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**APPENDIX III**  
**SEDIMENT FIELD DATA SHEETS**

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# Sediment Data Sheet

Project Name: Eliot Ditch  
Project Number: 172-367  
Field Location ID: ED-0008-SP02  
Core Type: Sediment - Peat Borer  
Field Remarks:  
Northing: (ft)  
Easting (ft):

Cored By: SMF/MKD/LDC/JAS  
Cored Date: 10/30/2017  
Described By: MKD/JAS  
Described Date: 10/30/2017

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
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Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
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2.45	2.03	83%
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Pictures 1-8

11:20 - 11:43am

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_



# Sediment Log

Client: CEC / Arconic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 10/30/2017

Location ID: ED-00.08-SDOZ Interval: 0 ft to 0.45 ft

Layer: 1 of 4

Gap: 0.42 ft

Sediment Color: 5Y2.5/1  
 2nd Sediment Color: 5Y 2.5/1

**Lab Data**

Duplicates?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 1 Jar  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: coarse sand  
 USCS Texture: SP

**Structure**

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input checked="" type="checkbox"/> Single Grain	<input type="checkbox"/> Structureless
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other	

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

### Other Characteristics

**Roots?**

Few  
 Common  
 Many

**Wood?**

Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

**Rocks?**

<15%  
 15-35%  
 35-60%  
 60-80%  
 >80%

**Wood %** 15 %

**Odor?**

Petrochemical  
 Sulfur  
 Other organic

Shells?  Plant Fragments?

**Sublayers?**

<0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

**Notes**

TM?  Lacustrine?  Sand/gravel bed?

### Field Personnel

Logged By: MKD  
 Data Entry By:  Same as above  
 JAS

**Sample Remarks**

**Internal Remarks**

10/30 1120

Color   
 USDA Texture

Client: CEC/Arcadis  
 Site Name: Elliot Ditch  
 Project Name: 17a-367  
 Task #: 0002  
 Log Date: 10/30/2017

Location ID: ED-00.08 - S002

Interval: 0.45 ft to 0.75 ft

Layer: 2 of 4      Gap: 0.48 ft

Sediment Color: N 2.5 (Black)      2nd Sediment Color: N 2.5 (Black)

**Lab Data**

Duplicate?       Grab?       Composite?

Matrix:  Sediment       Soil       Air       Water

# of Containers: 1

Priority:  Urgent (1)       Standard (2)       As Able (3)       As Needed (4)

**Texture**

USDA Texture: Loamy sand

USCS Texture: SM

**Structure**

Type:  Granular       Subangular Blocky       Angular Blocky       Single Grain       Massive       Other: \_\_\_\_\_

Grade:  Weak       Moderate       Strong

Structureless

**Plasticity**

Non-plastic       Slightly Plastic       Moderately Plastic       Very Plastic

**Other Characteristics**

Rocks?  Few       Common       Many

Rocks?  <15% (None)       15-35%       35-60%       60-90%       ≥90%

Odor?  Petrochemical       Sulfur       Other organic

Wood?  Wood       Black Wood       Burned Wood       Sawdust       Wood Chips       Wood Pulp       Charcoal

Wood %: 5 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft       0.05-0.1 ft       0.1-0.2 ft       0.2-0.5 ft       >0.5 ft

Color: \_\_\_\_\_      USDA Texture: \_\_\_\_\_

**Field Personnel**

Logged By: mkd

Data Entry By:  Same as above       JAS

**Internal Remarks**

10/30 1125

**Notes**

Tim?       Lacustrine?       Sand/gravel bed?

Client: Cec/Arronic  
 Site Name: Ellint Ditch  
 Project Name: 17A-367  
 Task #: 0002  
 Log Date: 10/30/2017

Location ID: ED-0A.08 - SDO2

Interval: 0.75 ft to 1.4 ft

Layer: 3 of 4 Gap: 0.42 ft

**Lab Data**

Duplicate?  - FD  
 Grab?   
 Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 2 JARS

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

Sediment Color: 5Y 4/1  
 2nd Sediment Color: 5Y 4/1

Color

Texture: Sand 40-50% silt 30% clay 15-20  
loamy sand

USDA Texture: SM

USCS Texture: SM

**Structure**

Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other: \_\_\_\_\_

Grade:  Weak  
 Moderate  
 Strong

structureless

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**

Roots?  Few  
 Common  
 Many  
None

Rocks?  <15% NONE  
 15-35%  
 35-60%  
 60-90%  
 >90%

Odor?  Petrochemical  
 Sulfur  
 Other None

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood % 0 %

Sheets?  Plant Fragments?   
None None

Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Color: \_\_\_\_\_  
 USDA Texture: None

Notes:  Tilt?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: MKD  
 Data Entry By:  Same as above  
 JAS

**Sample Remarks**

**Internal Remarks**

10/30 1130

Client: CEC/Arconic  
 Site Name: Elliott bldg  
 Project Name: 072-367  
 Task #: 0007  
 Log Date: 10/30/2017

Location ID: ED-00.08-SD02 Interval: 1.4 ft to 2.03 ft

Layer: 4 of 4 Gap: 0.42 ft

Sediment Color: 5Y 4/2  
 2nd Sediment Color: 2.5Y 2.5/1

**Lab Data**

Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 1 jar  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

80 sand 15-20 silt  
 USDA Texture: loamy sand  
 USCS Texture: SM

**Structure**

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input checked="" type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other:	

Structureless

**Plasticity**

<input type="checkbox"/> Non-plastic	<input checked="" type="checkbox"/>
<input type="checkbox"/> Slightly Plastic	
<input type="checkbox"/> Moderately Plastic	
<input type="checkbox"/> Very Plastic	

**Other Characteristics**

Rocks?  Few  None  
 Common  
 Many

Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%

Odor?  Petrochemical  
 Sulfur  
 Other

Shells?  None  Plant Fragments?  None

Sublayers?  <0.05 ft Color: 2.5Y 8/1  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood %  0 %

USDA Texture: coarse sand

**Field Personnel**

Logged By: MKD  
 Data Entry By:  Same as above  
 JAS

**Sample Remarks**

Internal Remarks: 10/30 1146

**Notes**

TM?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name: Elliot Ditch  
 Project Number: 172-367  
 Field Location ID: ED-00.25-SD01  
 Core Type: Russian Peat Borer, push & hammer  
 Field Remarks: used same hole for all 3 cores sediment  
 Northing: (ft)  
 Easting: (ft)

Cored By: LDC/JAS  
 Cored Date: 11/1/2017 (11:46-12:19)  
 Described By: JAS  
 Described Date: 11/1/2017  
 Poked 4.3 ft

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-1.65'	1.35'	82%	
1.65'-3.30'	1.65'	100%	
3.30-4.30'	1.00'	100%	
0-4.30'	4.00	93%	overall

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



# Sediment Log

Client: CEC / Accorac  
 Site Name: Flood Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/1/17

Location ID: ED-0025 S001 Interval: 0 ft to 0.5 ft

Layer: 1 Gap:      ft

Color

Sediment Color: 2.5Y 3/2  
 2nd Sediment Color: 2.5Y 3/2

### Lab Data

Duplicates?   
 Grab?   
 Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 1

Priority:

Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

### Texture

USDA Texture: Loamy Sand

USCS Texture: SW

### Structure

Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other: structureless

Grade:  Weak  
 Moderate  
 Strong

### Plasticity

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

### Field Personnel

Logged By: JAS  
 Data Entry By:  Same as above  
 DAK/JAS

### Other Characteristics

Roots?  Few None  
 Common  
 Many

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Rocks?  <15% None  
 15-35%  
 35-60%  
 60-90%  
 ≥90%

Shells?  Plant Fragments?

Odor?  Petrochemical  
 Sulfur  
 Other

Sublayers?  <0.05 ft None Color       
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

### Sample Remarks

11/1 11.46

### Internal Remarks

TI#?  Lacustrine?  Sand/gravel bed?

### Notes

USDA Texture





TETRA TECH

# Sediment Log

Version 1.2, 1/20/16

Client: CEC / Arcovici  
 Site Name: Elliott Ditch  
 Project Name: 172367  
 Task #: 002  
 Log Date: 11/11/17

Location ID: ED-00.25SD01 Interval: 0.57 ft to 3.9 ft

Layer: 2 Gap:  ft

Color

Sediment Color: 2.5Y 2.5/1  
 2nd Sediment Color: 2.5Y 2.5/1

### Lab Data

Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

### Texture

USDA Texture: Loam, Coarse Sand

USCS Texture: SW

### Type

Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other

### Structure

Grade  
 Weak  
 Moderate  
 Strong

### Plasticity

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

### Other Characteristics

Roots?  Few  Common  Many  
 Rocks?  <15%  
 15-35%  
 35-60%  
 60-80%  
 >80%  
 Odor?  Petrochemical  
 Sulfur  
 Other  
 Note

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Note

Color

### Notes

Thin?  Lacustrine?  Sand/gravel bed?

### Field Personnel

Logged By: JAS

Data Entry By:  Same as above  WCC / JSAK

### Sample Remarks

11/1 12:01

### Internal Remarks

N/A

USDA Texture

N/A



# Sediment Log

Location ID: ED-002S-SD01 Interval: 351 ft to 43 ft

Client: CEC/Arconic  
Site Name: Elliott Ditch  
Project Name: 172 367  
Task #: 0002  
Log Date: 11/1/17

Layer: 3  
Gap: [ ] ft

Color

Sediment Color: 5Y 2.5/2  
2nd Sediment Color: 2.5/N 13d

Lab Data  
Duplicate?  FD  
Grab?   
Composite?   
Matrix:  Sediment  
 Soil  
 Air  
 Water  
# of Containers: 2

Texture  
USDA Texture: sandy clay  
USCS Texture: CH  
Type  
 Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other: structureless  
Structure  
Grade  
 Weak  
 Moderate  
 Strong

Plasticity  
Non-plastic   
Slightly Plastic   
Moderately Plastic   
Very Plastic

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)  
Field Personnel  
Logged By: JAS  
Data Entry By: Same as above  
 [Signature]

Other Characteristics  
Rocks?  Few None  
 Common  
 Many  
Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%  
Odor?  Petrochemical  
 Sulfur  
 Other None  
Notes  
Tim?  Lacustrine?  Sand/gravel bed?   
Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft  
Color: 5Y 5/2  
USDA Texture: Clay with medium gravel

Internal Remarks  
11/1 12:19

Sample Remarks  
Sublayer appears thin at a thickness of 0.08 ft

# Sediment Data Sheet

**Project Name:** Elliot Ditch  
**Project Number:** 172-367  
**Field Location ID:** ED-00.39-SDD2  
**Core Type:** Russian Peat Borer / Push & Hammer  
**Field Remarks:** used same hole for all 3 cores  
**Northing: (ft)**  
**Easting (ft):**

**Cored By:** LDC/JAS (13:35-14:00)  
**Cored Date:** 11/1/2017  
**Described By:** JAS  
**Described Date:** 11/1/2017  
 poled 4.3 ft

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-1.65	1.50	91%	push
1.65-3.30	1.60	97%	push
3.30-4.30	1.00	100%	push, little hammer
0-4.30	4.10	95%	overall

**Reviewed By** \_\_\_\_\_ **Date** \_\_\_\_\_



# Sediment Log

1.65  
1.55  
2.20

Client: CEC / Arionix  
 Site Name: Ellisht Ditch  
 Project Name: 172 367  
 Task #: 60002  
 Log Date: 11/1/17

Location ID: ED-0039-SD02 Interval: 0 ft to 2.20 ft

Layer: 1 ft  
 Gap:          ft

Sediment Color: 10YR 2/2  
 2nd Sediment Color: 10YR 3/4

**Lab Data**

Duplicate?  MS/USD  
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 3  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Structure**

Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:         

Grade:  Weak  
 Moderate  
 Strong

**Texture**

USDA Texture: loamy coarse sand  
 USCS Texture: SM

**Other Characteristics**

Wood?  Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal  
 Wood % 5%  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft  
 Color:           
 USDA Texture: N/A

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

Roots?  Few None  
 Common  
 Many  
 Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%  
 Odor?  Petrochemical  
 Sulfur  
 Other None

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  
 LDC

**Internal Remarks**

11/1 1335

**Notes**

Tin?  Lacustrine?  Sand/gravel bed?



# Sediment Log

Version 1.2, 11/2016

Client: CEC / Arroyo  
 Site Name: Ellisett Ditch  
 Project Name: F72 367  
 Task #: 0002  
 Log Date: 11/17

Location ID: ED-00.39-SD02 Interval: 2.70 ft to 2.41 ft

Layer: 2 Gap:      ft

Sediment Color: 2.5Y 4/3 2nd Sediment Color: 2.5Y 4/3

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Sandy Clay loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: structureless

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 % Plant Fragments?

Shells?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: None USDA Texture:     

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  LOC / BAK / JAS

**Sample Remarks**

Clay flocculent

**Internal Remarks**

11/17 13210

**Notes**

T1H?  Lscustrine?  Sand/gravel bed?



# Sediment Log

Version 1.2, 1/20/16

Client: CEC / Arconic  
 Site Name: Elliot Ditch  
 Project Name: 172 367  
 Task #: 0002  
 Log Date: 11/1/17

Location ID: ED-0039-SD02 Interval: 2.41 ft to 3.54 ft

Layer: 3 Gap:          ft

Sediment Color: 2.5Y 2.5/1 2nd Sediment Color: 5Y 6/3

**Lab Data**

Duplicates?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Sandy Clay with fine shell

USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:         

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other

Shells?  Plant Fragments?

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 2.5Y (black)

USDA Texture: clay

**Notes**

TIH?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  LA

**Sample Remarks**

N/I 1349

Client: CEC / Arconic  
 Site Name: Ellett Ditch  
 Project Name: 172 367  
 Task #: 0002  
 Log Date: 11/17

Location ID: ED-00, 34-SD02 Interval: 3.54 ft to 4.30 ft

Layer: 4 Gap:      ft

Sediment Color: 2.5/1 (2.5/10) Color:       
 2nd Sediment Color: 5Y 6/3

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty Clay

USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: structureless

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %      %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 2.5/1 2.5/1 USDA Texture: Coarse Sandy loam

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  WOC / BAK / JAS

**Sample Remarks**

Internal Remarks: 11/1 14:00

**Notes**

Tuff?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name: Elliot Ditch  
Project Number: 172-367  
Field Location ID: ED-00.47-SD02  
Core Type: sediment-Russian Reat Borer  
Field Remarks:  
Northing: (ft)  
Easting (ft):

Cored By: SMF  
Cored Date: 10/30/17  
Described By: JAS/MKD  
Described Date: 10/30/17



Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
3.3	3.13	95%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_







TETRA TECH

# Sediment Log

Version 1.2, 1/20/15

Client: CEC/Alconic  
 Site Name: Elliot Ditch  
 Project Name: 17Z-367  
 Task #: 0002  
 Log Date: 10/30/2017

Location ID: ED-00.47-SDOZ Interval: 0.33 ft to 1.46 ft

Layer: 2 of 4

Gap: 0.17 ft

Sediment Color: N2.5 (black)      2nd Sediment Color: N2.5 (black)

Texture: Silty clay

USDA Texture: CL

USCS Texture: CL

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	<input checked="" type="checkbox"/> structureless X
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other: _____	

Lab Data

Duplicate?

Grab?

Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

Plasticity

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

Other Characteristics

Roots?	<input checked="" type="checkbox"/> Few <u>None</u> <input type="checkbox"/> Common <input type="checkbox"/> Many	Wood?	<input type="checkbox"/> Wood <input type="checkbox"/> Black Wood <input type="checkbox"/> Burned Wood <input type="checkbox"/> Sawdust <input type="checkbox"/> Wood Chips <input type="checkbox"/> Wood Pulp <input type="checkbox"/> Charcoal
Rocks?	<input checked="" type="checkbox"/> <15% <input type="checkbox"/> 15-35% <input type="checkbox"/> 35-60% <input type="checkbox"/> 60-80% <input type="checkbox"/> >80%	Wood %	<input type="checkbox"/> _____ %
Odor?	<input checked="" type="checkbox"/> Petrochemical <input type="checkbox"/> Sulfur <input type="checkbox"/> Other	Shells?	<input type="checkbox"/> Plant Fragments? <input type="checkbox"/> <u>none</u>
		Sublayers?	<input type="checkbox"/> <0.05 ft      Color _____ <input type="checkbox"/> 0.05-0.1 ft      _____ <input type="checkbox"/> 0.1-0.2 ft      _____ <input type="checkbox"/> 0.2-0.5 ft      _____ <input type="checkbox"/> >0.5 ft      _____

USDA Texture: None

Field Personnel

Logged By: JAS

Data Entry By:  Same as above  
 MKD

Sample Remarks

Internal Remarks: 10/30 1415

Notes

TII?       Lacustrine?       Sand/gravel bed?



# Sediment Log

VERSION 1.2, 1/20/16

Client: CEC/Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 002  
 Log Date: 10/30/2017

Location ID: FD-00.47-SDOZ Interval: 1.46 ft to 1.96 ft

Layer: 3 of 4 Gap: 0.17 ft

Sediment Color: 5Y2.5/2 2nd Sediment Color: 5Y2.5/2

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Coarse Sand

USCS Texture: SP

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_

Grade:  Weak  Moderate  Strong Structureless X

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells? None  Plant Fragments?  possibly

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: \_\_\_\_\_ USDA Texture: None

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  MKD

**Sample Remarks**

Internal Remarks: 10136 1420

These were leaves at top of core however we think they got caught in instrument when it was pushed down through sediment

**Notes**

TH?  Lacustrine?  Sand/gravel bed?

Location ID: ED-00.47-SD02 Interval: 1.96 ft to 3.13 ft

Client: CEC/Akronic  
 Site Name: Eliot Ditch  
 Project Name: 172-367  
 Task #: 000Z  
 Log Date: 10/30/2017

Layer: 4 of 4 Gap: 0.17 ft

Sediment Color: 10Y 3/1 Color: N 2.5 (Black)

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty clay

USCS Texture: CL

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong Structureless X

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few NONE  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NONE

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %  %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color  USDA Texture

Notes:  Tilt?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  MKD

**Sample Remarks**

Internal Remarks: 10/30 1425

# Sediment Data Sheet

Project Name: Elliot Ditch  
 Project Number: 172-367  
 Field Location ID: ED-00.51-SD02  
 Core Type: Russian peat borer, push & hammer  
 Field Remarks: The 2nd core was mostly a very liquidy slurry.  
 Northing: (ft)  
 Easting (ft):

Cored By: LDC/BAK  
 Cored Date: 11/1/2017  
 Described By: JAS  
 Described Date: 11/1/2017

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0 - 1.65'	1.65'	100%	
1.65 - 2.30'	1.65'	254%	
1.65 - 1.75'	0.1	690	competent material (above slurry as noted above)

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



# Sediment Log

Version 1.2, 11/20/16

Client: CEC / Arconic  
 Site Name: Elliot Ditch  
 Project Name: 17a-367  
 Task #: 0002  
 Log Date: 11/1/2017

Location ID: ED-00.51-SD02 Interval: 0 ft to 0.36 ft

Layer: 1 ft Gap:      ft

Color 10YR 3/4  
 Sediment Color: 10YR 3/4  
 2nd Sediment Color: 10YR 3/4

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: loamy coarse sand

USCS Texture: SW

**Structure**

Granular	<input type="checkbox"/>
Subangular Blocky	<input type="checkbox"/>
Angular Blocky	<input type="checkbox"/>
Single Grain	<input checked="" type="checkbox"/>
Massive	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Grade: Weak  Moderate  Strong  Structureless

**Plasticity**

Non-plastic	<input checked="" type="checkbox"/>
Slightly Plastic	<input type="checkbox"/>
Moderately Plastic	<input type="checkbox"/>
Very Plastic	<input type="checkbox"/>

**Other Characteristics**

Roots?  Few NONE  Common  Many

Rocks?  <15% NONE  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NONE

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 3 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color      USDA Texture N/A

**Field Personnel**

Logged By: JAS

Date Entry By:  Same as above  LOC

**Sample Remarks**

11/1 14:40

**Internal Remarks**

Tin?  Lacustrine?  Sand/gravel bed?

**Notes**



# Sediment Log

Version 1.2, 1/30/16

Client: REC / Arconic  
 Site Name: Ellet Ditch  
 Project Name: 172 367  
 Task #: 0002  
 Log Date: 11/1/17

Location ID: ED-00.51-S002 Interval: 0.36 ft to 0.68 ft

Layer: 2 ft  
 Gap:          ft

Sediment Color: 10YR 2/2  
 2nd Sediment Color: few mottles 10YR 4/6

**Lab Data**

Duplicate?   
 Grab?   
 Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: sandy clay loam  
 USCS Texture: MH

**Type**

Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:         

**Structure**

Grade: structureless  
 Weak  
 Moderate  
 Strong

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

### Other Characteristics

**Roots?**  Few NONE  
 Common  
 Many

**Rocks?**  <15% NONE  
 15-35%  
 35-60%  
 60-90%  
 >90%

**Odor?**  Petrochemical  
 Sulfur  
 Other NONE

**Wood?**  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood %: 3 %

Shells?  Plant Fragments?

