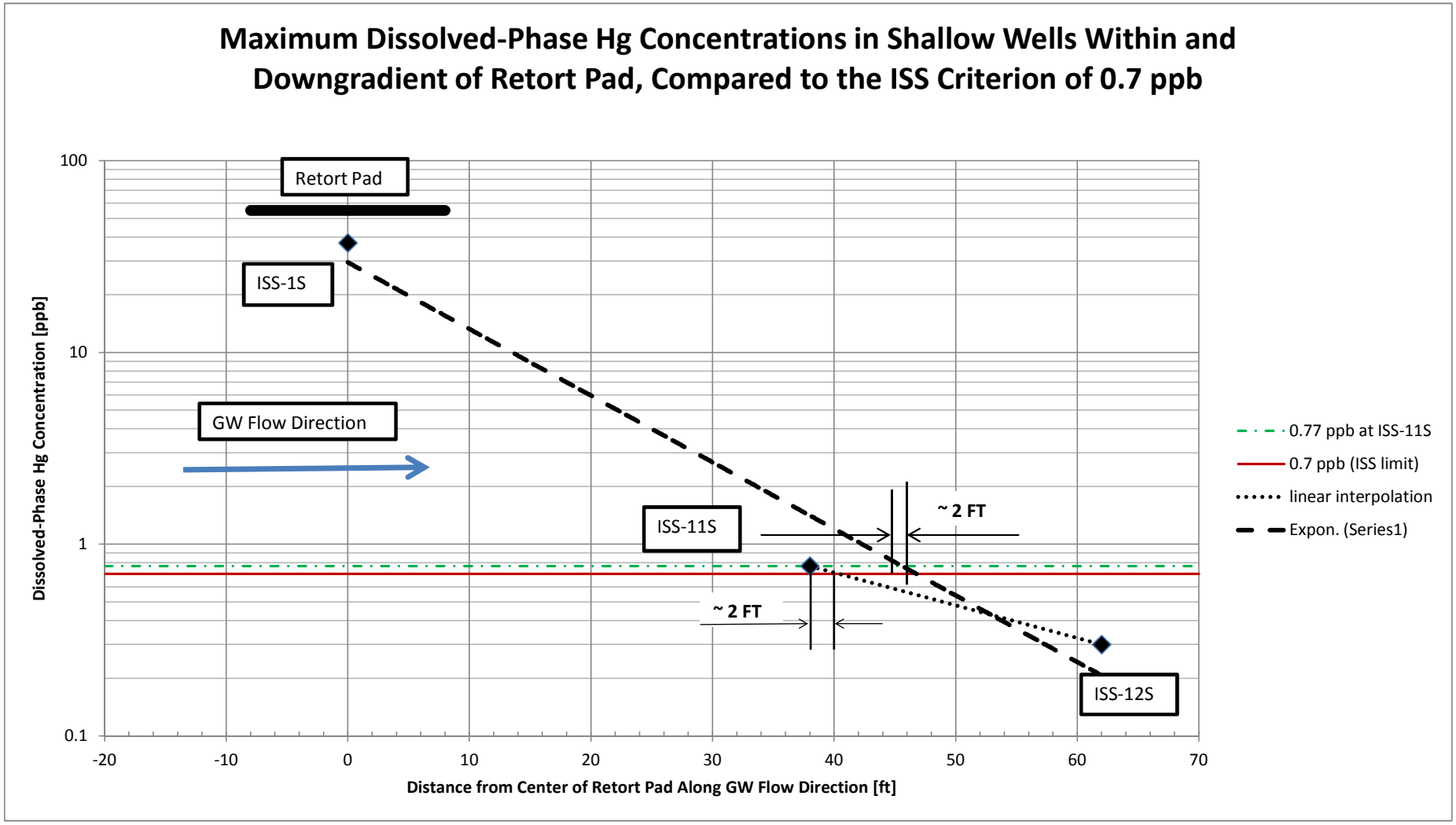
SUPPLEMENTAL REMEDIAL DESIGN INVESTIGATION
MERCURY REFINING
SUPERFUND SITE
COLONIE, NEW YORK

DATE 10/18/2012
PROJECT NUMBER 142324

BROWN AND CALDWELL ASSOCIATES

Pg 6 of 15


Maximum Dissolved-Phase Hg Concentrations in Shallow Wells Within and Downgradient of Retort Pad, Compared to the ISS Criterion of 0.7 ppb
Retort Pad
GW Flow Direction
ISS-1S
ISS-11S
ISS-12S
0.7 ppb (ISS limit)
Hg Concentration [ppb]
Distance from Center of Retort Pad Along GW Flow Directions [ft]
60
50
40
30
20
10
0
-20
-10
0
10
20
30
40
50
60
70


Maximum Dissolved-Phase Hg Concentrations in Shallow Wells Within and Downgradient of Retort Pad, Compared to the ISS Criterion of 0.7 ppb
Retort Pad
ISS-1S
GW Flow Direction
ISS-11S
~ 2 FT
~ 2 FT
ISS-12S
100
10
1
0.1
-20
-10
0
10
20
30
40
50
60
70
Dissolved-Phase Hg Concentration [ppb]
Distance from Center of Retort Pad Along GW Flow Direction [ft]
0.77 ppb at ISS-11S
0.7 ppb (ISS limit)
linear interpolation
Expon. (Series1)

M.O. 2/7/13
KR 2/7/13

Calculate propagation velocity of the plume front, knowing source concentration, time of release and concentration at a given point at the present. Knowing migration velocity, calculate distance to key concentration value at a given later time. From that, calculate distance that given concentration will propagate in given time interval.

Assume: - one-dimensional migration
- advective-dispersive transport, no degradation
- transient case

Known: - concentrations within the plume at the source and one additional point
- time of release

Calculate: - plume front migration velocity
- concentration profiles at given times

Basis: "Hydraulics of Groundwater"
J. Bear
McGraw-Hill, 1979

Concentration at distance "x" from source and time "t" after release (eq. 7-117, Hydraulics of GW, J.Bear

$$C(x,t) / C_0 = (1/2) \{erfc\{(x - Vt) / [2 (\alpha_L Vt)^{1/2}]\} + exp(1/\alpha_L) erfc\{(x + Vt) / [2 (\alpha_L Vt)^{1/2}]\}\}$$

Terms:
- $C(x,t)$ - concentration at a given distance from source and time since release
- x - distance from plume source
- t - time since release occurred
- C_0 - concentration of the source
- V - migration velocity
- α_L - longitudinal dispersivity

Data:

Concentration at source (ISS-1S):	C_1 =	37.3	ppb
Concentration at known point (ISS-11S):	$C(x,t)$ =	0.77	ppb
Distance from source to known point at ISS-11:	x_{ISS-11} =	38	ft
Time since release to present:	t =	50	yrs
Time from present to remedy implementaion:	t =	2	yrs

Calculate longitudinal dispersivity, from "Technical Protocol for Evaluation Natural Attenuation of Chlorinatec Solvents in Groundwater", EPA/600/R-98/128, based on eq. B.2.8. Assume plume length of 65 ft, based or concentration approximately equal to detection limit at ISS-12, located approximately 65 ft from MW-ISS-1

L_p = 65 ft = 19.8 m

$\alpha_L = 0.83 [\log(L_p)]^{2.414}$ = 1.6 m = 5.1 ft

Calculate migration velocity:

By trial and error, vary "V" until acceptable solution is achievec

$$C(x,t) / C_0 = (1/2) \{erfc\{(x - Vt) / [2 (\alpha_L Vt)^{1/2}]\} + exp(x/\alpha_L) erfc\{(x + Vt) / [2 (\alpha_L Vt)^{1/2}]\}\}$$

$$LEFT = C(x,t) / C_0$$

$$RIGHT = C(x,t) / C_0 = (1/2) \{erfc\{(x - Vt) / [2 (\alpha_L Vt)^{1/2}]\} + exp(x/\alpha_L) erfc\{(x + Vt) / [2 (\alpha_L Vt)^{1/2}]\}\}$$