**Sublayers?**  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Color:           
 USDA Texture: N/A

### Field Personnel

Logged By: JAS  
 Data Entry By:  Same as above  
 LOC

### Internal Remarks

Sample Remarks:           
 Internal Remarks: 11/1/17 1445

### Notes

Till?  Lacustrine?  Sand/gravel bed?

# Sediment Log

Client: CEC/ARRONIC  
 Site Name: Firefly Ditch  
 Project Name: 172 367  
 Task #: 0002  
 Log Date: 11/11/17

Location ID: CD-00-51-5002 Interval: 0.68 ft to 1.65 ft

Layer: 3 Gap:      ft

Sediment Color: 2.5/N (black) Color:       
 2nd Sediment Color: 2.5/N black

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:     

Grade:  Weak  Moderate  Strong  Structureless

**Texture**

USDA Texture: very fine sandy loam

USCS Texture: ML

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  None  Common  Many

Rocks?  <15%  None  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other None

Shells?  Plant Fragments?

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 15 %

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 7.5YR4/6

USDA Texture: loamy coarse sand

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  LOC/JAS

**Internal Remarks**

Sample Remarks:     

Internal Remarks: 11/1 1450

**Notes**

Tin?  Lacustrine?  Sand/gravel bed?





# Sediment Log

Client: CEC/Arconic  
 Site Name: Elvert Ditch  
 Project Name: 17a-367  
 Task #: 0002  
 Log Date: 11/1/2017

Location ID: FED-00.51-SD08 Interval: 1.65 ft to 1.75 ft

Layer: 4 Gap:          ft

Color

Sediment Color: 2.5 | 1 (2.5/104)  
 2nd Sediment Color: 2.5/1 (2.5/104)

### Lab Data

Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
            Soil  
            Air  
            Water  
 # of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

### Field Personnel

Logged By: JAS  
 Data Entry By:  Same as above  
 LOC

### Texture

USDA Texture: fine sandy loam  
 USCS Texture: ML

### Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u>        </u>	

*Structureless*

### Plasticity

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

### Other Characteristics

Rocks?  Few None  
 Common  
 Many

Rocks?  <15% None  
 15-35%  
 35-60%  
 60-90%  
 >90%

Odor?  Petrochemical  
 Sulfur  
 Other None

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood % 3 %

Color           
 USDA Texture N/A

### Notes

Tim?  Lacustrine?  Sand/gravel bed?

### Internal Remarks

11/1 1455

# Sediment Data Sheet

Project Name: Elliot Ditch  
 Project Number: 172-367  
 Field Location ID: ED-00.60-SD02  
 Core Type: Russian Peat Borer/Hammer  
 Field Remarks: sediment  
 Northing: (ft)  
 Easting: (ft)

Cored By: SMF/LDC/JAS  
 Cored Date: 10/31/2017 11:40-11:45  
 Described By: JAS  
 Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
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Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

st 0-1.65	1.53	93%	11:45 AM
rd 1.65-3.30	1.65	100%	12:09 PM
0-3.30	3.17	96% overall	

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_



# Sediment Log

Version 1.2, 11/20/16

Client: Cec/Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172 367  
 Task #: 2002  
 Log Date: 11/2/17

Location ID: ED-00.60-SDG2 Interval: 0 ft to 1.76 ft

Layer: 1 Gap: 0.12 ft

Sediment Color: 10YR 3/2 2nd Sediment Color: 2.5N (black)  
*grades downward*

**Lab Data**

Duplicate?  NS/MSD  
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 3  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: loamy coarse sand  
 USCS Texture: SW

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_  
 Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few None  Common  Many  
 Rocks?  <15%  15-35%  35-60%  60-90%  >90%  
 Petrochemical Sulfur  Other None  
 Odor?  Slight  Moderate  Strong  
 Roots?  Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood % 0 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color: \_\_\_\_\_  
 USDA Texture: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
 Tilt?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  LDC

**Sample Remarks**

Internal Remarks: 10/31 1140



TETRA TECH

# Sediment Log

Version 1.2, 1/20/16

Client: CEC / Arconic  
 Site Name: Elliot Ditch  
 Project Name: 172 367  
 Task #: 0002  
 Log Date: 11/2/17

Location ID: ED-00-60-SD02 Interval: 1.76 ft to 2.22 ft

Layer: 2 Gap: 0 ft

Sediment Color: 5Y 3/1 2nd Sediment Color: 2.5Y 4/2

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy clay

USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NONE

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 2.5Y 4/1 USDA Texture: loamy coarse sand

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  LDC

**Sample Remarks**

Sublayer located @ bottom of layer 2 (0.04ft)

**Internal Remarks**

10/31 11:41

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Client: Cec / Arcenic  
 Site Name: Elliott Ditch  
 Project Name: 172 367  
 Task #: 0007  
 Log Date: 11/2/17

Location ID: ED-00.60-SD02 Interval: 2.22 ft to 2.39 ft

Layer: 3 Gap: 0 ft

Sediment Color: 2.5/N (black) 2nd Sediment Color:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: silty clay

USCS Texture: 0

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few None  Common  Many

Rocks?  <15% None  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture: NIA

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  WPC

**Internal Remarks**

Sample Remarks: 10131 1142

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Client: CCC / Arcovis  
 Site Name: Elliot Ditch  
 Project Name: 172 367  
 Task #: 0002  
 Log Date: 11/2/17

Location ID: ED-00.60-SD07 Interval: 2.39 ft to 2.63 ft

Layer: 4 Gap: 0 ft

Color

Sediment Color: 2.5-5/4 2nd Sediment Color:                     

**Lab Data**

Duplicate?  Grab?  Composite?   
 Matrix:  Sediment  Soil  Air  Water   
 # of Containers:                     

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy clay  
 USCS Texture: CH

**Type**

Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:                     

**Structure**

Weak  
 Moderate  
 Strong

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Very Fine  
 Fine  
 Medium  
 Coarse  
 Very Coarse

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  LDC

Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 ≥90%

Fine Gravel  
 Medium Gravel  
 Coarse Gravel  
 Cobbles

Wood %                     %  
 Shells?  Plant Fragments?

Sample Remarks:                     

Odor?  Petrochemical  
 Sulfur  
 Other None

Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Color                     

**Notes**

TH#?  Lacustrine?  Sand/gravel bed?

USDA Texture N/A

Internal Remarks: 10/31 1143

Client: CEC / Arcenic  
 Site Name: Ellyott Ditch  
 Project Name: 172 367  
 Task #: 0007  
 Log Date: 11/2/17

Location ID: CD-00.60-SD02 Interval: 2.63 ft to 3.3 ft

Layer: S Gap: 0 ft

Color

Sediment Color: 5Y 2.5/1  
 2nd Sediment Color: 2.5Y 4/4  
*grades downward in color to ↑*

Lab Data

Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

Field Personnel

Logged By: JAS  
 Data Entry By:  Same as above  
 LOX

Texture

USDA Texture: loamy sand  
 USCS Texture: SW

Structure

Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other: \_\_\_\_\_  
 Grade:  Weak  
 Moderate  
 Strong

Other Characteristics

Roots?  Few None  
 Common  
 Many  
 Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%  
 Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal  
 Wood %: 0 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft  
 Color: \_\_\_\_\_  
 USDA Texture: \_\_\_\_\_

Notes

Till?  Lacustrine?  Sand/gravel bed?

Sample Remarks

Internal Remarks: 10/31 1144

# Sediment Data Sheet

Project Name: Elliot Ditch  
 Project Number: 172-367  
 Field Location ID: ED-00.72-SD03  
 Core Type: Russian Peat Borer  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: SMF/LDC/JAS  
 Cored Date: 10/31/2017  
 Described By: JAS  
 Described Date: 10/31/2017

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-1.65			<sup>core type</sup> Russian Peat Borer/ Push sediment	<sup>time</sup> (13:15)	
1.65-3.30			Russian Peat Borer/ Push Sediment	(13:25)	
3.30-4.30			Russian Peat Borer/ Hammer Sediment	(13:44)	

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
st 0-1.65	1.37	83%	Had full recovery, but top washed out
nd 1.65-3.30	1.65	100%	
rd 3.30-4.30	1.0	100%	

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



Client: Cec/Arcenic  
 Site Name: Elliott Ditch  
 Project Name: 17a-367  
 Task #: 0002  
 Log Date: 10/31/2017

Location ID: ED-00.7a-SD03 Interval: 0.0 ft to 2.06 ft

Layer: 1 Gap: 0.28 ft

Color

Sediment Color: Gley 1 (2.5/10Y)  
 2nd Sediment Color: Gley 1 (2.5/10Y)

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Loamy coarse sand

USCS Texture: SW

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

Structureless

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

**Roots?**  Few None  Common  Many

**Rocks?**  <15%  15-35%  35-60%  60-90%  >90%

**Odor?**  Petrochemical  Sulfur  Other None

**Shells?**  Plant Fragments?

**Sublayers?**  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

**Wood?**  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

**Wood %**  %

**Color**  USDA Texture N/A

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above

**Internal Remarks**

13:15  
10/31

**Notes**

TIN?  Lacustrine?  Sand/gravel bed?

Client: CEC / Arroyo  
 Site Name: Elisatt Ditch  
 Project Name: 172-367  
 Task #: 002  
 Log Date: 10/31/2017

Location ID: GD-0072-SD03 Interval: 2.06 ft to 2.40 ft

Layer: 2 Gap: 0.28 ft

Color

Sediment Color: 2.5Y 4/2 2nd Sediment Color: Grey 3/N

**Lab Data**

Duplicate?  Gmb?  Composite?   
 Matrix:  Sediment  Soil  Air  Water   
 # of Containers: 1  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy clay  
 USCS Texture: CH

**Type**

Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

**Structure**

structureless

**Grade**

Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Very Fine  Fine  Medium  Coarse  Very Coarse  Fine Gravel  Medium Gravel  Coarse Gravel  Cobbles

Wood % 0 %

Shells?  Plant Fragments?

Odor?  Petrochemical  Sulfur  Other

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

**Internal Remarks**

13.25  
10/31

**Sample Remarks**

LDC/SAS

**Notes**

X None

TIF?  Lacustrine?  Sand/gravel bed?

USDA Texture

Color N/A



# Sediment Log

Version 1.2, 1/20/16

Client: CCC / Arconic  
 Site Name: Elliott Ditch  
 Project Name: F72-367  
 Task #: 0607  
 Log Date: 10/31/17

Location ID: CD-06.72-SD03 Interval: 2.40 ft to 3.50 ft

Layer: 3 Gap: ft

Color

Sediment Color: 2.5Y 3/2 2nd Sediment Color: 2.5Y (black)

**Lab Data**

Duplicate?  FD  
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 2  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy clay loam  
 USCS Texture: ML

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other  
 Grade:  Weak  Moderate  Strong  
Structureless X

**Plasticity**

Non-plastic   
 Slightly Plastic   
 Moderately Plastic   
 Very Plastic

**Other Characteristics**

Roots?  Few  None  Common  Many  
 Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood %: 0 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft multiple Color 2.5Y 3/2  
 0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Odor?  Petrochemical  Slight  Moderate  Strong  
 Sulfur  Other  
 Notes:  Lacustrine?  Sand/gravel bed?   
 Tilt?  USDA Texture: silty clay

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  LOC/JAS

**Sample Remarks**

Internal Remarks: 13:30  
10/31

Client: CEC / Arconic  
 Site Name: Elliott Ditch  
 Project Name: 172 367  
 Task #: 0002  
 Log Date: 10/31/17

Location ID: EO-0072-5003 Interval: 3.50 ft to 3.84 ft

Layer: 4 ft  
 Gap:          ft

3rd Sediment  
 Color:  
2.5Y 6/3

Sediment Color: 2.5Y 2.5/1  
 2nd Sediment Color: 2.5N (black)

**Lab Data**

Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 1  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: sandy clay  
 USCS Texture: CH

**Structure**

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	<input type="checkbox"/> Structureless <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u>        </u>	

**Plasticity**

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input checked="" type="checkbox"/> Very Plastic

**Other Characteristics**

**Roots?**  Few NONE  
 Common  
 Many

**Rocks?**  <15% NONE  
 15-35%  
 35-60%  
 60-90%  
 >90%

**Odor?**  Petrochemical  
 Sulfur  
 Other NONE

**Shells?**  Plant Fragments?

**Wood?**  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood % 0 %

**Sublayers?**  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Color           
 USDA Texture N/A

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  
 LPC/JAS

**Sample Remarks**

13.35  
10/31

**Notes**

Lacustrine?  Sand/gravel bed?



# Sediment Log

Client: CEC / Arconic  
 Site Name: Elliott Ditch  
 Project Name: 172 367  
 Task #: 0007  
 Log Date: 10/31/17

Location ID: EO-0072-SD03 Interval: 3.81 ft to 4.05 ft

Layer: 5 Gap:          ft

Sediment Color: 5Y 4/3 Color           
 2nd Sediment Color: 5Y 2.5/1

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: coarse sandy loam

USCS Texture: MH

**Structure**

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input checked="" type="checkbox"/> Massive	<u>Structureless</u> <input checked="" type="checkbox"/>
<input type="checkbox"/> Other	

**Plasticity**

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input checked="" type="checkbox"/> Moderately Plastic
<input type="checkbox"/> Very Plastic

**Other Characteristics**

Rocks?  Few None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other None

Shells?  Plant Fragments?

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color          USDA Texture         

Notes:  Lacustrine?  Sand/gravel bed?

THH?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  LOC / JAS

**Internal Remarks**

Sample Remarks:         

Internal Remarks: 13:40 10/31

Client: CEC  
 Site Name: Ellisport Ditch  
 Project Name: 172 367  
 Task #: 0002  
 Log Date: 10/31/17

Location ID: CD-00772-SD03 Interval: 4.05 ft to 4.30 ft

Layer: 6 ft  
 Gap:          ft

Sediment Color: G1ey1  
2.5/1 (2.5/EGY)  
 2nd Sediment Color: 101R 516

**Lab Data**

Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 1  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: sandy loam  
 USCS Texture: ML

**Structure**

Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:           
 Grade:  Weak  
 Moderate  
 Strong  
Structureless

**Plasticity**

Non-plastic   
 Slightly Plastic   
 Moderately Plastic   
 Very Plastic

**Other Characteristics**

Rocks?  Few NONE  
 Common  
 Many  
 Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 ≥90%  
 Odor?  Petrochemical  
 Sulfur  
 Other NONE  
 Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal  
 Wood % 0 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft  
 Color           
 USDA Texture N/A

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  
 LDC/JAS

**Internal Remarks**

13:45  
10/21

**Notes**

Tim?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name: Elliot Ditch  
Project Number: 172-367  
Field Location ID: ED-00.82-SD02  
Core Type: Push, Lexan 2" tube, sediment  
Field Remarks:  
Northing: (ft)  
Easting (ft):

Cored By: SMF/LDC/JAS  
Cored Date: 10/31/2017  
Described By: JAS  
Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-0.8	0.7	88%

10:53 Am

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CFC / Arcenic  
 Site Name: Elmth Ditch  
 Project Name: H2 367  
 Task #: 0 002  
 Log Date: 11/2/17

Location ID: ED-00.82-SD02 Interval: 0 ft to 0.39 ft

Layer: 1 Gap:      ft

Color

Sediment Color: 2.5Y 3/2  
 2nd Sediment Color:     

Lab Data

Duplicate?  MS, MD  
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 3  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Texture

USDA Texture: coarse sand

USCS Texture: SW

Structure

Type  
 Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other

Grade  
 Weak  
 Moderate  
 Strong

structureless

Plasticity

Non-plastic   
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

Field Personnel

Logged By: JAS  
 Data Entry By:  Same as above

Other Characteristics

Roots?  Few NONE  
 Common  
 Many

Very Fine  
 Fine  
 Medium  
 Coarse  
 Very Coarse

Wood?  
 Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Rocks?  <15% NONE  
 15-35%  
 35-60%  
 60-80%  
 >80%

Fine Gravel  
 Medium Gravel  
 Coarse Gravel  
 Cobbles

Wood % 0 %

Shells?  Plant Fragments?

Odor?  Petrochemical       
 Sulfur       
 Other N/A

Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Internal Remarks

Sample Remarks: 10/31 1050

Notes

T/H?  Lacustrine?  Sand/gravel bed?

USDA Texture

N/A

Color



Client: CCC / Arcanite  
 Site Name: Elliot's Ditch  
 Project Name: 177 367  
 Task #: 0007  
 Log Date: 11/1/2017

Location ID: ED-00.82-SD02 Interval: 0.39 ft to 0.7 ft

Layer: 2 Gap:      ft

Sediment Color: 2.5Y 3/2 2nd Sediment Color:     

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers:     

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Loamy Sand

USCS Texture: SM

**Structure**

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input checked="" type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u>structureless</u>	

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  N/A  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other N/A

Wood?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood % <5 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color      USDA Texture N/A

**Field Personnel**

Logged By: JAS

Date Entry By:  Same as above      

**Internal Remarks**

10/31 1055

**Notes**

TIN?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name: Elliot Ditch  
 Project Number: 172-367  
 Field Location ID: ED-01.03-SD02  
 Core Type: Sediment- Peat Borer/Hammer  
 Field Remarks: sediment  
 Northing: (ft)  
 Easting (ft):

Cored By: SMF/LDC/JAS  
 Cored Date: 10/30/2017 19 05-17:30  
 Described By: JAS  
 Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
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Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
st 0-1.65	1.26	76%
nd 1.65-2.25	0.6	100%
0-2.25	1.86	83% overall

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



# Sediment Log

Version 1.2, 11/20/16

Client: CEC / Arcconic  
 Site Name: ELIOTT DITCH  
 Project Name: 172 367  
 Task #: 0007  
 Log Date: 11/2/17

Location ID: ED-01.03-SD02 Interval: 0 ft to 0.98 ft

Layer: 1 Gap: 0.39 ft

Color

Sediment Color: 5Y 3/2  
 2nd Sediment Color: [ ]

**Lab Data**

Duplicate?  FD  
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 2  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: loamy coarse sand  
 USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: [ ]  
 Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many  
 Rocks?  <15%  15-35%  35-60%  60-80%  >90%  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood %: <15 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color: [ ]  
 USDA Texture: N/A

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  VOC

**Notes**

Tilt?  Lacustrine?  Sand/gravel bed?   
 Internal Remarks: 10/30 1705



# Soil Log

Version 1.2, 1/20/16

Sediment

Client: CEC / Avconic  
 Site Name: Elliott Ditch  
 Project Name: 172 367  
 Task #: 0002  
 Log Date: 11/2/17

Location ID: EP-01.03-SD03  
 Interval: 0.98 ft to 1.65 ft

Layer Horizon: 2  
 Gap: 0 ft

Soil Color: 5Y 2.5/1  
 2nd Soil Color:

**Lab Data**

Duplicate?  FD  
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 2  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: sandy clay loam  
 USCS Texture: MLT

**Structure**

Type: Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other: \_\_\_\_\_

Grade: Weak  
 Moderate  
 Strong

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**

Roots?  Few None  
 Common  
 Many

Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%

Odor?  Petrochemical  
 Sulfur  
 Other None

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Color: \_\_\_\_\_  
 USDA Texture: N/A

**Field Personnel**

Logged By: JAS  
 Data Entry By: Same as above  
 LOC

**Sample Remarks**

Internal Remarks: 10/30 1710

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Client: CFC / Arconic  
 Site Name: Alliant Ditch  
 Project Name: 72 367  
 Task #: 0002  
 Log Date: 11/2/17

Location ID: ED-0103-SD02 Interval: 1.65 ft to 1.87 ft

Layer Horizon: 3 Gap: 0 ft

Soil Color: 2.5/N (black) 2nd Soil Color:         

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Sandy clay loam

USCS Texture: WH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:         

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NONE

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:          USDA Texture:         

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  LDC

**Sample Remarks**

**Internal Remarks**

K130 1730

**Notes**

Lacustrine?  Sand/gravel bed?

N/A

Client: Cec Arconic  
 Site Name: Elliptic Ditch  
 Project Name: # 177 367  
 Task #: 0002  
 Log Date: 11/2/17

Location ID: ED-01.03-SD02 Interval: 1.87 ft to 2.25 ft

Layer: L4 Horizon: 0 ft Gap: 0 ft

Soil Color: 2.5/1 (2.5/10y) 2nd Soil Color:                       
 Color:                     

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy clay

USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  None  Common  Many

Rocks?  <15%  None  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Slight  Sulfur  Moderate  Other  None  Strong

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:                      USDA Texture: N/A

Tim?  Lacustrine?  Sand/gravel bed?