$$ARG_1 = (x - Vt) / [2 (\alpha_L Vt)^{1/2}]$$

$$ARG_2 = (x + Vt) / [2 (\alpha_L Vt)^{1/2}]$$

$$RIGHT = (1/2) [erfc(ARG_1] + exp(x/\alpha_L) erfc(ARG_2)]$$

SOLUTION ACCOMPLISHED WHEN RIGHT ~ LEFT

ERROR = |100*(RIGHT-LEFT)/MIN(RIGHT,LEFT)|

LEFT	V	x - Vt	x + Vt	$2 (\alpha_L Vt)^{1/2}$	ARG_1	$erfc(ARG_1)$	ARG_2	$erfc(ARG_2)$	$exp(x/a_L)$	RIGHT	ERROR	
[-]	[ft/yr]	[ft]	[ft]	[ft]	[-]	[-]	[-]	[-]		[-]	[%]	
0.0206	0.252	25.4000	50.6000	16.0334	1.5842	0.0251	3.1559	8.08E-06	1720.0504	0.0195	6.0	
0.0206	0.253	25.3500	50.6500	16.0652	1.5779	0.0256	3.1528	8.25E-06	1720.0504	0.0199	3.7	
0.0206	0.254	25.3000	50.7000	16.0969	1.5717	0.0262	3.1497	8.42E-06	1720.0504	0.0204	1.4	
0.0206	0.255	25.2500	50.7500	16.1286	1.5655	0.0268	3.1466	8.59E-06	1720.0504	0.0208	0.8	X
0.0206	0.256	25.2000	50.8000	16.1602	1.5594	0.0274	3.1435	8.76E-06	1720.0504	0.0213	3.0	

V = 0.255 ft/yr

Calculate distance from the source to concentration equal to the ISS criterion of 0.7 ppb at time of ISS implementation:

By trial and error, as shown above, vary "x" until acceptable solution is achievec

$C(x,t)$ = 0.7 ppb

t = 52 yrs

LEFT	x	x - Vt	x + Vt	$2 (\alpha_L Vt)^{1/2}$	ARG	erfc(ARG)	ARG_2	$erfc(ARG_2)$	$exp(x/a_L)$	RIGHT	ERROR	
(-]	[ft]	[ft]	[ft]	[ft]	[-]	[-]	[-]	[-]		[-]	[%]	
0.0188	39.2	25.9400	52.4600	16.4480	1.5771	0.0257	3.1895	6.47E-06	2176.2870	0.0199	6.0	
0.0188	39.3	26.0400	52.5600	16.4480	1.5832	0.0252	3.1955	6.21E-06	2219.3753	0.0195	3.7	
0.0188	39.4	26.1400	52.6600	16.4480	1.5893	0.0246	3.2016	5.96E-06	2263.3167	0.0190	1.5	
0.0188	39.5	26.2400	52.7600	16.4480	1.5953	0.0241	3.2077	5.72E-06	2308.1281	0.0186	0.7	X
0.0188	39.6	26.3400	52.8600	16.4480	1.6014	0.0235	3.2138	5.49E-06	2353.8267	0.0182	2.9	

x_{impl} where (C = 0.7 ppb) = 39.5 ft

Distance from ISS-11 to the location of the of 0.7-ppb concentration at the time of remedy implementation (buffer zone for ISS):

$$d = x_{impl} - x_{ISS-11}$$

d = 39.5 ft - 38.0 ft = 1.5 ft

M.O. 2/7/13
KR 2/7/13

Calculate propagation velocity of the plume front, knowing source concentration, time of release anc concentration at a given point at the present. Knowing migration velocity, calculate distance to key concentratior value at a given later time. From that, calculate distance that given concentration will propagate in given time interval

Assume: - one-dimensional migration
- advective-dispersive transport, no degradation
- transient case

Known: - concentrations within the plume at the source and one additional point
- time of release

Calculate: - plume front migration velocity
- concentration profiles at given times

Basis: "Hydraulics of Groundwater"
J. Bear
McGraw-Hill, 1979

Concentration at distance "x" from source and time "t" after release (eq. 7-117, Hydraulics of GW, J.Bear)

$$C(x,t) / C_0 = (1/2) \{erfc\{(x - Vt) / [2 (\alpha_L Vt)^{1/2}]\} + exp(1/\alpha_L) erfc\{(x + Vt) / [2 (\alpha_L Vt)^{1/2}]\}\}$$