Notes:                     

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  LDC

**Sample Remarks**

Internal Remarks: 10/30 1735

# Sediment Data Sheet

Project Name: Elliot Ditch  
Project Number: 172-367  
Field Location ID: ED-01.14-SD02  
Core Type: Russian peat borer, push  
Field Remarks: poling depth 1.56ft  
Northing: (ft)  
Easting (ft):

Cored By: LDC/JMS  
Cored Date: 11/1/2017  
Described By: JAS  
Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
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Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
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0 - 1.05'	0.841	76%
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Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



# Sediment Log

Version 1.2, 11/20/18

Client: cec / Arconic  
 Site Name: Ellisott Ditch  
 Project Name: 172 367  
 Task #: 0002  
 Log Date: 11/21/17

Location ID: ED-0114-SD02 Interval: 0 ft to 1.05 ft

Layer: 1 Gap: 0.21 ft

Sediment Color: 2.5Y 3/2 Color: [ ]  
 2nd Sediment Color: [ ]

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: loamy coarse sand

USCS Texture: SW

**Structure**

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u>[ ]</u>	

**Plasticity**

<input checked="" type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input type="checkbox"/> Very Plastic

**Other Characteristics**

Roots?  Few  None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: [ ] USDA Texture: N/A

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  LDC

**Internal Remarks**

Sample Remarks: 12017

Notes: 11/6 0924

TH?  Lacustrine?  Sand/gravel bed?



# Sediment Data Sheet

substitute point for ED-01.24-SD02

Project Name: Elliot Ditch  
Project Number: 17a-367  
Field Location ID: ED-01.22-SD02 + ms  
Core Type: Lexan, 2"  $\phi$ , push  
Field Remarks: piling depth 0.7ft  
Northing: (R)  
Easting (ft):

Cored By: LDC/JAS  
Cored Date: 11/11/2017 10:50  
Described By: JAS  
Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-0.68	0.33	49%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



# Sediment Log

Version 1.2, 1/20/16

Client: CEC/Arconic Location ID: ED-01.22-SD02 Interval: 0 ft to 0.17 ft

Site Name: Elliott Ditch Layer: 1 Sediment Color: 10YR 3/2

Project Name: 172-367 Gap: 2nd Sediment Color:

Task #: 0002 Log Date: 11/2/2017

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Fine sandy loam

USCS Texture: SW

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: structureless

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0%

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:  USDA Texture: N/A

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above

**Sample Remarks**

Internal Remarks: 11/1 10:50

This is a replacement point for ED-01.24-SD02. Mile marker distance is approximate. Check GPS for coordinates.

**Notes**

THP?  Lacustrine?  Sand/gravel bed?

Client: CEC / Arroyo  
 Site Name: Elliott Ditch  
 Project Name: FZ 367  
 Task #: 0002  
 Log Date: 11/2/17

Location ID: ED-01.22-SD02 Interval: 0.17 ft to 0.29 ft

Layer: 2 ft  
 Gap:          ft

Sediment Color: 5Y 5/4 Color  
 2nd Sediment Color:         

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy clay

USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

structureless

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other N/A

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color          USDA Texture N/A

**Field Personnel**

Logged By: JFS

Date Entry By:  Same as above

**Internal Remarks**

11/1 10:55

**Notes**

Lacustrine?  Sand/gravel bed?

TH?

# Sediment Data Sheet

Replacement for ED-01.39-

Project Name: Elliott Ditch  
Project Number: 172367  
Field Location ID: ED-01.37-SD03  
Core Type: Russian peat borer, push  
Field Remarks: piling depth 0.9ft  
Northing: (ft)  
Easting: (ft)

Cored By: LDC/BAK  
Cored Date: 11/2/17  
Described By: JAS  
Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
--------------	-------	----------	----------------------	----------------	-------------------------

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

0-0.9'	0.86	96%
--------	------	-----

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEC / Arconic  
 Site Name: Clayton Dick  
 Project Name: 172 367  
 Task #: 0007  
 Log Date: 11/2/17

Location ID: ED-0137-SD03 Interval: 0 ft to 0.9 ft

Layer: 1 Gap: 0.04 ft

Sediment Color: 10YR 2/2 2nd Sediment Color: [ ]

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: Loamy coarse sand

USCS Texture: SW

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: structureless

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic   
 Slightly Plastic   
 Moderately Plastic   
 Very Plastic

**Other Characteristics**

Roots?  Few  None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other: None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 10YR 2/2 USDA Texture: Loamy fine sand

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above

**Internal Remarks**

Sample Remarks: Replacement for ED-0139-SD03  
0.86/0.90'

Internal Remarks: 11/2/2017  
0950

11.07

# Sediment Data Sheet

Project Name: Elliot Ditch  
Project Number: 172-367  
Field Location ID: ED-01.49-SD03  
Core Type: Russian Peat Borer/Hammer  
Field Remarks: sediment  
Northing (ft):  
Easting (ft):

Cored By: SMF/LDC/JAS  
Cored Date: 10/31/2017  
Described By: JAS  
Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-1.1	1.05	95%	10:23 AM
Poled to 1.3'; could not drive deeper than 1.1'			

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



## Sediment Data Sheet

Project Name: *Elliott Ditch*  
 Project Number: *172-367*  
 Field Location ID: *ED-00.54-SD03*  
 Core Type: *Sediment Pent - Borer*  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: *BAK/DMM*  
 Cored Date: *1/30/18*  
 Described By: *MWB*  
 Described Date: *1/31/18*

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<del>1.0'</del> <i>1.0'</i>	<i>0.91'</i>	

*Picture 3*  
*Time: 07:50 - 07:57*

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

**Figure 2.** Sample hard-copy print-out from electronic data logging system. Hard copies will be archived as a backup to the electronic system



Page 1 of 2

**Sediment Log** Version 1.2, 1/20/16

Location ID: ED-00.54-SD03 Interval: 0 ft to 0.45 ft

Client: CEC/Arcadis Site Name: Elliott Ditch Project Name: 172-367 Task #: 0006 Log Date: 1/31/18

Layer: 1 of 2 Gap: 0 ft

Sediment Color: 10YR 2/1 2nd Sediment Color: 10YR 2/2

Texture: coarse sand Structure: Structureless

USDA Texture: SP USCS Texture: SP

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water

# of Containers: 1 jar Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: MWS Data Entry By:  Same as above

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Other Characteristics: Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 5 % Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Notes:  Till?  Lacustrine?  Sand/gravel bed?

Internal Remarks: 1/30/18  
07:56-07:57

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 2 of 2

**Sediment Log**  
Version 1.2, 1/20/16

Client: CEC/Arconic  
 Site Name: Elliott Ditch  
 Project Name: 172-367  
 Task #: 0006  
 Log Date: 1/31/18

Location ID: ED-00-54-SD03  
 Interval: 0.45 ft to 0.91 ft  
 Layer: 2 of 2  
 Gap: 0 ft

**Lab Data**  
 Duplicate?   
 Grab?   
 Composter?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 1  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**  
 USDA Texture: loamy sand  
 USCS Texture: SM

**Color**  
 Sediment Color: 2.5Y 3/1  
 2nd Sediment Color: 5Y 2.5/1

**Structure**  
 Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:  
 Grade:  Weak  
 Moderate  
 Strong  
Structureless

**Other Characteristics**  
 Rocks?  Few  
 Common  
 Many  
 Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%  
 Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal  
 Wood % 0 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft  
 Color:   
 USDA Texture:   
 Other Characteristics:  Very Fine  
 Fine  
 Medium  
 Coarse  
 Very Coarse  
 Fine Gravel  
 Medium Gravel  
 Coarse Gravel  
 Cobbles  
 Odor?  Petrochemical  
 Sulfur  
 Other Hydro  
 Slight  
 Moderate  
 Strong  
 Notes:  Tail?  Lacustrine?  Sand/gravel bed?

**Field Personnel**  
 Logged By: MPS  
 Data Entry By:  Same as above

**Internal Remarks**  
1/30/18  
07:50-07:57

**Sample Remarks**

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

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**APPENDIX IV**  
**SOIL FIELD DATA SHEETS**

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# Sediment Data Sheet

Soil

Project Name:

Project Number:

Field Location ID: GD-06.08-SLG1

Core Type:

Field Remarks:

Northing: (ft)

Easting (ft):

Cored By: BAK M WB

Cored Date: 10/30 11:07 - 11:34

Described By: JAS

Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
--------------	-------	----------	----------------------	----------------	-------------------------

1.5-2.0

18

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

2.0-1.5

0.4

1.5-1.0

0.34

0.5-1.0

0.5

0.0-0.5

0.5

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_



# Soil Log

Client: CEC / Arconic  
 Site Name: Elliott Ditch  
 Project Name: 177 367  
 Task #: 0007  
 Log Date: 11/2/17

Location ID: ED-00.08-56.01 Interval: 0 ft to 0.5 ft

Horizon: 1A Gap: 0 ft

Soil Color: 6YR 2.5/1 2nd Soil Color:           
 Color

**Lab Data**

Duplicate?  MS/MS/P  
 Grab?   
 Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 3

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: 10AM  
 USCS Texture: MH

**Structure**

Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:         

Grade:  Weak  
 Moderate  
 Strong

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**

Roots?  Few  
 Common  
 Many

Rocks?  <15% NONE  
 15-35%  
 35-60%  
 60-90%  
 >90%

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Color           
 USDA Texture         

Odor?  Petrochemical  
 Sulfur  
 Other NONE

Slight   
 Moderate   
 Strong

**Notes**

T/H?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  
 LSC

**Sample Remarks**

10/30 1107

# 50.1 Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED-00.08-SLO4  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: BAK MWB  
 Cored Date: 10/30 13:18-13:44  
 Described By: JAS  
 Described Date: 11/2

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-0.5	0.46	
0.5-1.0	0.36	
1.0-1.5	0.35	
1.5-2.0	0.5	

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CFL / Arcen  
 Site Name: ~~ED-00-08-SLO4~~ Elliot Ditch  
 Project Name: ED-00-08-SLO4  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-00-08-SLO4 Interval: 0 ft to 0.67 ft  
 Horizon: 0 Gap: 0.18 ft

Soil Color: 7.5 YR 3/1 Color  
 2nd Soil Color:                     

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: silt loam

USCS Texture: MH

**Structure**

Granular	<input type="checkbox"/>
Subangular Blocky	<input type="checkbox"/>
Angular Blocky	<input checked="" type="checkbox"/>
Single Grain	<input type="checkbox"/>
Massive	<input type="checkbox"/>
Other	<input type="checkbox"/>

Grade: Weak  Moderate  Strong

**Plasticity**

Non-plastic	<input type="checkbox"/>
Slightly Plastic	<input type="checkbox"/>
Moderately Plastic	<input type="checkbox"/>
Very Plastic	<input checked="" type="checkbox"/>

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %  %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color  USDA Texture

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK / JAS / LDC

**Internal Remarks**

10/30 1318

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Client: CEC / Arroyo  
 Site Name: Elleot Ditch  
 Project Name: 122-367  
 Task #: 0000  
 Log Date: 1/2/2017

Location ID: ED-00.08-SLO4 Interval: 0.67 ft to 0.86 ft

Horizon: 1A Gap: 0 ft

Soil Color: 2.5 Y 5/3 2nd Soil Color: 7.5YR 5/8 3rd Soil Color: 2.5/N (block)  
 Color: MOISTLES

Texture: sandy clay  
 USDA Texture: CH  
 USCS Texture: CH

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input checked="" type="checkbox"/> Moderate
<input checked="" type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other:	

Lab Data

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Plasticity

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input checked="" type="checkbox"/> Very Plastic

Other Characteristics

Roots?  Few  Common  Many

Rocks?  <15%  None  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NONE

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:  USDA Texture:

Notes:  Till?  Lacustrine?  Sand/gravel bed?

Field Personnel

Logged By: JAS  
 Data Entry By:  Same as above  BLK

Sample Remarks: 10/30 1327

Internal Remarks: 10/30 1327



Client: CEC / Arcenic  
 Site Name: Ellisville Ditch  
 Project Name: 172-367  
 Task #: 0502  
 Log Date: 11/2/17

Location ID: ED-00.082-SLO4 Interval: 0.86 ft to 2.0 ft

Horizon: 2A Gap: 6.15 ft

Soil Color: 5YR 2.5/1 2nd Soil Color:             
 Color

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 2

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: sandy loam  
 USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic   
 Slightly Plastic   
 Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:           

Notes:           

Tim?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  LDC

**Sample Remarks**

0.86-1.36 bag extra soil if needed for FD

**Internal Remarks**

10130  
0.86-1.86 13:39  
1.5-2.0 13:44

# Sediment Data Sheet

Soil

Project Name:  
 Project Number:  
 Field Location ID: ED-00-008-SLO3  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: BAK  
 Cored Date: 10/30/2017  
 Described By: [Signature]  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					12:20
0.5-1.0					12:33
1.0-1.5					12:45
1.5-2					12:53

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
S [scribble]	.45	90%
S [scribble]	.34	68%
S [scribble]	.48	96%
S [scribble]	.32	64%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



Client: CEC / Arcane  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-00.08-SLO3 Interval: 0.5 ft to 0.97 ft

Horizon: 1A Gap: 0.16 ft

Soil Color: 10YR 5/6 2nd Soil Color:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: loamy sand

USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NO

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 6 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color            USDA Texture           

**Field Personnel**

Logged By: TAS

Data Entry By:  Same as above  BAK WOC

**Notes**

Internal Remarks: 10/30 12:33

Sample Remarks:           

Tim?  Lacustrine?  Sand/gravel bed?



# Soil Log

Client: CEC / Arroyo  
 Site Name: Elliot Ditch  
 Project Name: 172 367  
 Task #: 2  
 Log Date: 11/2/17

Location ID: ED-00.08-203 Interval: 0.97 ft to 2.0 ft

Horizon: 2A Gap: 0.20 ft

Soil Color: 5YR 2.5/1 2nd Soil Color:             
 Color

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: very fine sandy loam

USCS Texture: ML

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other: None

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Color            USDA Texture           

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  LR

**Internal Remarks**

10/30  
0.97 - 1.17 @ 12:45  
1.5 - 2.0 @ 12:53

**Notes**

TM?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED-00.25-5602  
 Core Type:  
 Field Remarks:  
 Northing: (R)  
 Easting (ft):

Cored By: BAK  
 Cored Date: 10/30/2017  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					16:01
0.5-1	-			hole in center of core in top 0.45' - incr in diameter w/ depth they terminate 5' - not observed in 1 <sup>st</sup> core	16:09

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.5	100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEC / Arconic  
 Site Name: Eliot Ditch  
 Project Name: 173-367  
 Task #: 0002  
 Log Date: 11/3/2017

Location ID: ED-00.25-SLO2 Interval: 0 ft to 0.5 ft

Horizon: 0 Gap: 0 ft

Soil Color: 2.5YR 2.5/1 2nd Soil Color:           

**Lab Data**

Duplicate?  FD  
 Grab?  LD  
 Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other None

Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 4 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:           

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK ucc

**Sample Remarks**

**Internal Remarks**

10/30 16:01

**Notes**

TM?  Lacustrine?  Sand/gravel bed?

Location ID: ED-00.25-SLO2 Interval: 0.5 ft to 0.62 ft

Client: CEC/Arcenic  
Site Name: Elliot Ditch  
Project Name: 172-367  
Task #: 0002  
Log Date: 1/2/2017

Horizon: 1A Gap: 0 ft

Soil Color: 10YR 5/6 2nd Soil Color: 10YR 2/1

Lab Data  
Duplicate?   
Grab?   
Composite?   
Matrix:  Sediment  Soil  Air  Water  
# of Containers: 1  
Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Structure  
Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:  
Grade:  Weak  Moderate  Strong

Texture  
USDA Texture: loam  
USCS Texture: ML

Plasticity  
 Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Other Characteristics  
Rocks?  Few  Common  Many  
Rocks?  <15%  15-35%  35-60%  60-90%  >90%  
Odor?  Petrochemical  Slight  Moderate  Strong  Sulfur  Other: NOVA  
Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse  
Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
Wood %  %  
Shells?  Plant Fragments?   
Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
Color:  USDA Texture:

Field Personnel  
Logged By: JAS  
Data Entry By: Same as above  
ISAK WCC

Sample Remarks: note thru center of core missing root?  
Internal Remarks: 10/30 16:09

Notes  
TIM?  Lacustrine?  Sand/gravel bed?



Client: CEL/Arroyo  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 002  
 Log Date: 11/2/2017

Location ID: ED-0025-SL02 Interval: 0.62 ft to 1.0 ft

Horizon: 2A Gap: 0 ft

Soil Color: 7.5YR3/2 2nd Soil Color:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: Sandy loam

USCS Texture: MH

**Type**

Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:           

**Structure**

Weak   
 Moderate  
 Strong

**Color**

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**

**Roots?**  Few  Common  Many

**Rocks?**  <15%  15-35%  35-60%  60-90%  >90%

**Wood?**  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 15 %

**Shells?**  Plant Fragments?

**Sublayers?**  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

**Color**           

**USDA Texture**           

**Notes**

TM?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK LOC

**Sample Remarks**

hole through center

**Internal Remarks**

10/30/17 16:10

# Sediment Data Sheet

Soil

Project Name:

Project Number:

Field Location ID: ED - 00 25 - S104

Core Type:

Field Remarks:

Northing: (ft)

Easting (ft):

Cored By: BAK

Cored Date: 10/30/2017

Described By:

Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0.-0.5					14:54
0.5-1.0					15:01
1.0-1.5					15:20
1.5-2					15:27

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.34	68%
0.5	0.3	60%
0.5	0.5	100%

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_



# Soil Log

Client: CEL / Arcville  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-00.25-SLO4 Interval: 0 ft to 2.0 ft  
 Horizon: 0A Gap: 0.36 ft  
 Color: 7.5YR 2.5/1

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 4

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Soil Color: 7.5YR 2.5/1 2nd Soil Color:           

**Texture**

USDA Texture: Sandy loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other: N/A

Shells?  Plant Fragments?

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %           %

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 10YR 5/3

USDA Texture: Sandy clay loam

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  JAR JOC

**Sample Remarks**

**Internal Remarks**

10/30 @ 1454  
0-0.5 @ 1501  
0.5-1.0 @ 1526  
1.0-1.5 @ 1527  
1.5-2.0 @ 1527

**Notes**

Tilt?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: **FD-06.25-SLO3**  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: **BAK**  
 Cored Date: **10/30/2017**  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<b>0-0.5</b>					<b>16-30</b>
<b>0.5-1.0</b>					<b>16-51</b>
<del>1.0-1.5</del>					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<b>0.5</b>	<b>.46</b>	<b>92%</b>
<b>0.5</b>	<b>.25</b>	<b>50%</b>
	<b>.71</b>	
	<b>.29</b>	

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: Arroyo / CEL  
 Site Name: El Estero D. Tech  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-00.25-SL03 Interval: 0 ft to 1.0 ft  
 Horizon: A Gap: 0.29 ft  
 Color

Soil Color: 5YR 2.5/1 2nd Soil Color:     

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:     

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few 0.3-1.0  Common 0.0-0.3  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color      USDA Texture     

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK LDC

**Sample Remarks**

10/30/17 0-0.5 1630 0.5-1.0 1651

**Internal Remarks**

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: **ED-00.39-5601**  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: **BAK**  
 Cored Date: **10/31/2017**  
 Described By:  
 Described Date: **11/2**

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					8:11
0.5-1.0					8:17

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.2	40%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



Client: CEL/Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 1/2/2012

Location ID: ED-00.39-SLO1 Interval: 0 ft to 1.0 ft

Horizon: 0 Gap: 0.3 ft

Soil Color: 7.5YR 3/2 2nd Soil Color: 10R 4/6  
 (mottles found from 0.25-0.5' from non nodules)

Lab Data

Duplicate?  MS(MSD) (0-0.5)  
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 1 loc  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Texture

USDA Texture: loam  
 USCS Texture: ML

Structure

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_  
 Grade:  Weak  Moderate  Strong

Plasticity

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Other Characteristics

Roots?  Few  Common  Many  
in top 0-25"  
 Rocks?  <15%  15-35%  35-60%  60-90%  >90%  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood % \_\_\_\_\_  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color \_\_\_\_\_  
 USDA Texture \_\_\_\_\_  
 Notes:  Lactustrine?  Sand/gravel bed?   
 T11?

Field Personnel

Logged By: TAS  
 Data Entry By:  Same as above  BAK loc

Internal Remarks

10/31 8:11 MS(MSD)  
0-0.5 8:17  
0.5-1.0 8:17

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED - 00.39 - SL03  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: RAK  
 Cored Date: 10/31/2017  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					8:31
0.5-1.0					8:37
1.0-1.5					8:44

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.41	82%
0.5	0.5	100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



Client: CEC/Arcenic  
 Site Name: Elliott Ditch  
 Project Name: 17P-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-0039 - SLO3 Interval: 0 ft to 0.69 ft

Horizon: 0 Gap: 0.09 ft

Soil Color: 10 YR 2/1 2nd Soil Color:                       
 Color

**Lab Data**

Duplicate?  FD  
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 22  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: loam  
 USCS Texture: MH

**Structure**

Type	Grade
<input checked="" type="checkbox"/> Granular	Weak <input type="checkbox"/>
<input type="checkbox"/> Subangular Blocky	Moderate <input checked="" type="checkbox"/>
<input type="checkbox"/> Angular Blocky	Strong <input type="checkbox"/>
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u>                    </u>	

**Plasticity**

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input checked="" type="checkbox"/> Very Plastic

**Other Characteristics**

Roots?	<input type="checkbox"/> Few	<input checked="" type="checkbox"/> Very Fine	<input checked="" type="checkbox"/> Wood
	<input type="checkbox"/> Common	<input type="checkbox"/> Fine	<input type="checkbox"/> Black Wood
	<input type="checkbox"/> Many	<input type="checkbox"/> Medium	<input type="checkbox"/> Burned Wood
		<input type="checkbox"/> Coarse	<input type="checkbox"/> Sawdust
		<input type="checkbox"/> Vary Coarse	<input type="checkbox"/> Wood Chips
			<input type="checkbox"/> Wood Pulp
			<input type="checkbox"/> Charcoal

Wood % 10 %

Shells?  Plant Fragments?

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Color: 2.5 YR 5/8  
 USDA Texture:                     

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Notes: Redox concretions

TM?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  BAK LPC

**Internal Remarks**

Sample Remarks: 10/31 0831

Location ID: ED-00.39-SLO3 Interval: 0.69 ft to 0.98 ft

Client: CEC/Aronic  
 Site Name: Elliot Ditch  
 Project Name: 170-367  
 Task #: 0007  
 Log Date: 11/2/2017

Horizon: 1A Gap: 0 ft

Soil Color: 7.5YR 4/3 2nd Soil Color:     

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 2

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: Sandy loam

USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:     

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic   
 Slightly Plastic   
 Moderately Plastic   
 Very Plastic

**Other Characteristics**

**Roots?**  Few  Common (1-4)  Many

**Rocks?**  <15%  15-35%  35-60%  60-90%  >90%

**Odor?**  Petrochemical  Sulfur  Other None

**Wood?**  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

**Sublayers?**  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:     

USDA Texture:     

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK DC

**Internal Remarks**

10/31 0837

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Client: CEC / Arcadia  
 Site Name: Elliot Ditch  
 Project Name: 172-767  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-10.34-SL03 Interval: 0.98 ft to 1.17 ft

Horizon: 2A Gap: 0 ft

Soil Color: 7.5YR 2.5/1 2nd Soil Color:     

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: 10am

JSCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:     

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:      USDA Texture:     

**Notes**

TH?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK/DC

**Sample Remarks**

10/31 6840

**Internal Remarks**

Client: CEC / Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-00.39-SLO3 Interval: 1.17 ft to 1.5 ft  
 Horizon: B Gap: 0 ft

Soil Color: 10YR 4/4 2nd Soil Color: 10YR 3/1  
 Color

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty loam

USCS Texture: ML

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:     

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NONE

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color      USDA Texture     

**Field Personnel**

Logged By: TAS

Data Entry By:  Same as above  BAK 100

**Sample Remarks**

10/31 0844

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED-00.39-SLO4  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Corer By: BAK  
 Cored Date: 10/31/2017  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5			0.25	50 %	9:02
0.5-1.0			0.5	100 %	9:06
1.0-1.5			0.2	40 %	9:13

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL / Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-0039-SC04 Interval: 0 ft to 1.5 ft

Horizon: 0 Gap:      ft

Soil Color: 5YR 2.5/1 2nd Soil Color:     

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 3.2 (LDC)

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Texture**

USDA Texture: 10cm

USCS Texture: MH

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15% None  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NONE

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:      USDA Texture:     

**Field Personnel**

Logged By: SAS

Data Entry By:  Same as above  BAK LDC

**Sample Remarks**

inuff. recovery 1-1.5' to sample

**Internal Remarks**

10/31 0.0-0.5 @ 0902 0.5-1.0 @ 0906

**Notes**

TM?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: **0E1D-00.47-SL01**  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: **BAK**  
 Cored Date: **10/31/2017**  
 Described By:  
 Described Date: **11/2**

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<b>0-0.5</b>					<b>10:04</b>
<b>0.5-1</b>					<b>10:11</b>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<b>0.5</b>	<b>0.5</b>	<b>100%</b>
<b>0.5</b>	<b>0.19</b>	<b>38%</b>

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: C&C/Aconic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2012

Location ID: ED-00.47-SLO1 Interval: 0 ft to 1.0 ft

Horizon: 0 ft  
 Gap:      ft

Soil Color: 5YR 2.5/2 2nd Soil Color:       
 Color

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy loam

USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:     

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Slight  Sulfur  Moderate  Other  Strong

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % <5 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color      USDA Texture     

Notes:  Lacustrine?  Sand/gravel bed?   Till?

**Field Personnel**

Logged By: SAS

Data Entry By:  Same as above  BAK LC

**Sample Remarks**

insuff recovery / to sample 05-10

**Internal Remarks**

10/31 1004



# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED-00.47-SLO3  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: BAK  
 Cored Date: 10/31/2017  
 Described By: 11/2/17  
 Described Date: JAS

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					10:23
0.5-1.0			total depth 0.77 (LDC)		10:31

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	.34	68%
0.5	.43	86%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL / ~~Acorn~~ Acorn  
 Site Name: Elliot Dike  
 Project Name: 172-83  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: E1D-00.47-SLO3 Interval: 0 ft to 0.77 ft

Horizon: A Gap: 0.23 ft

Soil Color: 10YR 3/1 2nd Soil Color: 10YR 5/3  
*Found around some roots*

**Lab Data**

Duplicate?  FD  
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 2  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy clay loam  
 USCS Texture: SC

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_  
 Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many  
 Rocks?  <15%  15-35%  35-60%  60-90%  >90%  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood %: \_\_\_\_\_ %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color: \_\_\_\_\_  
 USDA Texture: \_\_\_\_\_

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  BAK / JAS

**Notes**

Internal Remarks: \_\_\_\_\_  
 Sample Remarks: 10/31 2023

Tim?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
 Project Number: ED-00.47-SLO4  
 Field Location ID:  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: BAK  
 Cored Date: 10/31/2017  
 Described By:  
 Described Date: 11/2

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<u>0-0.5</u>					<u>10:46</u>
<u>0.5-1.0</u>	<u>0.80</u>		<u>WDC</u>		<u>10:53</u>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<u>0.5</u>	<u>0.39</u>	<u>78%</u>
<u>0.5</u>	<u>0.30</u>	<u>60% 100%</u>

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CGL/Arconic  
 Site Name: Elliot Ditch  
 Project Name: 17A-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-00.47-SLO4 Interval: 0 ft to 0.80 ft

Horizon: 0 Gap: 0.11 ft

Soil Color: 5YR 2.5/1 Color:                       
 2nd Soil Color:                     

**Lab Data**

Duplicate?  Grab?  Composite?

Metric:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: loam

USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:                     

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Shells?  Plant Fragments?

Odor?  Petrochemical  Sulfur  Other NONE

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:                      USDA Texture:                     

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BSK LOC

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Sample Remarks:                     

Internal Remarks: 10/31 1046

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED - 00.51 - SLO3  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: BAK  
 Cored Date: 10/31/2017  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					12:05
0.5-1.0					12:12

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.47	94%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL/Arconic  
 Site Name: 172-367 → Elliot Ditch  
 Project Name:  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: FD-00.51 - SLO3 Interval: 0 ft to 1.0 ft

Horizon: A Gap: 0.03 ft

Soil Color: 5Y 2.5/1 2nd Soil Color: 10YR 6/14

Lab Data

Duplicate?  FD-0-0.5  
 Grab?  0.5-1.0  
 Composite?  FD-0-0.5

Matrix:  Sediment  Soil  Air  Water

# of Containers: 13

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Texture

USDA Texture: Silty loam

USCS Texture: MH

Structure

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

Plasticity

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Other Characteristics

Rocks?  Few  None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %  0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 2.5YR 2.5/1

USDA Texture: loam and decaying leaves

Field Personnel

Logged By: SAS

Data Entry By:  Same as above  BAK/LOC

Internal Remarks

10/31  
 0.0-0.5 @ 12.05  
 0.5-1.0 @ 12.12

Notes

Tim?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: *ED-00.51-SLO1*  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: *BAK*  
 Cored Date: *6/31/2017*  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<i>0-0.5</i>					<i>11:35</i>
<i>0.5-1.0</i>					<i>11:41</i>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<i>0.5</i>	<i>0.39</i>	<i>78%</i>
<i>0.5</i>	<i>0.5</i>	<i>100%</i>

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: C&L/Accenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0602  
 Log Date: 11/2/2017

Location ID: ED-00.S1-SLA Interval: 0 ft to 1.0 ft

Horizon: A Gap:      ft

Soil Color: 5YR 2.5/1 2nd Soil Color: 10YR 6/6

Lab Data

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 72 LOC

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

Texture

USDA Texture: very fine sandy loam

USCS Texture: MH

Structure

Type

<input type="checkbox"/>	Granular
<input checked="" type="checkbox"/>	Subangular Blocky
<input type="checkbox"/>	Angular Blocky
<input type="checkbox"/>	Single Grain
<input type="checkbox"/>	Massive
<input type="checkbox"/>	Other

Grade

<input checked="" type="checkbox"/>	Weak
<input type="checkbox"/>	Moderate
<input type="checkbox"/>	Strong

Plasticity

<input type="checkbox"/>	Non-plastic
<input type="checkbox"/>	Slightly Plastic
<input type="checkbox"/>	Moderately Plastic
<input checked="" type="checkbox"/>	Very Plastic

Other Characteristics

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other NOV

Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % <5 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color      USDA Texture     

Field Personnel

Logged By: JAS

Data Entry By:  Same as above  JAK/LDC

Sample Remarks

Bottom 0.5-1.0' wet

Internal Remarks

10/31  
0.5-0.5 @ 1135  
0.5-1.0 @ 1141

Notes

TIN?  Lacustrine?  Sand/gravel bed?



# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED - 00.60 - SLO1  
 Core Type:  
 Field Remarks:  
 Northing: (N)  
 Easting (ft):

Corer By: BAK  
 Cored Date: 10/31  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					13:23
0.5-1.0					13:29

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.28	56%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CFC / Arconic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/7/2017

Location ID: ED-00-60-SLO3 Interval: 0 ft to 0.89 ft

Horizon: 0 Gap: 0.22 ft

Soil Color: 2.5Y 3/2 2nd Soil Color:           

**Lab Data**

Duplicate?  MS (MSD)  
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 43  
 Priority:  Urgent  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: 100m  
 USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 43 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:           

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  BAK VDC

**Sample Remarks**

**Internal Remarks**

10/31 1323

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Client: LEC / Areas  
 Site Name: Elliott Ditch  
 Project Name: 177-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: E1-00.50 - SLOZ Interval: 0.89 ft to 1.0 ft

Horizon: A Gap:      ft

Soil Color: 10YR 5/4 2nd Soil Color:     

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Sandy clay

USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:     

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Color:      USDA Texture:     

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK WCC

**Internal Remarks**

10/31 1329

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: *ED - 00.60 - SLO3*  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: *BAK*  
 Cored Date: *10/31/2017*  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<i>0-0.5</i>					<i>13:41</i>
<i>0.5-1.0</i>					<i>13:49</i>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<i>0.5</i>	<i>0.38</i>	<i>76%</i>
<i>0.5</i>	<i>0.47</i>	<i>94%</i>

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_

Client: CEC / Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-00.60-SLO1 Interval: 0 ft to 0.19 ft

Horizon: 0 Gap: 0 ft

Soil Color: 5YR 3/1 2nd Soil Color:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: silt loam

USCS Texture: ML

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15% None  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other: NONE

Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:           

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK LOC

**Sample Remarks**

10/31 1341

**Internal Remarks**



Client: CEL / Aronic  
 Site Name: Felton Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2016

Location ID: FD-00.60-SLO1 Interval: 0.25 ft to 1.0 ft

Horizon: A Gap: 0.15 ft

Soil Color: 10YR 5/6 2nd Soil Color: 10YR 4/2

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: loamy sand

USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other None

Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color  USDA Texture

**Field Personnel**

Logged By: BTAS

Data Entry By:  Same as above  BAK LOC

**Sample Remarks**

Internal Remarks: 10/31 1349

**Notes**

Tin?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: EP-00.72-SL01  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: BAK  
 Cored Date: 10/31/2017  
 Described By: JAS  
 Described Date: 11/2

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					14:05
0.5- <del>1.0</del>					14:13

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.28	56%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL/Arconic  
 Site Name: Elliot Ditch  
 Project Name: 172-267  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: E1D-0072-SL01 Interval: 0 ft to 1.0 ft

Horizon: 0 Gap: 0.22 ft

Soil Color: 5YR 2.5/1 2nd Soil Color: 2.5/W (black)  
*gradual change*  
*Color grades*

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: clay loam

USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Rocks?  <15% None  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other XXX

Soil Fragments?  Slight  Moderate  Strong

USDA Texture: \_\_\_\_\_

**Field Personnel**

Logged By: SAS

Data Entry By:  Same as above  ISAK LOC

**Sample Remarks**

10/31  
0-0.5 @ 1405  
0.5-1.0 @ 1413

**Notes**

TM?  Lacustrine?  Sand/gravel bed?



# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: *ED-00.72-5602*  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: *Bak*  
 Cored Date: *10/31/2017*  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<i>0-0.5</i>					<i>14:56</i>
<i>0.5-1.0</i>					<i>14:57</i>
<i>1.0-1.5</i>					<i>15:04</i>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<i>0.5</i>	<i>0.5</i>	<i>100%</i>
<i>0.5</i>	<i>0.30</i>	<i>60%</i>
<i>0.5</i>	<i>0.48</i>	<i>96%</i>
	<i>1.28</i>	

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL/ARRCO Location ID: ED-0072-SL02 Interval: 0 ft to 1.5 ft

Site Name: Ellet Ditch Horizon: A Gap: 0.22 ft

Project Name: 172-367 Task #: 0002 Log Date: 11/2/07 11/3/17

Lab Data LOC

Soil Color: 10YR 2/2 2nd Soil Color:     

Color

USDA Texture: Sandy loam

USCS Texture: SM

Structure

Type

Grade

Weak  
 Moderate  
 Strong

Duplicate?

Grab?

Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 3 (LOC)

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

Plasticity

Non-plastic

Slightly Plastic

Moderately Plastic

Very Plastic

Field Personnel

Logged By: SAS

Data Entry By:  Same as above  SAS

Internal Remarks: LOC SAS

Sample Remarks: moist @ bottom (1.25") but not wet

10/31	0. - 0.5	14 50
	0.5 - 1.0	14 51
	1.0 - 1.5	15 04

Other Characteristics

Rocks? None

Roots?  Few  
 Common  
 Many

Odor?  Petrochemical  
 Sulfur  
 Other NONE

Notes

Sublayers?   Plant Fragments?

Wood?  Wood 21.5%  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood % < 5 %

Shells?  Plant Fragments?

Sublayers?   Plant Fragments?

Color

USDA Texture

Temp?

Lacustrine?

Sand/gravel bed?

Few redox concretions at bottom of core

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: *EA-00.72-SL04*  
 Core Type:  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: *BAK*  
 Cored Date: *10/21/2017*  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<i>0-0.5</i>					<i>15.39</i>
<i>0.5-1.0</i>					<i>15.46</i>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<i>0.5</i>	<i>0.50</i>	<i>100%</i>
<i>0.5</i>	<i>0.20</i>	<i>40%</i>

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: LEC / Arconic  
 Site Name: Ellick Ditch  
 Project Name: 172 - 367  
 Task #: 1007  
 Log Date: 11/20/17 LOC

Location ID: ED-00.72-SLO4 Interval: 0 ft to 0.1 ft  
 Horizon: 0 ft Gap: 0 ft

Soil Color: 7.5YR 2.5/1 2nd Soil Color:       
 Color

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy clay loam

USCS Texture: MH

**Structure**

Type	Grade
<input type="checkbox"/> Granular	Weak <input type="checkbox"/>
<input checked="" type="checkbox"/> Subangular Blocky	Moderate <input checked="" type="checkbox"/>
<input type="checkbox"/> Angular Blocky	Strong <input type="checkbox"/>
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u>    </u>	

**Plasticity**

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input checked="" type="checkbox"/> Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15% None  15-35%  35-60%  60-90%  90%

Odor?  Petrochemical  Sulfur  Other None

Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %  % 0

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color  USDA Texture

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK LOC

**Internal Remarks**

Sample Remarks:     

Internal Remarks: 10/31 1539

**Notes**

THH?  Lacustrine?  Sand/gravel bed?

Client: CEL/Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 4/2/2017 11:31:17

Location ID: E15-00.72-SLO4 Interval: 0.11 ft to 0.47 ft

Horizon: 1A Gap: 0 ft

Soil Color: 7.5YR 4/2 2nd Soil Color: 10YR 8/1

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Coarse sandy loam

USCS Texture: SM

**Structure**

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak <input checked="" type="checkbox"/>
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input checked="" type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other:	

**Plasticity**

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input checked="" type="checkbox"/> Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other NOX

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 7.5YR 5/8 USDA Texture: Redox concretions

Notes: found sporadically in

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK LOC

**Sample Remarks**

Internal Remarks: 10/31 1540

Client: CEC/Arconic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/13/17

Location ID: ED-00.72-SLO4 Interval: 0.47 ft to 1.0 ft

Horizon: 2A Gap: 0.3 ft

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Soil Color: G11 (Gley 1) 2nd Soil Color: 5YR 2.5/1

Color: 6/10Y

3rd soil color 10YR 5/2

1 horizon is mottled - all 3 colors approx equal %

**Texture**

USDA Texture: very coarse sandy clay

USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NONE

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 7.5YR 5/8

USDA Texture: Minor color - potential redox iron concentration

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK

**Notes**

Tim?  Lacustrine?  Sand/gravel bed?

Internal Remarks: 10/31 1546

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED-0082-5201  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: BAA  
 Cored Date: 10/31/2017  
 Described By: [Signature]  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
--------------	-------	----------	----------------------	----------------	-------------------------

0-0.5

16.04

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

0.5

0.5

~~0.5~~ 100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEC/Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 4/2/2017 11/3/17

Location ID: ED-00.82-S102 Interval: 0 ft to 0.22 ft

Horizon: 1A Gap: 0 ft

Soil Color: 10YR 3/2 2nd Soil Color:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

**Texture**

USDA Texture: LOAM

USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NOV

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:           

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK / LOC

**Internal Remarks**

Sample Remarks:           

Internal Remarks: 10/31 16:04

**Notes**

T#?  Lacustrine?  Sand/gravel bed?



Client: CEL/Arconic  
 Site Name: Elliott Ditch  
 Project Name: 172-363  
 Task #: 0007  
 Log Date: 11/3/17

Location ID: ED-00082-SL01 Interval: 0.22 ft to 0.5 ft

Horizon: 2A Gap: 0 ft

Soil Color: 10YR 5/4 2nd Soil Color:           
 Color

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)   
 As Able (3)   
 As Needed (4)

**Texture**

USDA Texture: sandy loam

USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:         

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic   
 Slightly Plastic   
 Moderately Plastic   
 Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other None

Very Fine  Fine  Medium  Coarse  Vary Coarse

Fine Gravel  Medium Gravel  Coarse Gravel  Cobbles

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color          USDA Texture         

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: SAS

Data Entry By:  Same as above  BAK LSC

**Sample Remarks**

**Internal Remarks**

10/31 16:05

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: **ED - 00.87 - SLO 3**  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: **BAK**  
 Cored Date: **10/31/2017**  
 Described By:  
 Described Date: **11/3**

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					16011
0.5-1					16015

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.45	90%
0.5	0.43	86%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL / Arwinc  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 4/2/2012 11:31A

Location ID: ED-00.82-SLO3 Interval: 0 ft to 0.5 ft  
 Horizon: 1A Gap: 0.65 ft

Soil Color: 2.5Y 3/3 2nd Soil Color:             
 Color

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: loamy sand

USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35% Over-all  35-60% 0.25-0.5  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other N/A

Shells?  Plant Fragments?