Terms:
- $C(x,t)$ - concentration at a given distance from source and time since release
- x - distance from plume source
- t - time since release occurred
- C_0 - concentration of the source
- V - migration velocity
- α_L - longitudinal dispersivity

Data:

Concentration at source (ISS-1S):	C_1 =	37.3	ppb
Concentration at known point (ISS-11S):	$C(x,t)$ =	0.77	ppb
Distance from source to known point:	x_{ISS-11} =	38	ft
Time since release to present:	t =	30	yrs
Time from present to remedy implementaion:	t =	2	yrs

Calculate longitudinal dispersivity, from "Technical Protocol for Evaluation Natural Attenuation of Chlorinated Solvents in Groundwater", EPA/600/R-98/128, based on eq. B.2.8. Assume plume length of 65 ft, based on concentration approximately equal to detection limit at ISS-12, located approximately 65 ft from MW-ISS-1.

L_p = 65 ft = 19.8 m

$\alpha_L = 0.83 [\log(L_p)]^{2.414}$ = 1.6 m = 5.1 ft

Calculate migration velocity:

By trial and error, vary "V" until acceptable solution is achieved

$$C(x,t) / C_0 = (1/2) \{erfc\{(x - Vt) / [2 (\alpha_L Vt)^{1/2}]\} + exp(x/\alpha_L) erfc\{(x + Vt) / [2 (\alpha_L Vt)^{1/2}]\}\}$$

$$LEFT = C(x,t) / C_0$$

$$RIGHT = C(x,t) / C_0 = (1/2) \{erfc\{(x - Vt) / [2 (\alpha_L Vt)^{1/2}]\} + exp(x/\alpha_L) erfc\{(x + Vt) / [2 (\alpha_L Vt)^{1/2}]\}\}$$

$$ARG_1 = (x - Vt) / [2 (\alpha_L Vt)^{1/2}]$$

$$ARG_2 = (x + Vt) / [2 (\alpha_L Vt)^{1/2}]$$

$$RIGHT = (1/2) [erfc(ARG_1) + exp(x/\alpha_L) erfc(ARG_2)]$$

SOLUTION ACCOMPLISHED WHEN RIGHT ~ LEFT

ERROR = |100*(RIGHT-LEFT)/MIN(RIGHT,LEFT)|

LEFT [-]	V [ft/yr]	x - Vt [ft]	x + Vt [ft]	$2 (\alpha_L Vt)^{1/2}$ [ft]	ARG_1 [-]	$erfc(ARG_1)$ [-]	ARG_2 [-]	$erfc(ARG_2)$ [-]	$exp(x/a_L)$	RIGHT [-]	ERROR [%]	
0.0206	0.423	25.3100	50.6900	16.0906	1.5730	0.0261	3.1503	8.38E-06	1720.0504	0.0203	1.9	
0.0206	0.424	25.2800	50.7200	16.1096	1.5693	0.0265	3.1484	8.49E-06	1720.0504	0.0205	0.5	X
0.0206	0.425	25.2500	50.7500	16.1286	1.5655	0.0268	3.1466	8.59E-06	1720.0504	0.0208	0.8	
0.0206	0.426	25.2200	50.7800	16.1475	1.5618	0.0272	3.1448	8.69E-06	1720.0504	0.0211	2.1	
0.0206	0.427	25.1900	50.8100	16.1665	1.5582	0.0276	3.1429	8.80E-06	1720.0504	0.0213	3.4	

V = 0.424 ft/yr

Calculate distance from the source to concentration equal to the ISS criterion of 0.7 ppb at time of ISS implementation

By trial and error, as shown above, vary "x" until acceptable solution is achieved