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %  %

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color  USDA Texture

**Notes**

TI?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: SAS

Data Entry By:  Same as above  BAK LDC

**Sample Remarks**

gravel concentrated at bottom all coarser gravel @ bottom of horizon dry

**Internal Remarks**

10/31 1611

Client: CEC / Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 002  
 Log Date: 11/3/17

Location ID: ED-0082-SLO3 Interval: 0.5 ft to 1.0 ft

Horizon: 2A Gap: 0.07 ft

Soil Color: 10YR 3/1 2nd Soil Color:         

Lab Data

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Texture

USDA Texture: loam

USCS Texture: ML

Structure

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

Plasticity

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Other Characteristics

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %   %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color  USDA Texture

Field Personnel

Logged By: JAS

Data Entry By:  Same as above  BAK / LOC / JAS

Sample Remarks: Some moisture (not wet)

Internal Remarks: 10/31 1615

Notes:  TMI?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
Project Number:  
Field Location ID: ED - 00.82 - SLO 4  
Core Type:  
Field Remarks:  
Northing: (ft)  
Easting: (ft)

Cored By: BAK  
Cored Date: 10/31/2017  
Described By: JAS  
Described Date: 11/2

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					16:34

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL / Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: E15-06.82-SLO4 Interval: 0 ft to 0.13 ft

Horizon: 0 ft  
 Gap: 0 ft

Soil Color: 5YR 2.5/2 2nd Soil Color:             
 Color

Lab Data

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

Texture

USDA Texture: 100mm  
 USCS Texture: 1A4

Structure

Type

<input type="checkbox"/>	Granular
<input checked="" type="checkbox"/>	Subangular Blocky
<input type="checkbox"/>	Angular Blocky
<input type="checkbox"/>	Single Grain
<input type="checkbox"/>	Massive
<input type="checkbox"/>	Other: <u>          </u>

Grade

<input type="checkbox"/>	Weak
<input type="checkbox"/>	Moderate
<input checked="" type="checkbox"/>	Strong

Plasticity

<input type="checkbox"/>	Non-plastic
<input type="checkbox"/>	Slightly Plastic
<input type="checkbox"/>	Moderately Plastic
<input checked="" type="checkbox"/>	Very Plastic

Other Characteristics

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color            USDA Texture           

Notes

TIN?  Lacustrine?  Sand/gravel bed?

Field Personnel

Logged By: SAS  
 Data Entry By:  Same as above  BAK VCC

Sample Remarks

Internal Remarks

10/31 HOS  
1634  
(PC)

Client: CE/Agronic Location ID: ED-00.82-404 Interval: 0.13 ft to 0.5 ft

Site Name: Elk Creek Ditch Horizon: A Gap: 0 ft  
 Project Name: 172-367 Soil Color: 10YR 5/4 2nd Soil Color:             
 Task #: 0002 Texture: Very fine sandy loam Structure:            Grade:             
 Log Date: 11/2/2017 USDA Texture: MH USCS Texture:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**

Logged By: SAS  
 Data Entry By:  Same as above  BSAC LOC

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 % Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:           

**Notes**

TIH?  Lacustrine?  Sand/gravel bed?

Sample Remarks:           

Internal Remarks: 10/31 +118  
1635  
(LOC)



# Soil Log

Version 1.2, 1/20/16

Page \_\_\_\_\_ of \_\_\_\_\_

Client: CEC/Arconic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-00.08-SL01 Interval: 0.5 ft to 1.0 ft

Horizon: 2A<sub>2</sub> Gap: 0 ft

Soil Color: 2.5Y 3/2 2nd Soil Color:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Coarse sandy loam

USCS Texture: MH

**Structure**

Type	Grade
<input type="checkbox"/> Granular	Weak <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Subangular Blocky	Moderate <input type="checkbox"/>
<input type="checkbox"/> Angular Blocky	Strong <input type="checkbox"/>
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u>          </u>	

**Plasticity**

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input checked="" type="checkbox"/> Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  ≤15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other

Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 2.5Y 6/6  
2.5Y(N) 6/6  
2.5YR 4/8

USDA Texture:           

Notes: Redox concentration  
Few fine-medium  
→ minor stains

**Field Personnel**

Logged By: SAS

Data Entry By:  Same as above  BAK

**Internal Remarks**

10/30 1116

**Notes**

TM?  Lacustrine?  Sand/gravel bed?



Client: CEC/Arconic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017

Location ID: ED-00.08-SLO1 Interval: 1.0 ft to 1.86 ft

Horizon: 3A Gap: 0.16 ft

Soil Color: 5YR 3/2 2nd Soil Color: 7.5YR 4/3

**Lab Data**

Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Structure**

Type	Grade
<input checked="" type="checkbox"/> Granular	Weak <input type="checkbox"/>
<input type="checkbox"/> Subangular Blocky	Moderate <input type="checkbox"/>
<input type="checkbox"/> Angular Blocky	Strong <input type="checkbox"/>
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other	

**Texture**

USDA Texture: Silty loam

USCS Texture: MH

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**

Roots?	<input type="checkbox"/> Few	<input checked="" type="checkbox"/> Common	<input type="checkbox"/> Many
Rocks?	<input checked="" type="checkbox"/> <15%	<input type="checkbox"/> 15-35%	<input type="checkbox"/> 35-60%
	<input type="checkbox"/> 60-90%	<input type="checkbox"/> >90%	
Odor?	<input type="checkbox"/> Petrochemical	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Other <u>None</u>
Shells?	<input type="checkbox"/> Plant Fragments?		
Wood?	<input type="checkbox"/> Wood	<input type="checkbox"/> Black Wood	<input type="checkbox"/> Burned Wood
	<input type="checkbox"/> Sawdust	<input type="checkbox"/> Wood Chips	<input type="checkbox"/> Wood Pulp
	<input type="checkbox"/> Charcoal		
Wood %	<input type="checkbox"/> %		
Sublayers?	<input checked="" type="checkbox"/> <0.05 ft	<input type="checkbox"/> 0.05-0.1 ft	<input type="checkbox"/> 0.1-0.2 ft
	<input type="checkbox"/> 0.2-0.5 ft	<input type="checkbox"/> >0.5 ft	
Color	<u>2.5YR 4/8</u>		
USDA Texture	<u>3AA - Redox concentration few, fine-medium</u>		

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  LOC

**Internal Remarks**

10130  
1.0-1.86 11:22

**Sample Remarks**

10130

**Notes**

TM?  Lacustrine?  Sand/gravel bed?

Client: CEC / Arconic  
 Site Name: Elliott Ditch  
 Project Name: 177 367  
 Task #: 0002  
 Log Date: 11/2/17

Location ID: GD-00-08-SLO1 Interval: 1.86 ft to 2.0 ft  
 Horizon: 4A Gap: 0.1 ft  
 Color

Soil Color: 2.5Y 2.5/1 2nd Soil Color:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty clay

USCS Texture: CH

**Structure**

Type

<input type="checkbox"/>	Granular
<input type="checkbox"/>	Subangular Blocky
<input type="checkbox"/>	Angular Blocky
<input type="checkbox"/>	Single Grain
<input checked="" type="checkbox"/>	Massive
<input type="checkbox"/>	Other: <u>          </u>

Grade

<input type="checkbox"/>	Weak
<input type="checkbox"/>	Moderate
<input checked="" type="checkbox"/>	Strong

**Plasticity**

<input type="checkbox"/>	Non-plastic
<input type="checkbox"/>	Slightly Plastic
<input type="checkbox"/>	Moderately Plastic
<input checked="" type="checkbox"/>	Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color            USDA Texture           

Notes

Lacustrine?  Sand/gravel bed?

Tilt?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  IOC

**Sample Remarks**

**Internal Remarks**

10/30/17 1134

BAK MWR

# Sediment Data Sheet

Project Name:  
Project Number:  
Field Location ID: ED-01.03-SL01  
Core Type:  
Field Remarks:  
Northing: (ft)  
Easting (ft):

Cored By: BAK  
Cored Date: 11/1/2017  
Described By:  
Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
--------------	-------	----------	----------------------	----------------	-------------------------

0-0.5

9:32

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

0.5

~~0.5~~  
.47

~~100%~~  
94%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL / Arcotic  
 Site Name: Elliott Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/3/17

Location ID: E17-01.03-SL01 Interval: 0 ft to 0.5 ft

Horizon: A Gap: 0.03 ft

Soil Color: 7.5YR 3/2 2nd Soil Color: 10YR 7/6  
 Color: SPOTCHECK

**Lab Data**

Duplicate?  FD  
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 2  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_  
 Grade:  Weak  Moderate  Strong

**Texture**

USDA Texture: Silty loam  
 USCS Texture: MH

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many  
 Rocks?  <15%  15-35%  35-60%  60-90%  >90%  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood %: 0 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color: \_\_\_\_\_  
 USDA Texture: \_\_\_\_\_

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  BAK/LOC

**Notes**

Internal Remarks: \_\_\_\_\_  
 Sample Remarks: 11/1 0932

Till?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED-01.03-SL63  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Corer By: BAK  
 Cored Date: 10/31/2017  
 Described By:  
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					17:05
0.5-1.0					17:13

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.38	76%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL/Arcadis  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017 11:31:17

Location ID: ED-01.03-SL03 Interval: 0 ft to 0.21 ft

Horizon: 0 Gap: 0 ft

Soil Color: 7.5YR 2.5/1 Color           
 2nd Soil Color:         

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Loam

USCS Texture: ML

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:         

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Rocks?  <15% None  15-35%  35-60%  60-90%  ≥90%

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color         

USDA Texture         

Odor?  Petrochemical  Sulfur  Other NONE

Slight  Moderate  Strong

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK

**Sample Remarks**

Internal Remarks

10131 1705

Client: CEC / Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0602  
 Log Date: 11/3/17

Location ID: ED-01.03-SLO3 Interval: 0 ft to 1.0 ft

Horizon: A Gap: 0.12 ft

Soil Color: 2.5Y 5/4 2nd Soil Color: 7.5YR 2.5/1

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NONE

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:  USDA Texture:

**Field Personnel**

Logged By: SAS

Data Entry By:  Same as above  BAK LOC JAS

**Sample Remarks**

10/31 1713

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
Project Number:  
Field Location ID: ED - 01.14 - SLO1  
Core Type:  
Field Remarks:  
Northing: (ft)  
Easting (ft):

Cored By: BAC  
Cored Date: 11/1/17  
Described By: JAS  
Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
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0-0.5  
~~0-0.5~~

10:01

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
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0.5 - 0.5 100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



Client: GEL/ARONIC  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017 11/3/17

Location ID: ED-01.14-SL01 Interval: 0 ft to 0.5 ft

Horizon: A Gap: 0 ft

Soil Color: 10YR 2/2 2nd Soil Color: 10YR 5/6

**Lab Data**

Duplicate?  MS/MSD  
 Grab?  LDC  
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 2 3 LDC  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Sandy loam  
 USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_  
 Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many  
 Rocks?  <15%  15-35%  35-60%  60-90%  >90%  
 Petrochemical Sulfur Other NONE  
 Odor?  Slight  Moderate  Strong  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood % 0 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color: \_\_\_\_\_  
 USDA Texture: N/A

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  BAK/TAS/LDC

**Sample Remarks**

11/1 1001

**Notes**

TIH?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED - 01.14 - 5103  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Corer By: BAK  
 Cored Date: 11/1/17  
 Described By:  
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<u>0-0.5</u>					<u>10:22</u>
<u>0.5-1.0</u>					<u>10:29</u>

Core Interval (ft)	Measured Sediment in Core (ft)		% Recovery
<u>0.5</u>	<u>(0.55)</u>	<u>0.5</u>	<u>100% (110%)</u>
<u>0.5</u>		<u>0.45</u>	<u>90%</u>
<hr/>			
<u>1.0</u>		<u>1.0</u>	<u>100%</u>

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL/Arctic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/27/2013 11/3/17

Location ID: FD-01.14-SL03 FD Interval: 0 ft to 1.0 ft

Horizon: A Gap: 0 ft

Soil Color: 7.5YR 2.5/1 2nd Soil Color:                       
 Color:                     

**Lab Data**

Duplicate?  - FD (0.5-1.0)  
 Grab?  - (0.5-1.0)  
 Composite?  - (0.5-1.0)

Matrix:  Sediment  Soil  Air  Water

# of Containers: 13 LDC

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: 100M  
 USCS Texture: M+1

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:                     

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Petrochemical:  Sulfur  Other: NONE

Odor?  Slight  Moderate  Strong

Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 5YR 5/8 USDA Texture:                     

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  LSAK LDC

**Sample Remarks**

Internal Remarks: 11/1  
0-0.5 1022  
0.5-1.0 1029

**Notes**

Tim?  Lacustrine?  Sand/gravel bed?

Redox concretions

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED-01.24-501  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: BAK MWS  
 Cored Date: 11/11/17  
 Described By:  
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<u>0-0.5</u>					<u>11:26</u>
<u>0.5-1.0</u>					<u>11:36</u>
<u>1.0-1.5</u>					<u>11:44</u>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<u>0.5</u>	<u>0.5</u>	<u>100%</u>
<u>0.5</u>	<u>0.4</u>	<u>80%</u>
<u>0.5</u>	<u>0.39</u>	<u>78%</u>

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEC / Arroyo  
 Site Name: El Estero Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017 11/3/17

Location ID: ED-01.24-SLO1 Interval: 0 ft to 0.87 ft

Horizon: A Gap: 0.21 ft

Soil Color: 7.5YR 3/2 Color:                       
 2nd Soil Color:                     

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: Sandy loam  
 USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:                     

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other NONE

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 5YR 5/8 USDA Texture:                     

Notes: Redox concentrations

Tim?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  ISAK LDC

**Internal Remarks**

11/1 1126

Client: CEC / Arcenic  
 Site Name: Elliott Ditch  
 Project Name: 172-367  
 Task #: 0008  
 Log Date: 11/13/17 LDC

Location ID: ED-01.24-S101 Interval: 0.27 ft to 1.0 ft

Horizon: B Gap: 0 ft

Color  
 Soil Color: 10YR 6/14 2nd Soil Color:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: silty loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other NONE

Tim?  Lacustrine?  Sand/gravel bed?

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 % Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:           

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK - LDC

**Internal Remarks**

Sample Remarks:           

Internal Remarks: 11/1 1144

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED-01.24-SLG3  
 Core Type:  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: BAK  
 Cored Date: 11/1/2017  
 Described By:  
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5'					12:03

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CFC/Arconic  
 Site Name: Elliot Ditch  
 Project Name: 172-3067  
 Task #: 0002  
 Log Date: 11/13/17

Location ID: ED-0134-SL03 Interval: 0 ft to 0.5 ft

Horizon: A Gap: 0 ft

Soil Color: 7.5YR 3/2 2nd Soil Color:             
 Color:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: very fine sandy loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  260%

Odor?  Petrochemical  Sulfur  Other Alum

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Color:            USDA Texture:           

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK LOC

**Internal Remarks**

11/1 1203

**Notes**

Till?  Lacustrine?  Sand/gravel bed?



# Sediment Data Sheet

replaces ED-01.39-

**Project Name:**  
**Project Number:**  
**Field Location ID:** ED-01.37 SD01  
**Core Type:** upland  
**Field Remarks:**  
**Northing: (ft)**  
**Easting (ft):**

**Cored By:** LDC BAK  
**Cored Date:** 11/2  
**Described By:**  
**Described Date:** 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
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Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-0.5	0.38	76%	0911
0.5-0.9	0.4	100%	0915

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



Client: CEC / Arcenic Location ID: ED-01.37-SL01 Interval: 0 ft to 0.9 ft

Site Name: Ellistt Ditch  
Project Name: 172 367  
Task #: 0002  
Log Date: 11/3/17

Horizon: A Gap: 6.12 ft  
Soil Color: 2.5YR 2.5/1 2nd Soil Color:                       
Color                     

**Lab Data**

Duplicate?  FD  
Grab?   
Composite?   
Matrix:  Sediment  Soil  Air  Water  
# of Containers: 2  
Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: silty loam  
USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:                       
Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many  
Rocks?  <15% None  15-35%  35-60%  60-90%  ≥80%  
Odor?  Petrochemical  Slight  Sulfur  Moderate  Other None  Strong  
Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
Wood %  %  
Shells?  Plant Fragments?   
Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
Color                       
USDA Texture                     

**Field Personnel**

Logged By: JAS  
Data Entry By:  Same as above  JDC

**Internal Remarks**

Sample Remarks                       
Internal Remarks 11/2 0911

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

replaces ED-01.39- (7-7)

Project Name:  
 Project Number:  
 Field Location ID:  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

ED-01.37-SLOZ  
 terrace T-7

Cored By: LDC BAK  
 Cored Date: 11/2  
 Described By:  
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-0.5	0.48	96	0925
0.5-1.0	0.48	96	0926
1.0-1.5	0.41	82	0928
1.5-2.0	0.32	64	0930

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEL / Arcenic Location ID: E15-01.37-SL02 Interval: 0 ft to 0.27 ft

Site Name: Ellick Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017

Horizon: 0A Gap: 0.02 ft

Soil Color: 10YR 3/2 2nd Soil Color:           

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Sandy loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other: None

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:           

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK, LOC

**Internal Remarks**

replaces CD-01.39 T-7 - approx. mile marker

**Notes**

11/2 0925

TH?  Lacustrine?  Sand/gravel bed?

Client: CEC / Arcenic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 0902  
 Log Date: 11/2/2017

Location ID: ED-0137-SLD2 Interval: 0.27 ft to 0.97 ft

Horizon: 1A Gap:      ft

Soil Color: 10YR 4/6 2nd Soil Color: 10YR 2/1

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy clay loam

USCS Texture: ML

**Structure**

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input checked="" type="checkbox"/> Moderate
<input checked="" type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other	

**Plasticity**

Non-plastic

Slightly Plastic

Moderately Plastic

Very Plastic

**Other Characteristics**

<input checked="" type="checkbox"/> Roots? Few	<input type="checkbox"/> Wood?
<input type="checkbox"/> Common	<input type="checkbox"/> Black Wood
<input type="checkbox"/> Many	<input type="checkbox"/> Burned Wood
	<input type="checkbox"/> Sawdust
	<input type="checkbox"/> Wood Chips
	<input type="checkbox"/> Wood Pulp
	<input type="checkbox"/> Charcoal
	Wood % <u>    </u> %
	Shells? <input type="checkbox"/> Plant Fragments? <input type="checkbox"/>
<input checked="" type="checkbox"/> Rocks? <15%	Sublayers? <input checked="" type="checkbox"/> <0.05 ft
<input type="checkbox"/> 15-35%	<input type="checkbox"/> 0.05-0.1 ft
<input type="checkbox"/> 35-60%	<input type="checkbox"/> 0.1-0.2 ft
<input type="checkbox"/> 60-90%	<input type="checkbox"/> 0.2-0.5 ft
<input type="checkbox"/> >90%	<input type="checkbox"/> >0.5 ft
	Color <u>5YR 5/8</u>
<input type="checkbox"/> Odor? Petrochemical	USDA Texture
<input type="checkbox"/> Sulfur	<u>Redox Concretions</u>
<input type="checkbox"/> Other <u>N/A</u>	

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK

**Internal Remarks**

11/2 0926

**Notes**

Till?  Lacustrine?  Sand/gravel bed?



TETRA TECH

# Soil Log

Version 1.2, 1/20/16

Client: Cec Arconic  
 Site Name: Elliott Ditch  
 Project Name: 177367  
 Task #: 002  
 Log Date: 11/3/17

Location ID: ED-01.37-5L67 Interval: 0.92 ft to 1.07 ft  
 Horizon: 2A Gap:  ft  
 Soil Color: 7.5YR 2.5/1 2nd Soil Color:

0.08 + 0.07 = 0.15

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers:

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: sandy clay loam  
 USCS Texture: MH

**Structure**

Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:

Grade:  Weak  
 Moderate  
 Strong

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

### Other Characteristics

**Roots?**  Few  Common  Many

**Rocks?**  <15%  
 15-35%  
 35-60%  
 60-90%  
 ≥90%

**Odor?**  Petrochemical  
 Sulfur  
 Other N/A

**Wood?**  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood %:  %

Shells?  Plant Fragments?

**Sublayers?**  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Color:   
 USDA Texture:

### Field Personnel

Logged By: JAS  
 Data Entry By:  Same as above  LOC

### Internal Remarks

Sample Remarks:

Internal Remarks: 11/2 0928

### Notes

Till?  Lacustrine?  Sand/gravel bed?