$C(x,t)$ = 0.7 ppb
t = 32 yrs

LEFT [-]	x [ft]	x - Vt [ft]	x + Vt [ft]	$2 (\alpha_L Vt)^{1/2}$ [ft]	ARG [-]	erfc(ARG) [-]	ARG_2 [-]	$erfc(ARG_2)$ [-]	$exp(x/a_L)$	RIGHT [-]	ERROR [%]	
0.0188	40.0	26.4320	53.5680	16.6379	1.5887	0.0247	3.2196	5.28E-06	2545.8500	0.0191	1.5	
0.0188	40.1	26.5320	53.6680	16.6379	1.5947	0.0241	3.2256	5.07E-06	2596.2553	0.0186	0.7	X
0.0188	40.2	26.6320	53.7680	16.6379	1.6007	0.0236	3.2317	4.87E-06	2647.6586	0.0182	2.9	
0.0188	40.3	26.7320	53.8680	16.6379	1.6067	0.0231	3.2377	4.68E-06	2700.0796	0.0179	5.1	
0.0188	40.4	26.8320	53.9680	16.6379	1.6127	0.0226	3.2437	4.49E-06	2753.5384	0.0175	7.4	

x_{impl} where (C = 0.7 ppb) = 40.1 ft

Distance from ISS-11 to the location of the of 0.7-ppb concentration at the time of remedy implementation (buffer zone for ISS]

$d = x_{impl} - x_{ISS-11}$

d = 40.1 ft - 38.0 ft = 2.1 ft

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Reference 1

JACOB BEAR

Department of Civil Engineering
Technion—Israel Institute of Technology
Haifa
Israel

Hydraulics of Groundwater

Case 5. Movement of a radioactive tracer in a semi-infinite column This is the case where the column ($x > 0$), initially at tracer concentration $C = 0$, is connected to a reservoir containing a tracer solution of constant concentration C_0. The flow in the column is maintained at a constant specific discharge q in the $+x$ direction. The tracer continuously undergoes radioactive decay.

The partial differential equation here is

$$\frac{\partial C}{\partial t} = D_h \frac{\partial^2 C}{\partial x^2} - \frac{q}{n}\frac{\partial C}{\partial x} - \lambda C \tag{7-130}$$

where $\lambda = \ln 2/T$ and T is the half-life of the radioactive tracer.

We *assume*, that at $x = 0$ the concentration immediately reaches its ultimate level C_0 upon commencement of flow. This is equivalent to an assumption that at $x = 0$, $\lim_{t \to 0} \partial C/\partial x = 0$. We refer to this condition as an assumption since from (7-71) it follows that at $x = 0$ the boundary condition should actually be

$$C_0 q = Cq - nD_h\, \partial C/\partial x$$

or (7-131)

$$q(C_0 - C) = -nD_h\, \partial C/\partial x$$

Accordingly, the initial and boundary conditions are

$$\begin{aligned} t \le 0, \quad & x \ge 0, \quad C = 0 \\ t > 0, \quad & x = 0, \quad C = C_0 \\ & x = \infty, \quad C = 0 \end{aligned} \tag{7-132}$$

By applying the Laplace transform to (7-130) and (7-132), we obtain the solution (Bear, 1972, p. 630)

$$C(x,t) = \frac{C_0}{2}\exp\left\{\frac{qx}{2nD_h}\right\}\cdot\left[\exp(-x\beta)\cdot\operatorname{erfc}\frac{x - [(q/n)^2 + 4\lambda D_h]^{1/2}\,t}{2[D_h t]^{1/2}} + \exp(\beta x)\cdot\operatorname{erfc}\frac{x + [(q/n)^2 + 4\lambda D_h]^{1/2}\,t}{2[D_h t]^{1/2}}\right] \tag{7-133}$$

where $\beta^2 = q^2/4n^2D_h^2 + \lambda/D_h$.