Client: CEC / Arconic  
 Site Name: Elliott Ditch  
 Project Name: 177 367  
 Task #: 6002  
 Log Date: 11/3/17

Location ID: EO-01.37-SL02 Interval: 1:07 ft to 2.0 ft

Horizon: 3A Gap:  ft

Soil Color: 10YR 3/2 Color                       
 2nd Soil Color:

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: loamy sand  
 USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other N/A

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %  %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color  USDA Texture None

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  VAC

**Internal Remarks**

Sample Remarks:

Internal Remarks: 11/2 0930

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
Project Number:  
Field Location ID: E1-01.49-SL01  
Core Type:  
Field Remarks:  
Northing (ft):  
Easting (ft):

Cored By: BAK  
Cored Date: 11/1/2017  
Described By:  
Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
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0.5

13:46

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

0.5

0.5

100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



Client: CEC/Arcenic  
 Site Name: Elliot D. 165  
 Project Name: 172-267  
 Task #: 0082  
 Log Date: 4/2/2017 11/3/17

Location ID: ED-0149-SL01 Interval: 0 ft to 0.5 ft

Horizon: A Gap: 0 ft

Soil Color: 10YR 4/3 2nd Soil Color:             
 Color           

**Lab Data** (LDC)

Duplicate?  FD  
 Grab?  (DC)  
 Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 42

Priority: (LDC)  
 Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: sandy clay loam  
 USCS Texture: MH

**Structure**

Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:           

Grade:  Weak  
 Moderate  
 Strong

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**

Roots?  Few  
 Common 0.06-0.5  
 Many 0-0.06

Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%

Odor?  Petrochemical  
 Sulfur  
 Other None

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Color:             
 USDA Texture:           

**Field Personnel**

Logged By: JAS  
 Data Entry By:  Same as above  
 BAK LOE

**Internal Remarks**

11/1 1340

**Notes**

Tilt?  Lacustrine?  Sand/gravel bed?

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID:  
 Core Type:  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

ED-01.49-SLO2

Cored By: BAK  
 Cored Date: 11/1/2017  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					13:50
0.5-1.0					13:55

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

0.5	0.5	100%
0.5	0.34	68%

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_

Client: CEC / Accionik  
 Site Name: Fill of Ditch  
 Project Name: 172-367  
 Task #: 0002  
 Log Date: 11/2/2017 11/3/17  
WPC

Location ID: ED-01.49-SLO2 Interval: 0 ft to 1.0 ft

Horizon: A Gap: 0.16 ft  
(0.5' - 1.0')

Soil Color: 7.5YR 2.5/1 2nd Soil Color:

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other None

Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 10YR 6/4 USDA Texture:

Notes:  Sandy Silt

TM?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK LOC

**Sample Remarks**

Internal Remarks:  11/1 0.0-0.5 1350 0.5-1.0 1355

Sample Remarks:  sublayer @ ~0.8'

few Redox concretions - color: 5YR4

# Sediment Data Sheet

Project Name:  
 Project Number:  
 Field Location ID: ED - 01.49 SLO4  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: BAK  
 Cored Date: 11/1/17  
 Described By:  
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					14:10
0.5-1.0					14:17
1.0-1.5					14:25
1.5-2.0					14:33

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.5	100%
0.5	0.37	72%
0.5	0.42	84%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client: CEC / Arcenic  
 Site Name: Elliot Pkwy  
 Project Name: 172-267  
 Task #: 0002  
 Log Date: 4/2/2017 11:31Z

Location ID: ED-01.49-S104 Interval: 0 ft to 1.81 ft

Horizon: A1 Gap: 0.23 ft

Soil Color: 10YR 2/2 Color:           
 2nd Soil Color:         

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 13

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: silty loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:         

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rods?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other NONE

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Color:          USDA Texture: NONE

Notes:  T#?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  BAK LOC JAS

**Sample Remarks**

**Internal Remarks**

1111  
0-0.5 1410  
0.5-1.0 1417  
1.0-1.81 1427

Client: CEL/Arctic  
 Site Name: Elliot Ditch  
 Project Name: 172-367  
 Task #: 002  
 Log Date: 11/2/2017 113117

Location ID: ED-0149-804 Interval: 1.81 ft to 2.0 ft

Horizon: A2 Gap:          ft

Soil Color: 10YR 4/3 Color           
 2nd Soil Color:         

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: sandy loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:         

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other NONE

Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %          %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color          USDA Texture         

Notes:         

TH?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: JAS

Data Entry By:  Same as above  JAS LOC JAS

**Sample Remarks**

**Internal Remarks**

11/1 1-133

Soil  
**Sediment Data Sheet**

(6)

Project Name: ELLIOTT DITCH  
 Project Number: 172-367-0006  
 Field Location ID: ED-00.00-SL01  
 Core Type:  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: MWB / DMM  
 Cored Date: 02/07/18 0925  
 Described By: DMM  
 Described Date: 02/09/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

*Hours*  
 0-4                      41.25  
                              3.44                      86%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

**Soil Log**  
Version 1.2, 1/20/16

Location ID: ED-00.00-SL01 Interval: 0 ft to 0.9 ft

Client: CEC/ABONIC      Horizon: 1A      Gap: 0 ft

Site Name: ELLIOTT DITCH      Soil Color: 10YR 5/3      2nd Soil Color: 10YR 2/1

Project Name: 172-307      Texture: SILTY LOAM      Structure: MH

Task #: 0006      USDA Texture: SILTY LOAM      USCS Texture: MH

Log Date: 02/09/13      Lab Data

Duplicate?       Grab?       Composite?       Matrix:  Sediment       Soil       Air       Water

# of Containers: 1      Priority:  Urgent (1)       Standard (2)       As Able (3)       As Needed (4)

Field Personnel: DM / MW      Logged By: DM / MW      Date Entry By:  Same as above

Plasticity:  Non-plastic       Slightly Plastic       Moderately Plastic       Very Plastic

Other Characteristics:  Very Fine       Fine       Medium       Coarse       Very Coarse

Rocks?  Few       Common       Many       <15%       15-35%       35-60%       60-90%       >90%

Odor?  Petrochemical       Sulfur       Other N/A

Wood?  Wood       Black Wood       Burned Wood       Sawdust       Wood Chips       Wood Pulp       Charcoal

Wood % 0 %      Shells?  Plant Fragments?

Sublayers?  <0.05 ft       0.05-0.1 ft       0.1-0.2 ft       0.2-0.5 ft       >0.5 ft

Notes: 02/09/13  
0925

Till?  Lacustrine?  Sand/gravel bed?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



Page \_\_\_\_\_ of \_\_\_\_\_

**Soil Log**  
Version 1.2, 1/20/16

Location ID: ED-00.00-S L01 Interval: 0-91 in to 2-21 in

Client: CEC/ABLONIC Project Name: ELLIOTT DITCH Task #: 0006 Log Date: 12/09/18

Horizon: 2A Gap: — in

Soil Color: 10YR 3/1 2nd Soil Color: 10YR 5/6

Texture: SILTY LOAM Structure: MH

USDA Texture: SILTY LOAM USCS Texture: MH

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 2 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: DMM / MWB Data Entry By:  Same as above

Other Characteristics: Wood?  Wood  Brick Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood % 0 % Shells?  Plant Fragments?  Rocks?  Few  Common  Many   <15%  15-35%  35-60%  60-90%  90%  Petrochemical  Sulfur  Other DMM

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft Color: 5Y 2.5/1

Notes: LOAM

T/HP  Lacustrine?  Sand/gravel bed?

Sample Remarks: \_\_\_\_\_ Internal Remarks: \_\_\_\_\_

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page \_\_\_\_\_ of \_\_\_\_\_

**Soil Log** Version 1.2, 1/20/16

Location ID: ED-00.00-SLO1 Interval: 2.21 R to 3.12 R

Client: CEC/ARLONIC Horizon: Burb 3A Gap: ⊕ ft

Site Name: ELLIOTT DITCH Soil Color: 10YR 4/3 2nd Soil Color: 10YR 3/1

Task #: 0006 Texture: SANDY LOAM Structure: MLK

Log Date: 02/09/13 USDA Texture: MLK USCS Texture: MLK

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: DNM / MWP

Data Entry By:  Same as above

**Other Characteristics**

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  90-100%

Odor?  Petrochemical  Sulfur  Other N O WZ

Sublayers?  ≤0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: \_\_\_\_\_

USDA Texture: \_\_\_\_\_

**Notes**

Tim?  Lacustrine?  Sand/gravel bed?

Internal Remarks: 02/07/13  
0925

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page \_\_\_\_\_ of \_\_\_\_\_

## Sediment Log

Version 1.2, 1/2016

Location ID: ED-00-00-5L01 Interval: 3.12 ft to 3.44 ft

Client: C. ELLIOTT DITCH Layer: B Gap: — ft

Site Name: ELLIOTT DITCH Sediment Color: 10YR 4/6 2nd Sediment Color:           

Project Name: 172-367 Sediment Color:           

Task #: 0006 Sediment Color:           

Log Date: 02/09/13 Sediment Color:           

**Lab Data**

Duplicate?  Grab?  Composter?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: SANDY CLAY

USCS Texture: CH

Structure

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  90%

Odor?  Petrochemical  Sulfur  Other None

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:

**Field Personnel**

Logged By: DMW / MWB

Data Entry By:           

Same as above

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Internal Remarks: 02/07/13  
0925

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil  
**Sediment Data Sheet**

(5)

Project Name: ELLIOTT DITCH  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.02-SL01  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: MWB/DMM  
 Cored Date: 02/07/13 0938  
 Described By: DMM  
 Described Date: 02/09/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-4'	4'	100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 5

**Soil Log** Version 1.2, 1/20/16

Location ID: ED-00-02-SLO1 Interval: 0 ft to 0.63 ft

Client: CEC/ARLONIC Horizon: 1A Gap: 0 ft

Site Name: ELLIOTT DITCH Soil Color: 10YR 2/1 2nd Soil Color: -

Project Name: 172-367 Texture: SILTY LOAM

Task #: 0006 USCS Texture: MH

Log Date: 02/09/13

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: DMM / MWB

Data Entry By:  Same as above

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Texture**

USDA Texture: SILTY LOAM

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massve  Other: \_\_\_\_\_

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Color?  Petrochemical  Sulfur  Other

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: \_\_\_\_\_

USDA Texture: \_\_\_\_\_

**Notes**

Thin?  Lacustrine?  Sand/gravel bed?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

**Sediment Log** Version 1.2, 1/20/18 Page 2 of 5

Location ID: ED-00-02-SL01 Interval: 0.63 ft to 1.76 ft

Client: CEC/ARCNIC Layer: 2A Gap: 0 ft

Site Name: ELLIOTT DITCH Sediment Color: 512 4/6 2nd Sediment Color: —

Project Name: 172-367 Texture: LOAMY SAND Structure: Weak

Task #: 0006 USCS Texture: SM USDA Texture: —

Log Date: 02/09/18

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: DMW/MWB

Data Entry By:  Same as above

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  90-100%

Odor?  Petrochemical  Sulfur  Other py/ME

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color — USDA Texture —

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Sample Remarks: 02/09/18

Internal Remarks: 0938

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.



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**Soil Log** Version 1.2, 1/20/16

Client: CEC/KALWANIC Location ID: ED-00-02-601 Interval: 2.18 ft to 3.43

Site Name: ELLIOTT DITCH Horizon: 4A Gap: 0 ft

Project Name: 72-367 Soil Color: 10YR 3/4 2nd Soil Color: -

Task #: 0006 Texture: LOAMY SAND Structure: -

Log Date: 02/09/18 USCS Texture: SM Grade: Weak  Weak  Moderate  Strong

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**

Logged By: DM DM DM

Data Entry By:  Same as above

**Texture**

USDA Texture: LOAMY SAND

USCS Texture: SM

**Type**

Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: -

**Structure**

Very Fine  Fine  Medium  Coarse  Very Coarse

**Other Characteristics**

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  90%

Shells?  Plant Fragments?

Odor?  Petrochemical  Sulfur  Other NONE

Sublayers?  ≤0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: - USDA Texture: -

**Notes**

TIP?  Lacustrine?  Sand/gravel bed?

Sample Remarks: 02/07/18

Internal Remarks: 0988

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



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**Soil Log** Version 1.2, 1/2016

Client: CEC/ARCONIC Location ID: ED-00-02-SL01 Interval: 3.43 ft to 4 ft

Site Name: ELLIOTT DITCH Horizon: B Gap: 0 ft

Project Name: 172-367 Soil Color: 10YR 2/1 2nd Soil Color:         

Task #: 0006 Color:         

Log Date: 02/09/13

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: LOAMY CLAY

USCS Texture: CL

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:         

Grade: Weak  Moderate  Strong

**Other Characteristics**

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:         

USDA Texture:

**Roots?**  Few  Common  Many

**Rocks?**  <15%  15-35%  35-60%  60-90%  >90%

**Odor?**  Petrochemical  Sulfur  Other

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

**Plasticity**

Non-Plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**

Logged By: JMM / MWB

Data Entry By:  Same as above

**Sample Remarks**

**Internal Remarks**

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil  
**Sediment Data Sheet**

6

Project Name: ELLIOTT DITCH  
Project Number: 172-367-0006  
Field Location ID: ED-00.05 - SLO1  
Core Type:  
Field Remarks:  
Northing (ft):  
Easting (ft):

Cored By: MWB/DMM  
Cored Date: 02/07/13 10.03  
Described By: DMM  
Described Date: 02/09/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 4'	4'	100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 4

Soil Log Version 1.2, 1/20/16

Location ID: ED-00.05-SL01 Interval: 0 ft to 0.67 ft

Client: CELTRONIC Site Name: ELLIOTT DITCH Project Name: 172-367 Task #: 0006 Log Date: 02/12/18

Horizon: 1A Gap: 0 ft

Soil Color: 5YR 2.5/1 2nd Soil Color: -

Texture: SILTY LOAM Structure: MIT

USDA Texture: SILTY LOAM USCS Texture: MIT

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: DMW / MWB Data Entry By:  Same as above

Other Characteristics: Roots?  Few  Common  Many  Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood % 0 % Shells?  Plant Fragments?  Rocks?  <15%  15-35%  35-60%  60-90%  ≥90% Odor?  Petrochemical  Slight  Moderate  Strong  Sulfur  Other  Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft Color: - USDA Texture: -

Notes:  Thi?  Lactinme?  Sand/gravel bed?

Sample Remarks: \* slight odor Internal Remarks: 02/07/18  
PO3

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Sediment Log**  
Version 1.2, 1/20/16

Location ID: ED-00.05-SLO1 Interval: 0.67 ft to 1.4 ft

Client: CEC/KAWONIC Layer: 2A Gap:      ft

Site Name: ELLIOTT OITC4 Sediment Color: 10YR 4/4 2nd Sediment Color:     

Project Name: 172-367 Texture: LOAM Structure:     

Task #: 0006 USDA Texture:      USCS Texture: MH

Log Date: 02/12/18

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: DMM / MWB

Date Entry By:  Same as above

**Sample Remarks**

\* Dark staining

\* slight odor

**Internal Remarks**

02/07/18

1003

**Roots?**  Few  Common  Many

**Rocks?**  <15%  15-35%  35-60%  60-90%  90%

**Odor?**  Petrochemical  Slight  Moderate  Strong  Sulfur  Other

**Plasticity**

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input checked="" type="checkbox"/> Moderately Plastic
<input type="checkbox"/> Very Plastic

**Other Characteristics**

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  -0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 10YR 4/3 USDA Texture: LOAMY SAND

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 3 of 4

**Sediment Log** Version 1.2, 1/20/16

Location ID: ED-00-05-SL01 Interval: 1.4 ft to 2.3

Client: CeC/ARONIC Site Name: ELLIOTT DITCH Project Name: 172-367 Task #: 0006 Log Date: 02/12/18

Layer: 3A Gap: 0 ft

Sediment Color: 5Y 3/1 2nd Sediment Color: -

Texture: SILTY LOAM Structure: Weak

USDA Texture: MH USCS Texture: MH

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Other Characteristics: Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood % 0 %

Rocks?  Few  Common  Many  Roots?  <15%  15-35%  35-60%  60-90%  90% Odor?  Petrochemical  Sulfur  Other  Shells?  Plant Fragments?  Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: DMW / MWP Data Entry By:  Same as above

Sample Remarks: \* slight odor Internal Remarks: 02/07/18  
1003

Notes:  Lacustrine?  Sand/gravel bed?  Tilt?  USDA Texture: -

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 4 of 4

**Sediment Log** Version 1.2, 1/20/16

Location ID: ED-00-05-SL01 Interval: 2-3 ft to 4.0 ft

Client: CEC/ARUNIC Layer: 4A Gap: 0 ft

Site Name: ELLIOTT DITCH Sediment Color: 10YR 4/4 2nd Sediment Color: -

Project Name: 172-369 Sediment Color: 10YR 4/4 2nd Sediment Color: -

Task #: 0006 Color: 10YR 4/4

Log Date: 02/12/18

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: LOAMY SAND

USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  90%

Odor?  Petrochemical  Slight  Moderate  Strong  Other: NO

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 10YR 5/6

USDA Texture: LOAM

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**

Logged By: DMM / MWB

Date Entry By:  Same as above

**Sample Remarks**

Internal Remarks: 02/07/18  
1003

Notes:  Lacustrine?  Sand/gravel bed?

Till?

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

# Sediment Data Sheet

Project Name: ELLIOTT DITCH  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.03-SL03  
 Core Type:  
 Field Remarks:  
 Northing (ft)  
 Easting (ft)

Cored By: MWB / DMN  
 Cored Date: 02/07/08 1010  
 Described By: DMN  
 Described Date: 02/09/19

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
3'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-4'	3.5'	89%
4-8'	4'	100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 6

**Sediment Log**  
Version 1.2 1/20/16

Location ID: ED-00.08-5L03 Interval: 0 ft to 1.25 ft

Client: CEC ARCONIC Layer: 1A Gap: 0-25 ft

Site Name: ELLIOTT DITCH Sediment Color: 10YR 5/6 2nd Sediment Color: —

Project Name: 172-369 Color: —

Task #: 0006 Texture: SILTY LOAM Structure: Weak

Log Date: 02/12/18 USCS Texture: MH

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: MWB/DWM

Data Entry By:  Same as above

**Other Characteristics**

Rocks?  Few  Common  Many

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Odor?  Petrochemical  Slight  Moderate  Strong

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: — USDA Texture: —

**Notes**

TIP?  Lacustrine?  Sand/gravel bed?

Sample Remarks: 02/07/18  
1010

Internal Remarks: 02/07/18  
1010

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.



Page 2 of 6

**Sediment Log** Version 1.2 1/20/16

Location ID: ED-00-08-SLOS Interval: 1.25 ft to 2.25 ft

Client: C E C / KR KONIC Layer: 2A n

Site Name: ELLIOTT DITCH Sediment Color: 10YR 3/1 Color

Project Name: R2-367 2nd Sediment Color: -

Task #: 0006

Log Date: 02/12/13

**Lab Data**

Duplicate?  Grab?  Composite?

Main:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: DMM MWB

Data Entry By:  Same as above

**Texture**

USDA Texture: SILTY LOAM

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Rods?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  ≥90%

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Odor?  Petrochemical  Slight  Moderate  Strong  Sulfur  Other

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color - USDA Texture

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Sample Remarks: 50% gravel

Internal Remarks: 02/07/13  
1010

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Sediment Log** Version 1.2, 1/20/16

Location ID: ED-00-08-SL03 Interval: 325 ft to 275 ft

Client: CEC/ARLONIC Layer: 1B ft

Site Name: ELLIOTT DITCH Sediment Color: 2-5Y 5/3

Project Name: 172-367 2nd Sediment Color:                     

Task #: 0006 Gap:                      ft

Log Date: 02/02/18 Color:                     

**Lab Data**

Duplicate?  Grab?  Composite?

Meibx:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: SANDY CLAY

USCS Texture: MH

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:                     

Structure:                     

Grade:  Weak  Moderate  Strong

**Field Personnel**

Logged By: DMW / MWB

Data Entry By:  Same as above

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few None  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  90-100%

Odor?  Petrochemical  Sulfur  Other

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:                     

USDA Texture:

**Notes**

TIP?  Lacustrine?  Sand/gravel bed?