For $\lambda = 0$ (i.e., without radioactive decay), (7-133) reduces to

$$C(x,t) = \frac{C_0}{2}\left\{\operatorname{erfc}\frac{x - (q/n)\,t}{2[D_h t]^{1/2}} + \exp\left(\frac{qx}{nD_h}\right)\cdot\operatorname{erfc}\frac{x + (q/n)\,t}{2[D_h t]^{1/2}}\right\} \tag{7-134}$$

If we now introduce adsorption (see Case 2), (7-134) becomes

$$C(x,t) = \frac{C_0}{2}\left\{\operatorname{erfc}\frac{R_d x - (q/n)\,t}{2[R_d D_h t]^{1/2}} + \exp\left(\frac{qx}{nD_h}\right)\operatorname{erfc}\frac{R_d x + (q/n)\,t}{2[R_d D_h t]^{1/2}}\right\}. \tag{7-135}$$

Curves describing (7-134) are shown in Fig. 7-12. According to Ogata and Banks (1961), who also obtained (7-134), the second term in (7-134) may be neglected

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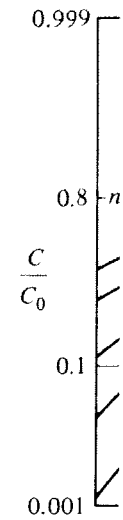

Figure 7-

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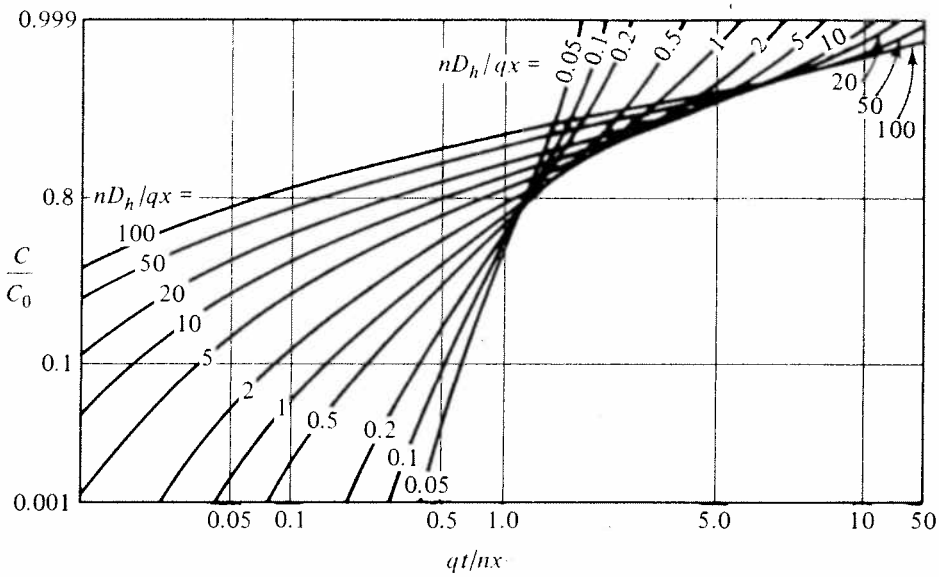

Figure 7-12 Graphical representation of (7-134) *(after Ogata and Banks, 1961)*.

when x/a_L is sufficiently large, a condition usually satisfied in the practice (e.g., an error of less than 3 percent when $x/a_L > 500$). The approximate form of (7-134) is then

$$C(x,t) = \frac{C_0}{2}\operatorname{erfc}\left\{\frac{x-(q/n)\,t}{2[D_h t]^{1/2}}\right\} \tag{7-136}$$

similar to (7-117).

Equation (7-134) is also an approximation of (7-133) when $4\lambda D_h n^2/q^2 \ll 1$. When molecular diffusion is neglected (justified when $D_d^* \ll a_L q/n$), D_h reduces to $a_L q/n$. Then the parameter $4\lambda a_L n/q$ is a criterion for the relative importance of the radioactive decay.

When the second term of (7-133) may be neglected, we obtain

$$C(x,t) = \frac{C_0}{2}\exp\left\{\frac{qx}{2nD_h}\left[1-\left(1+\frac{4\lambda D_h n^2}{q^2}\right)^{1/2}\right]\right.$$
$$\left.\times\operatorname{erfc}\left\{\frac{x-(q/n)\,[1+4\lambda D_h n^2/q^2]^{1/2}t}{2[D_h t]^{1/2}}\right\}\right. \tag{7-137}$$

All these results can always be modified to include also adsorption, described by an equilibrium isotherm, by replacing D (in the absence of molecular diffusion) by D/R_d and q/n by q/nR_d.