**Sample Remarks**

\*Stained

**Internal Remarks**

02/07/18  
(010)

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Sediment Log**  
Version 1.2, 1/20/16

Client: **TETRA TECH**  
 Site Name: **CEC/ARLONIC**  
 Project Name: **ELLIOTT DITCH**  
 Task #: **172-367**  
 Log Date: **02/12/18**

Location ID: **ED-00.08-SL03** Interval: **2.75** ft to **5.6** ft  
 Layer: **2B** Gap: **0** ft  
 Sediment Color: **6YR 2/1** 2nd Sediment Color: **10Y 5/4**

**Lab Data**  
 Duplicates?  Grab?  Composites?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: **3** Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**  
 USDA Texture: **CLAY**  
 USCS Texture: **CL**

**Structure**  
 Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_  
 Grade:  Weak  Moderate  Strong

**Other Characteristics**  
 Roots?  Few  None  Common  Many  
 Rocks?  <15%  15-35%  35-60%  60-90%  >90%  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood %: **0** %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color: **—** USDA Texture: \_\_\_\_\_

**Plasticity**  
 Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**  
 Logged By: **DMN / MWB**  
 Data Entry By:  Same as above

**Notes**  
 Tilt?  Lacustrine?  Sand/gravel bed?

**Sample Remarks**  
**\* Stained**  
**\* Strong petrochemical odor**  
**Mical odor**

**Internal Remarks**  
**02/07/18**  
**1010**

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Sediment Log**  
Version 1.2, 1/20/18

Client: CFC/ARLONIC  
 Site Name: ELLIOTT DITCH  
 Project Name: 172-367  
 Task #: 0006  
 Log Date: 02/12/18

Location ID: ED-00.03-SL03  
 Interval: 56 ft to 7 ft

Layer: 3B  
 Gap: 0.4 ft

Sediment Color: 10YR 4/4  
 2nd Sediment Color: 10YR 3/4

**Lab Data**  
 Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 2  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**  
 USDA Texture: SILTY CLAY  
 USCS Texture: CL

**Structure**  
 Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:  
 Grade: Weak   
 Moderate  
 Strong

**Field Personnel**  
 Logged By: DMW / MWB  
 Data Entry By:  Same as above

**Other Characteristics**  
 Roots?  Few  Common  Many  
 Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%  
 Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal  
 Wood % 0 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft  
 Color: —  
 USDA Texture: —

**Notes**  
 Tilt?  Lacustrine?  Sand/gravel bed?   
 Internal Remarks: 02/07/19  
1010  
 Sample Remarks: \*stained

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Sediment Log**  
Version 1.2, 1/20/16

Location ID: ED-00.08-SLO3 Interval: 7 ft to 8 ft

Client: CEC/ARLONIC Layer: 4B Gap: 0 ft

Site Name: ELLIOTT DITCH Sediment Color: 2.5Y 5/3 Color

Project Name: 172-367 2nd Sediment Color:                     

Task #: 0006 Texture: SANDY CLAY Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:                     

Log Date: 02/12/13 USCS Texture: MH Grade:  Weak  Moderate  Strong

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: DMW/MWB Defa Entry By:  Same as above

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Rocks?  Few  Common  Many  <15%  15-35%  35-60%  60-90%  90%+  Petrochemical  Sulfur  Other NONE

Other Characteristics: Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood % 0 %  Shells?  Plant Fragments?  Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  Color                      USDA Texture                     

Notes: Tilt?  Lacustrine?  Sand/gravel bed?  Sample Remarks: 02/07/13 Internal Remarks: 1010

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil  
**Sediment Data Sheet**

9

Project Name: ELLIOTT DITCH  
 Project Number: 172-367  
 Field Location ID: ED-00-08-SLOS  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: MWB/DMM  
 Cored Date: 02/07/18 1026 - 1030  
 Described By: DMM  
 Described Date: 02/12/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
8'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 4'	4'	100%
4 - 8'	4'	100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 5

**Soil Log**  
Version 1.2, 1/20/16

Location ID: ED-00.08-SLOS Interval: 0 ft to 0.67 ft

Client: CEC/ARLONIC Project Name: ELLIOTT DITCH Task #: 0006 Log Date: 02/12/18

Horizon: 1A Gap: 0 ft

Soil Color: 2.5Y 2.5/1A 2nd Soil Color: -

Texture: SILTY LOAM Structure: MA

USDA Texture: SILTY LOAM USCS Texture: MA

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment,  Soil,  Air,  Water # of Containers: 1 Priority:  Urgent (1),  Standard (2),  As Able (3),  As Needed (4)

Plasticity: Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: MWB/AMM Data Entry By:  Same as above

Other Characteristics: Roots?  Few,  Common,  Many; Rocks?  <15%,  15-35%,  35-60%,  60-90%,  >90%; Wood?  Wood,  Black Wood,  Burned Wood,  Sawdust,  Wood Chips,  Wood Pulp,  Charcoal; Wood %: 0 %; Shells?  Plant Fragments?  Sublayers?  <0.05 ft,  0.05-0.1 ft,  0.1-0.2 ft,  0.2-0.5 ft,  >0.5 ft; Color: -; USDA Texture: -

Notes: \* odor 02/07/18 1026

Tilt?  Lacustrine?  Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log**  
Version 1.2, 1/20/16

Client: CEC/MRONIC  
 Site Name: ELLIOTT DITCH  
 Project Name: 192-367  
 Task #: 0006  
 Log Date: 02/12/13

Location ID: ED-00-08-SLOS  
 Interval: 0.67 ft to 1.25 ft  
 Horizon: 2A  
 Gap: 0

**Lab Data**  
 Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 1  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Field Personnel**  
 Logged By: MWB/DMM  
 Data Entry By:  Same as above

**Soil Color**  
 Soil Color: 2.5Y 3/2  
 2nd Soil Color: —

**Texture**  
 USDA Texture: LOAMY SILT  
 USCS Texture: OL

**Structure**  
 Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:             
 Grade:  Weak  
 Moderate  
 Strong

**Other Characteristics**  
 Roots?  Few  
 Common  
 Many  
 Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%  
 Odor?  Petrochemical  
 Sulfur  
 Other  
 Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal  
 Wood % 0%  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft  
 Color: —  
 USDA Texture:           

**Plasticity**  
 Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Notes**  
 Till?  Lacustrine?  Sand/gravel bed?   
 Sample Remarks: \*odor  
 Internal Remarks: 02/07/13  
6026

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



Page 3 of 5

Version 1.2, 1/20/16  
**Soil Log**

Location ID: ED-00-08-SLOS Interval: 1-25 ft to 2.1 ft

Client: CEC/ARCONIC Horizon: 3A Gap: 0 ft

Site Name: ELLIOTT DITCH Project Name: 172-367 Task #: 0006 Log Date: 02/02/18

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: LOAMY SAND

USCS Texture: SM

**Color**

Soil Color: 2.5Y 4/3 2nd Soil Color: -

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: - USDA Texture: \_\_\_\_\_

**Field Personnel**

Logged By: DMM/MWB

Data Entry By:  Same as above

**Internal Remarks**

2/07/18  
1026

**Notes**

Till?  Lactinme?  Sand/gravel bed?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log Version 1.2, 1/20/16

Location ID: ED-00.08-SLOS Interval: 2-1 ft to 3 ft

Client: CEC/ARCONIC Horizon: 1B Gap: 0 ft

Site Name: ELLIOTT DITCH Soil Color: 10YR 5/3 2nd Soil Color: 5YR 7/3

Project Name: 172-367 Texture: SILTY CLAY Structure: CL

Task #: 0006 USDA Texture: CL USCS Texture: CL

Log Date: 02/12/18 Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: Dana / MWB Date Entry By:  Same as above

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Other Characteristics: Roots?  Few  None  Common  Many  Rocks?  <15%  15-35%  35-60%  60-90%  >90% Odor?  Petrochemical  Sulfur  Other  Shells?  Plant Fragments?  Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood % 0 %

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft Color: — USDA Texture: —

Notes:  Till?  Lacustrine?  Sand/gravel bed?

Sample Remarks: 02/07/18  
1026

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Sediment Log**  
Version 1.2, 1/23/16

Location ID: ED-00-08-SLOS Interval: 3 ft to 3.8 ft

Client: ETRA TECH CEC/ARLONIC  
 Site Name: ELLIOTT DITCH  
 Project Name: 192-369  
 Task #: 0000  
 Log Date: 02/12/18

Layer: 2B Gap: 0 ft

Sediment Color: 10YR 4/1 2nd Sediment Color: 10YR 5/6

**Texture**  
 USDA Texture: CLAY  
 USCS Texture: CL

**Structure**  
 Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_  
 Grade:  Weak  Moderate  Strong

**Lab Data**  
 Duplicate?  Grab?  Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 5  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Plasticity**  
 Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**  
 Logged By: DMM / MMB  
 Data Entry By:  Same as above

**Other Characteristics**  
 Rocks?  Few  Common  Many None  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood %: 0 %  
 Sheels?  Plant Fragments?   
 Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color: 10YR 4/1  
 USDA Texture: SANDY CLAY

**Notes**  
 Tilt?  Lacustrine?  Sand/gravel bed?

**Sample Remarks**  
\*Strong odor

**Internal Remarks**  
02/07/18

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

S.O.L  
**Sediment Data Sheet**

④

Project Name: ELLIOTT DITCH  
 Project Number: 172-367  
 Field Location ID: EO-00.13-SLOA  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: MWS/DMM  
 Cored Date: 02/07/18 1033  
 Described By: DMM  
 Described Date: 02/12/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-4'	3.08	77%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 3

**Sediment Log**  
Version 1.2, 1/20/16

Client: CEC/ALCONIC Location ID: ED-00.13-SLO1 Interval: 0 ft to 0.07 ft

Site Name: ELLIOTT DITCH Layer: 1A Gap: 0 ft

Project Name: 172-367 Sediment Color: 2.5Y 3/1 2nd Sediment Color:           

Task #: 0006 Color:           

Log Date: 02/17/18

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: SILTY LOAM

USCS Texture: MH

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Structure:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  ≥90%

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: DMM/MWP Data Entry By:  Same as above            

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:           

Notes:  Tuff?  Lacustrine?  Sand/gravel bed?

Sample Remarks:            Internal Remarks: 02/07/18  
1033

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 2 of 3

## Sediment Log

Version 1.2, 1/20/16

Location ID: ED-00.13-SL01 Interval: 0.69 ft to 2.75 ft

Client: CEC/ARCONIC Layer: 2A Gap: - ft

Site Name: ELLCOTT DITCH Sediment Color: 10YR 4/3 2nd Sediment Color: -

Project Name: 172-367 Color

Task #: 6006

Log Date: 02/12/19

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: SANDY LOAM

USCS Texture: SM

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  90%

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: DMM / MWB

Logged By: \_\_\_\_\_ Data Entry By:  Same as above

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: \_\_\_\_\_ USDA Texture: \_\_\_\_\_

Notes:  Tim?  Lacustrine?  Sand/gravel bed?

**Sample Remarks**

\* Gravel

\* Stained

**Internal Remarks**

02/07/18

1033

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 3 of 3

## Sediment Log

Version 1.2, 1/20/16

Client: CEC/ARCONIC Location ID: ED-00-13-SL01 Interval: 2.75 ft to 3.08 ft

Site Name: ELLIOTT DITCH Layer: B Gap: 0.92 ft

Project Name: 172-367 Sediment Color: gray 2nd Sediment Color:  

Task #: 0006 Sediment Color:  

Log Date: 02/12/13 Sediment Color:  

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 4

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: SILTY CLAY

USCS Texture: CL

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:  

Structure:  

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: DAM/MB

Logged By:   Data Entry By:  Same as above

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:   USDA Texture:  

Notes:  TIM?  Lacustrine?  Sand/gravel bed?

**Sample Remarks**

\* Stained

\* Strong odor

**Internal Remarks**

02/07/13

1033

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil  
**Sediment Data Sheet**

(5)

Project Name: ELLIOTT DITCH  
 Project Number: 172-307.0006  
 Field Location ID: ED-00.17-SLO1  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: MWB/DMM  
 Cored Date: 02/07/13  
 Described By: Pmm/MWB 1041  
 Described Date: 02/12/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-4'	4	100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



Page 1 of 2

**Sediment Log**  
Version 1.2, 1/20/16

Location ID: ED - 00.17 - SLO1 Interval: 0 ft to 0.75 ft

Client: CEC/APLONIC Layer: 1A Gap: 0 ft

Site Name: ELLIOTT DITCH Sediment Color: 2.5Y 2.5/1 2nd Sediment Color: —

Project Name: 172-367 Texture: SILTY LOAM Structure: MH

Task #: 0006 USCS Texture: MH

Log Date: 02/12/13

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: DMM/MWB

Data Entry By:  Same as above

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other none

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:  USDA Texture:

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Sample Remarks:

Internal Remarks: 02/12/13  
1041

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 2 of 2

**Sediment Log**  
Version 1.2, 1/20/16

Location ID: ED - 00.17-SLO1 Interval: 0.75 ft to 4 ft

Client: CE/ARCONIC Layer: 2A Gap: 0 ft

Site Name: ELLIOTT DITCH Sediment Color: 1042 5/3

Project Name: 172-367 2nd Sediment Color: 2.54 3/1

Task #: 0006 Sediment Color: 2.54 3/1

Log Date: 02/12/18

**Lab Data**

Duplicate?  Grab?  Composite?

Meix:  Sediment  Soil  Air  Water

# of Containers: 3

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: PMM / MWB

Data Entry By:  Same as above

**Texture**

USDA Texture: SANDY LOAM

USCS Texture: SM

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other: None

Shells?  Plant Fragments?

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: 2.54 5/2

USDA Texture: GRAVEL

**Notes**

Tilt?  Lacustrine?  Sand/gravel bed?

Internal Remarks: 02/12/18  
1041

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

SOIL  
**Sediment Data Sheet**

②

Project Name: ELLIOTT DITCH  
 Project Number: 172-367-0006  
 Field Location ID: ED-00.55-SLO4  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: DMH/MWB  
 Cored Date: 02/07/13 1130-1140  
 Described By: DMH/MWB  
 Described Date: 02/13/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
1'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 0.5'	0.42	83%
0.5' - 1'	0.38	75%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 1

## Sediment Log

Version 1.2, 1/20/16

Location ID: EP-00-65-SLO1 Interval: 0 ft to 1 ft

Client: CEC/ARWNIC Layer: A Gap: 0.2 ft

Site Name: ELLIOTT DITCH Sediment Color: 5Y 4/2 2nd Sediment Color: 2.5Y 4/5

Project Name: 172-367 Sediment Color: 5Y 4/2

Task #: 6006 Sediment Color: 5Y 4/2

Log Date: 02/13/18 Sediment Color: 5Y 4/2

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: SILTY LOAM

USCS Texture: MH

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_

Structure: \_\_\_\_\_

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Sulfur  Other DONE

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: \_\_\_\_\_

USDA Texture: \_\_\_\_\_

**Field Personnel**

Logged By: DMM / MWB

Date Entry By:  Same as above

**Sample Remarks**

\* 0.5 - 1, stained

**Internal Remarks**

02/67/18  
1130 - 1140

**Notes**

Tilt?  Lacustrine?  Sand/gravel bed?

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

SOIL

# Sediment Data Sheet

①

Project Name: ELLIOTT DITCH  
 Project Number: 172-367-0006  
 Field Location ID: ED-00.55-5402  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: MWB/DMM  
 Cored Date: 02/07/13 1308 - 13.16  
 Described By: DMM  
 Described Date: 02/13/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 0.5'	0.42	83%
0.5 - 1'	0.46	92%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 1

## Sediment Log

Version 1.2, 1/2016

Client: CEC/ARLONIC Location ID: ED-0055-SL02 Interval: 0 ft to    ft

Site Name: ELLIOTT DITCH Layer: A Gap: 0.12 ft

Project Name: 172-367 Sediment Color: 2.5Y 3/1 2nd Sediment Color: 2.5Y 2.5/1

Task #: 0006 Sediment Color: 2.5Y 3/1 2nd Sediment Color: 2.5Y 2.5/1

Log Date: 02/13/18 Color: 2.5Y 3/1

**Lab Date**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: SILTY LOAM

USCS Texture: MH

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:   

Structure:   

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90%

Odor?  Petrochemical  Slight  Sulfur  Moderate  Other NONE  Strong

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:   

USDA Texture:

**Field Personnel**

Logged By: DAM/MWB

Date Entry By:  Same as above

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

**Sample Remarks**

\* Dark/ Stained

**Internal Remarks**

02/02/18  
1308-1316

**Figure 3.** Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil

# Sediment Data Sheet

②

Project Name: ELLIOTT DITCH  
 Project Number: 172-367.0006  
 Field Location ID: ED-01-24-SLO4  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting (ft):

Cored By: MWB/DMM  
 Cored Date: 02/07/13 1320 - 1330  
 Described By: DMM/MWB  
 Described Date: 02/13/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
1.5'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 0.5'	0.42'	83%
0.5 - 1'	0.42'	83%
1' - 1.5'	0.46	92%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 2

**Soil Log** Version 1.2, 1/20/16

Client: CE/ARCONIC Location ID: ED-01-24-SLO4 Interval: 0 ft to 1 ft

Site Name: ELLIOTT DITCH Horizon: 1A Gap: 0-16 ft

Project Name: 172-367 Soil Color: 2.5Y 3/2 2nd Soil Color:           

Task #: 0006 USDA Texture: SILTY LOAM Structure Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Log Date: 02/13/17 USCS Texture: MH Grade: Weak  Moderate  Strong

**Lab Data**

Duplicates?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water

# of Containers: 4 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: DAM MWB Date Entry By:  Same as above  Other:           

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many  Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Rocks?  <15%  15-35%  35-60%  60-90%  >90%  Shells?  Plant Fragments?  Wood % 0 %

Odor?  Petrochemical  Sulfur  Other PODE  Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  Color           

**Notes**

TIM?  Lacustrine?  Sand/gravel bed?            

**Internal Remarks**

           02/07/18 1300-1330

A

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



Page 2 of 2

**Soil Log**  
Version 1.2, 1/20/16

Client: CEC/ARCONIC Location ID: ED-01-24-SL04 Interval: 1 ft to 1.5 ft

Site Name: ELLIOTT DITCH Horizon: 2A Gap: 0.04 ft

Project Name: 172-367 Soil Color: 2.5Y 4/3 2nd Soil Color:           

Task #: 0006 Log Date: 02/13/18

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: SANDY EDAM

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:           

Grade:  Weak  Moderate  Strong

**Field Personnel**

Logged By: DMM/MW

Date Entry By:  Same as above

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  90%

Odor?  Petrochemical  Sulfur  Other NOTE

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:            USDA Texture:           

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Sample Remarks: \* W/GRAVEL

Internal Remarks: 02/07/18  
1520-1330

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Sci  
**Sediment Data Sheet**

③

Project Name: ELLIOTT DITCH  
 Project Number: 172-367-0006  
 Field Location ID: ED-01.24-SLO5  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: DMM/MWB  
 Cored Date: 02/07/12  
 Described By: ~~DMM~~ DMM/MWB 1305-1356  
 Described Date: 02/13/12

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
1.5'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 0.5	0.42'	83%
0.5 - 1'	0.31'	62%
1' - 1.5'	0.46'	92%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

**Client:** CEC/KEWONIC  
**Site Name:** ELLIOT DITCH  
**Project Name:** 172-367  
**Task #:** 0006  
**Log Date:** 02/13/19

**Soil Log**  
Version 1.2, 1/20/16

**Location ID:** ED-01.24-SL05  
**Interval:** 0 ft to 1.5 ft

**Page** 4 **of** 4

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 3

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**USDA Texture:** SILTY LOAM

**USCS Texture:** MH

**Plasticity:** Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Soil Color:** 2.5Y 3/2

**2nd Soil Color:** —

**Horizon:** A

**Gap:** 0-31 ft

**Type:**  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_

**Structure:** \_\_\_\_\_

**Grade:**  Weak  Moderate  Strong

**Rocks?**  Few  Common  Many

**Rocks?**  <15%  15-35%  35-60%  60-90%  90-100%

**Other Characteristics:**  Very Fine  Fine  Medium  Coarse  Very Coarse

Fine Gravel  Medium Gravel  Coarse Gravel  Cobbles

**Wood?**  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

**Wood %:** 0 %

**Odor?**  Petrochemical  Sulfur  Other: \_\_\_\_\_

**Notes:**  Tilt?  Lacustrine?  Sand/gravel bed?

**Field Personnel:** Logged By: DMM/MWB  
Data Entry By: Same as above

**Internal Remarks:** 02/02/18  
1905-1356

**Sample Remarks:** \_\_\_\_\_

# Sediment Data Sheet

(2)

Project Name: ELLIOTT DITCH  
 Project Number: 172-367-0006  
 Field Location ID: ED-01.24-SID6  
 Core Type:  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: DMM/MWB  
 Cored Date: 02/02/18 1410 - 1420  
 Described By: DMM  
 Described Date: 02/13/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-0.5	0.42	83%
0.5-1	0.42	83%
1-1.5	0.5	100%
1.5-2	0.46	92%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Version 1.2 / 1/2016

### Sediment Log

**Client:** CEC/ARCONIC

**Site Name:** ELLIOTT DITCH

**Project Name:** 172-369

**Task #:** 0006

**Log Date:** 02/13/18

**Location ID:** ED-01-24-SL06

**Interval:** 0 ft to 2 ft

**Layer:** A

**Gap:** 0.2 ft

**Lab Data**

Duplicate?

Grab?

Composite?

**Matrix:**

Sediment

Soil

Air

Water

**# of Containers:** 2

**Priority:**

Urgent (1)

Standard (2)

As Able (3)

As Needed (4)

**Texture**

USDA Texture: SILTY LOAM

USCS Texture: MH

**Color**

Sediment Color: 2.5Y 3/2

2nd Sediment Color: -

**Field Personnel**

Logged By: DMM / MWB

Date Entry By: Same as above

**Sample Remarks:** \* plant fragments

**Internal Remarks:** 02/07/18  
1416 - 1420

**Plasticity**

Non-plastic

Slightly Plastic

Moderately Plastic

Very Plastic

**Other Characteristics**

**Rocks?**

<15%

15-35%

35-60%

60-90%

290%

**Rocks?**

Few

Common

Many

**Gravel**

Fine Gravel

Medium Gravel

Coarse Gravel

Cobbles

**Wood?**

Wood %: 0 %

Shells?