As $t \to \infty$, (7-137) reduces to

$$C(x) = C_0\exp\left\{\frac{qx}{2nD_h}\left[1-(1+4\lambda D_h n^2/q^2)^{1/2}\right]\right\} \tag{7-138}$$

which is also the steady state solution of the dispersion equation.

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TECHNICAL PROTOCOL FOR EVALUATING NATURAL ATTENUATION OF CHLORINATED SOLVENTS IN GROUND WATER

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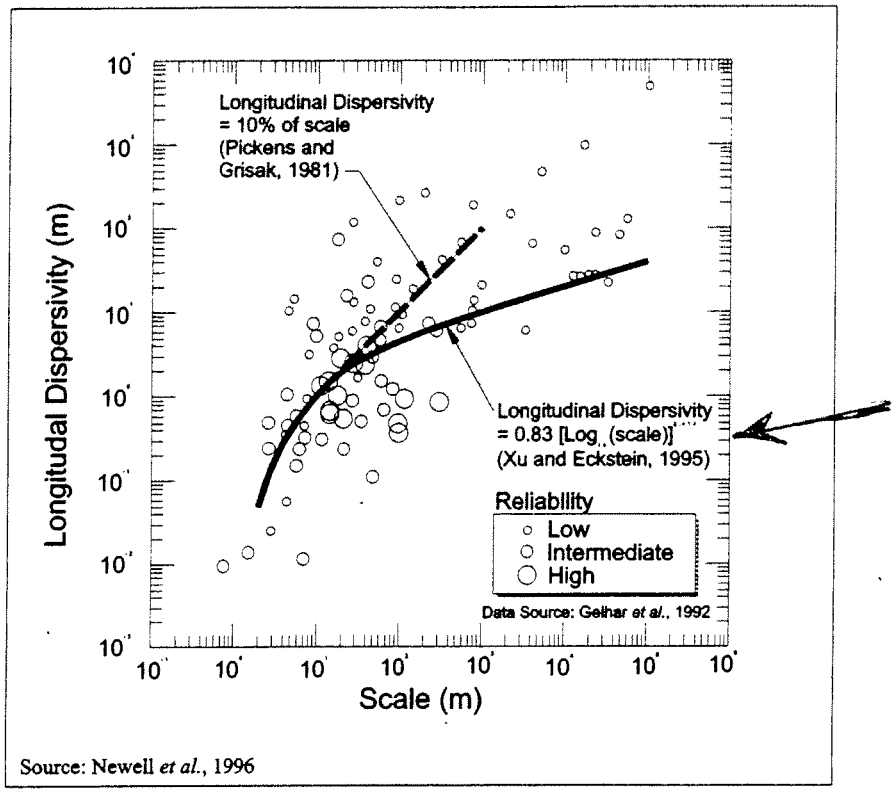

Figure B.2.7 Relationship between dispersivity and scale.

Where:

v_x = average linear velocity [L/T]
C = contaminant concentration [M/L^3]
D_x = hydrodynamic dispersion [L^2/T]
t = time [T]
x = distance along flow path [L]

This equation considers both advection and hydrodynamic dispersion. Because of sorption and biodegradation, this equation generally must be combined with the other components of the modified advection-dispersion equation presented as equation B.1.1 to obtain an accurate mathematical description of solute transport.

B.2.3 SORPTION

Many organic contaminants, including chlorinated solvents and BTEX, are removed from solution by sorption onto the aquifer matrix. Sorption is the process whereby dissolved contaminants partition from the ground water and adhere to the particles comprising the aquifer matrix. Sorption of dissolved contamination onto the aquifer matrix results in slowing (retardation) of the contaminant relative to the average advective ground-water flow velocity and a reduction in dissolved BTEX concentrations in ground water. Sorption can also influence the relative importance of volatilization and biodegradation (Lyman *et al.*, 1992). Figures B.2.8 and B.2.9 illustrate the effects of sorption on an advancing solute front.

Keep in mind that sorption is a reversible reaction and that at a given solute concentration, some portion of the solute is partitioning to the aquifer matrix and some portion is also desorbing and reentering solution. As solute concentrations change, the relative amounts of contaminant that are sorbing and desorbing will change. For example, as solute concentrations decrease (perhaps due to