Plant Fragments?

**Structure**

**Type**

Granular

Sub-angular Blocky

Angular Blocky

Single Gran

Massive

Other

**Grade**

Weak

Moderate

Strong

**Notes**

Tip?

Lacustrine?

Sand/gravel bed?

**Subsiders?**

<0.05 ft

0.05-0.1 ft

0.1-0.2 ft

0.2-0.5 ft

>0.5 ft

**Color**

USDA Texture

**USDA Texture**

Soil

# Sediment Data Sheet


Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367-0006  
 Field Location ID: ED-00.00-SLO3  
 Core Type: Geo Probe Boring  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: G. Schwartz  
 Cored Date: 6/14/12  
 Described By: GS  
 Described Date: 6/14/12

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0' - 0.9'		100%
0.9 - 1.7'		100%
1.7 - 2.5'		100%
2.5 - 3.4'		100%
3.4 - 4.0		100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



## Soil Log

Version 1.2, 1/20/16

Page 1 of 1

Location ID: ED - 00.00 - SLO3 Interval: 1.0 ft to 0.9 ft

Client: ARCADIS Site Name: Elliot Ditch Project Name: Archived Sample Task #: 172-367 Log Date: 6/14/16

Horizon: 1 Gap:  ft

Soil Color: 2.5 YR 5/2

2nd Soil Color:

Color:

**Texture**

USDA Texture: silt loam

USCS Texture: ML

Plasticity:  Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Structure**

Type:  Scrambled  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other:

Grade:  Weak  
 Moderate  
 Strong

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Field Personnel**

Logged By: GDS

Data Entry By:  Same as above

**Other Characteristics**

Roots?  Few  
 Common  
 Many

Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%

Other?  Pellicular  
 Sulur  
 Other

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood %: 9 %

Shells?  Plant Fragments?

Scale (mm):  <0.05  
 0.05-0.1  
 0.1-0.2  
 0.2-0.5  
 >0.5

Color:

USDA Texture:

**Notes**

Leached?  Semi-gravel?

**Sample Remarks**

**Internal Remarks**

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.





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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.00-SL03 Interval: 1.7 to 2.5

Client: Aronia Site Name: Elliott Ditch Project Name: ADD Sampling Task #: 172-367 Log Date: 6/14/16

Horizon: 1 Gap:    Color:   

Soil Color: 10YR 3/2 2nd Soil Color: 10YR 4/2

**Texture**

USDA Texture: Sandy Clay loam

USCS Texture: MH

Plasticity

Non-plastic	<input type="checkbox"/>
Slightly Plastic	<input checked="" type="checkbox"/>
Moderately Plastic	<input type="checkbox"/>
Very Plastic	<input type="checkbox"/>

**Structure**

Type

Granular	<input type="checkbox"/>
Subangular Blocky	<input checked="" type="checkbox"/>
Angular Blocky	<input type="checkbox"/>
Ring & Grain	<input type="checkbox"/>
Massive	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Grade

Weak	<input type="checkbox"/>
Moderate	<input checked="" type="checkbox"/>
Strong	<input type="checkbox"/>

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix: Sediment  Soil  Air  Water

# of Containers: 1

Priority: Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Other Characteristics**

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Shells?  Flint Fragments?

Sublayers?

Color:    USDA Texture:

**Field Personnel**

Logged By: GDS

Data Entry By:  Same as above

**Notes**

Lacustrine?  Semi-gravel bed?

**Sample Remarks**

**Internal Remarks**

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log** Version 1.2, 1/20/16

Location ID: ED-00.00-SLO3 Interval: 2.5 ft to 3.4 ft

Client: ARONIC Site Name: Full# Data Project Name: ADA Samples Task #: 172-167 Log Date: 6/14/16

Horizon: 1 Gap:

Soil Color: 10YR 5/3 2nd Soil Color:

Color:

**Texture**

USDA Texture: Sandy Clay

USCS Texture: CL

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**

Logged By: ADS

Data Entry By:  Same as above

**Other Characteristics**

Rock?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: ∞

Shell?  Shell Fragments?

Substrate?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:

USDA Texture:

**Notes**

Leachate?  Sand/gravel bed?

TIFF?

**Internal Remarks**

**Sample Remarks**

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00000-SLO3 Interval: 3.4 ft to 4.0 ft

Client: Arctic      Site Name: Elliott Ditch      Horizon: 1      Gap:

Project Name: Arctic Survey      Task #: 172-367      Log Date: 6/14/18

**Lab Data**

Duplicate?       Grab?       Composite?

Matrix:  Sediment       Soil       Air       Water

# of Containers: 1

Priority:  Urgent (1)       Standard (2)       As Able (3)       As Needed (4)

**Color**

1st Soil Color: 10YR 3/4

2nd Soil Color: 10YR 3/2

**Texture**

USDA Texture: Sand & clay loam

USCS Texture: MH

**Structure**

Type:  Subangular Blocky       Angular Blocky       Single Grain       Massive       Other

Grade:  Weak       Moderate       Strong

**Plasticity**

Non-plastic       Slightly Plastic       Moderately Plastic       Very Plastic

**Other Characteristics**

Roots?  Few       Common       Main

Rocks?  < 15%       15-35%       35-60%       60-80%       > 80%

Odor:  Petrochemical       Slight       Moderate       Strong

Wood?  Wood       Black Wood       Burned Wood       Sawdust       Wood Chips       Wood Pulp       Charcoal

Wood %: 0 %

Strat?  Plant Fragments?

Sublayers?  < 0.05 ft       0.05-0.1 ft       0.1-0.2 ft       0.2-0.5 ft       > 0.5 ft

Color:

USCS Texture:

**Field Personnel**

Logged By: ADS

Data Entry By:  Same as above

**Notes**

TIP?       Lacustrine?       Sandstone?

**Sample Remarks**

**Internal Remarks**

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil  
**Sediment Data Sheet**

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.00-SL04  
 Core Type: GeoProbe Boring  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 3.6		
0.0' - 0.9'		90%
0.9 - 1.8		90%
1.8 - 2.7		90%
2.7 - 3.6		90%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

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## Soil Log

Version 1.2, 1/2016

Location ID: ED-00-00-SL04 Interval: 0.0 m to 0.9 m

Client: ARIZONA Project Name: AT Elliott Ditch Task #: 172-567 Log Date: 6/14/16

Horizon: 1 Gap:    in

Soil Color: 2.5YR 4/1 2nd Soil Color: 2.5YR 5/3

Texture: Silty clay loam Structure:   

USDA Texture:    USCS Texture: MH

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 2 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: GDS Data Entry By:  Same as above    

Other Characteristics: Rocks?  Few  Common  Many  Wood?  Wood  Black Wood  Burned Wood  Swirls  Wood Chips  Wood Flk  Charcoal  Wood %: 0 % Shell?  Plant Fragments?  Color:   

USDA Texture:   

Notes:  Lacinime?  Sand/gravel bed?

Internal Remarks:   

Sample Remarks:   

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/2016

Location ID: ED-00-00-SLO4 Interval: 0.9 ft to 1.8 ft

Client: ARCADIS Site Name: Elliott Ditch Project Name: Arch. Sampling Task #: 172-367 Log Date: 6/14/16

Horizon: 1 Gap:      ft

Soil Color: 2.5YR 4/2 2nd Soil Color:     

Color:     

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty Clay

USCS Texture: CL w/sand

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:     

**Structure**

Grade:  Weak  Moderate  Strong

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other

Wood?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood %:      %

Wood?  Wood  Black Wood  Burnt Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:      USDA Texture:     

**Field Personnel**

Logged By: CDS

Data Entry By:  Same as above

Sample Remarks:     

Internal Remarks:     

Notes:  Loose?  Sand/gravel head?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log** Version 1.2, 1/20/16

Location ID: ED-00.00-SL-4 Interval: 1.9 # to 2.7

Client: Arcon Site Name: Elliott Ditch  
 Project Name: ADD. Sampling  
 Task #: 172-367  
 Log Date: 6/14/18

Horizon: 1 Gap:

Soil Color: 2.5YR 3/2 2nd Soil Color:

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: Silty clay  
 USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grath  Massive  Other

Grath:  Weak  Moderate  Strong

**Plasticity**

Non-plastic   
 Slightly Plastic   
 Moderately Plastic   
 Very Plastic

**Field Personnel**

Logged By: GDS  
 Data Entry By:  Same as above

Sample Remarks:   
 Internal Remarks:

**Other Characteristics**

Root?  Few  Common  Many

Rocks?  <15%  15-35%  35-65%  60-95%  >95%

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shale?  Plant Fragments?

Substrate?  0-0.05 m  Color:   
 0.05-0.1 m   
 0.1-0.2 m   
 0.2-0.5 m   
 >0.5 m

USDA Texture:

Notes:  Lachrymifer?  Sand/grain bed?

TMP?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Client: ARCAMIC Location ID: ED-00-00-SLO4 Interval: 2.7 ft to 3.0 ft

Site Name: Elliot Ditch Horizon: 1 Gap:     

Project Name: Arch. Sampling Soil Color: 2.5 YR 3/2 2nd Soil Color:     

Task #: 172-367 Texture: Sandy clay Structure:     

Log Date: 6/16/16 USDA Texture: CH ICS Texture: CH

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: ADS Data Entry By:  Same as above

**Internal Remarks**

**Other Characteristics**

Feet?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:      USDA Texture:     

**Notes**

Lacustrine?  Sand/gravel bed?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



So. 1  
**Sediment Data Sheet**

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.17-SLO2  
 Core Type: GeoProbe boring.  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 0.8'		95%
0.8 - 1.8'		95%
1.8 - 2.8'		95%
2.8 - 3.8'		95%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-17-SLOZ Interval: 0.0 ft to 0.0 ft

Client: ARCADIS Site Name: Elliot Ditch

Project Name: ADB Sampling Task #: 172-367

Log Date: 6/16/18

Horizon: 1 Gap:      ft

Soil Color: 24R 3/2 2nd Soil Color:     

**Texture**

USDA Texture: Silty Loam

USCS Texture: ML

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other     

Grade:  Weak  Moderate  Strong

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**

Logged By: GDJ

Data Entry By:  Same as above      

**Other Characteristics**

Rocks?  Few  Common  Many

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

3 Sublayers?       ft       ft       ft

Color:     

USDA Texture:     

**Notes**

Latent?  Sand/gravel bed?

**Internal Remarks**

**Sample Remarks**

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.





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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.17-SLOZ Interval: 2.8 in to 3.8 in

Client: Arizona      Project Name: Elliott Ditch

Task #: 02-367-0090      Log Date: 6/14/18

Horizon: 1      Gap:

Soil Color: 2.5YR 4/2      2nd Soil Color:

Texture: Sandy clay loam      USCS Texture: MH

Structure:  Granular       Subangular Blocky       Angular Blocky       Single Grain       Massive       Other

Grade:  Weak       Moderate       Strong

Lab Data: Duplicate?       Grab?       Composite?

Matrix:  Sediment       Soil       Air       Water

# of Containers: 1

Priority:  Urgent (1)       Standard (2)       As Able (3)       As Needed (4)

Field Personnel: Logged By: ADS      Data Entry By:  Same as above

Plasticity:  Non-plastic       Slightly Plastic       Moderately Plastic       Very Plastic

Rocks?  Few       Common       Many

Rocks?  ≤5%       15-35%       35-60%       60-90%       ≥90%

Odor?  Petrochemical       Sulfur       Other

Other Characteristics:  Wood?       Black Wood       Burned Wood       Sawdust       Wood Chips       Wood Pulp       Charcoal

Wood?  Wood % 0 %       Shells?  Plant Fragments?

Substrate?  <4 US ft       0.05-0.1 ft       0.1-0.1 ft       0.2-0.3 ft       >0.5 ft

Color:

USDA Texture:

Notes:  Lamination?  Sand/gravel bed?

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.19-SL01  
 Core Type: Geoprobe boring  
 Field Remarks:  
 Northing (N):  
 Easting (E):

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0' - 0.8'		100%
0.8 - 1.5'		100%
1.5 - 1.8'		100%
1.8 - 2.3'		100%
2.3 - 3.5'		100%
3.5 - 4.0		100%

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-19-SLO1 Interval: 0-0 in to 1.0 ft

Client: ARCADIS Project Name: Elliott Ditch Task #: 077-362 Log Date: 6/14/18

Site Name: Addressed Sampling

Horizon: 1 Gap:

Soil Color: 2.5YR 3/2 2nd Soil Color: 10YR 5/3

Texture: Silty clay loam Structure: Weak

ASDA Texture: MH LISCS Texture: w/ sand

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Air  Water  \$ of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: GDS Date Entry By: Same as above

Other Characteristics: Roots?  Few  Continuous  Heavy  Rock?  <1.5%  1.5-3%  3.5-8%  8-15%  15-35%  35-80%  80-90%  90%  Wood?  Wood  Black Wood  Blamed Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood %: 75 %

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Vary Plastic

Color?  Petrochemical  Sulfur  Other  Slight  Moderate  Strong

Notes:  Lacturine?  Sand/gravel bound?  7/8"  USDA Texture

Sample Remarks:  Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/18

Location ID: ED-M-19-SLO1 Interval: 0.6 ft to 1.5 ft

Horizon: 1 Gap:      ft

Soil Color: 2.5YR 3/2 2nd Soil Color: 10YR 4/4

Texture: Sandy Clay Structure: CH

USDA Texture:      USCS Texture:     

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 2 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: GDS Data Entry By:  Same as above      

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Other Characteristics: Rocks?  Few  Common  Many  Petrochemicals:  Sulfur  Other  Odor:  Slight  Moderate  Strong  Notes:     

Internal Remarks: Well graded

USDA Texture:  Very Fine  Fine  Medium  Coarse  Very Coarse  Fine Gravel  Medium Gravel  Coarse Gravel  Cobbles  Shells?  Plant Fragments?  Wood?  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood %: 0 %

Subsiders?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  USDA Texture:     

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-10.1A-SLO1 Interval: 1.5 ft to 1.8 ft

Client: ARAWAC Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-3107 Log Date: 6/14/18

Horizon: 1 Gap:      ft

Soil Color: 2.5YR 3/1 2nd Soil Color: N/A

Texture: Silty Clay loam Structure: N/A

USDA Texture:      JSCS Texture:     

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1 Priority:  Urgent (1)  Standard (3)  As Able (3)  As Needed (4)

Plasticity: Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic  06/14/18

Field Personnel: Logged By: GDJ Data Entry By:  Same as above  Other:     

Other Characteristics:  Very Fine  Fine  Medium  Coarse  Very Coarse  Fine Gravel  Medium Gravel  Coarse Gravel  Cobble  Wood?  Wood % 0  Plant Fragments?  Shells?  Sublayers?  Color:     

Rocks?  Few  Common  Many  Petrochemical  Sulfur  Other  Notes:  Leachate?  Sand/gravel bed?   TWP  Locusts?  Sand/gravel bed?  JSDA Texture:     

Odor?  Slight  Moderate  Strong

Internal Remarks:     

Sample Remarks:     

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-10,19-601 Interval: 1.8 ft to 2.3 ft

Client: Arconic      Project Name: Elliott Ditch

Task #: 172-367-0109      Log Date: 6/14/18

Horizon: 1      Gap:      ft

Soil Color: 10YR 7/3      2nd Soil Color:     

**Texture**

USDA Texture: Sandy Clay Loam

USCS Texture: ML

**Structure**

Type:  Granular     Subangular Blocky     Angular Blocky     Single Grain     Massive     Other

Grade:  Weak     Moderate     Strong

**Lab Data**

Duplicate?     Grab?     Composite?     Matrix: MSD

Sediment     Soil     Air     Water

# of Containers: 7

Priority:  Urgent (1)     Standard (2)     As Able (3)     As Needed (4)

**Plasticity**

Non-plastic     Slightly Plastic     Moderately Plastic     Very Plastic

**Field Personnel**

Logged By: GDS

Date Entry By:  Same as above         

**Other Characteristics**

Rock?  Few     Common     Many

Rock?  <1%     15-35%     35-60%     60-90%     >90%

Color?  Petrochemical     Sulfur     Other

Wood?  Very Fine     Fine     Medium     Coarse     Very Coarse

Wood?  Wood     Black Wood     Burned Wood     Sawdust     Wood Chips     Wood Pulp     Charcoal

Wood %: 0 %

Shells?     Phloem Fragments?     Shrublayers?     Color:     

Shrublayers?  <0.05 ft     0.05-0.1 ft     0.1-0.2 ft     0.2-0.5 ft     >0.5 ft

USDA Texture:     

**Notes**

TIP?     Locust tree?     Sand/gravel bed?         

**Sample Remarks**

**Internal Remarks**

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-0019-SL01-2-2-3 Interval: 2.0 to 2.8 ft 2.3 to 3.5

Client: Arcene Elliott Ditch

Site Name: Arcene Elliott Ditch

Project Name: ADD: Sampling

Task #: 172-362

Log Date: 6/14/18

Horizon: 1 Gap:   

Soil Color: 10 YR 7/3 2nd Soil Color:   

Texture: Sandy loam Structure:   

USDA Texture:    USCS Texture: HL

Lab Data

Duplicate?  Grab?  Composite?

Matrix:  Sediment   Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel

Logged By: GDS

Data Entry By:  Same as above    

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Color?  Petrochemical  Slight  Moderate  Strong

Other Characteristics

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Strip  Charcoal

Wood %   

Shells?  Plant Fragments?

Substrate?                

USDA Texture:   

Notes:                

Sample Remarks:   

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

**TETRA TECH**

**Soil Log** Version 1.2, 1/20/16

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---

Client: Arzeneic

Site Name: Elliott Ditch

Project Name: Arzeneic Samples

Task #: 172-367

Log Date: 6/14/16

Location ID: ED-0019-SLO1

Interval: 3.5 ft to 4.0

Horizon: 1

Gap:  ft

---

Soil Color: 10YR 4/2

2nd Soil Color:

Color:

Structure

Type	Granular	<input checked="" type="checkbox"/>
	Subangular Blocky	<input type="checkbox"/>
	Angular Blocky	<input type="checkbox"/>
	Single Grain	<input type="checkbox"/>
	Massive	<input checked="" type="checkbox"/>
	Other	<input type="checkbox"/>

Grade

Weak	<input checked="" type="checkbox"/>
Moderate	<input type="checkbox"/>
Strong	<input type="checkbox"/>

---

Texture

USDA Texture: Sandy Clay loam

USCS Texture: MH

Plasticity

Non-plastic	<input type="checkbox"/>
Slightly Plastic	<input type="checkbox"/>
Moderately Plastic	<input checked="" type="checkbox"/>
Very Plastic	<input type="checkbox"/>

Other Characteristics

Rock?  Few  Common  Mafic

Rock?  <15%  15-35%  35-60%  60-80%  >80%

Odor?  Petrochemical  Sulfur  Other

---

Lab Data

Duplicate?

Grab?

Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel

Logged By: GDS

Data Entry By:  Same as above

Notes

Tip?  Lustrous?  Sand/gravel bed?

---

Sample Remarks

Internal Remarks

USDA Texture

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil  
**Sediment Data Sheet**

Project Name: Elliott Ditch Additional Sample  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.21-SL01  
 Core Type: Geoprobe Boring  
 Field Remarks:  
 Northing (N):  
 Easting (E):

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 3.8		75%

0.0 - 1.0  
 1.0 - 2.0  
 2.0 - 2.9  
 2.9 - 3.8

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_

Page 1 of 1

## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-21-SLO Interval: 0.0 to 1.0 ft

Client: ARCADIS      Project Name: Elliott Ditch

Site Name: ARCADIS      Task #: 172-367-0009

Project Name: ARCADIS      Log Date: 6/14/16

Task #: 172-367-0009

Log Date: 6/14/16

Horizon: 1      Gap:         Color:   

Soil Color: 10YR 3/2      2nd Soil Color:   

**Lab Data**

Duplicate?       Grab?       Composite?

Matrix:  Sediment       Soil       Air       Water

# of Containers: 1

Priority:  Urgent (1)       Standard (2)       As Able (3)       As Needed (4)

**Texture**

USDA Texture: Silty loam

USCS Texture: ML

**Structure**

Type:  Granular       Subangular Blocky       Angular Blocky       Single Grain       Massive       Other

Grade:  Weak       Moderate       Strong

**Other Characteristics**

Rocks?  Few       Common       Many

Rec. 4.3?  1-15%       15-35%       35-60%       60-90%       90%

Occur?  Petrochemical       Slight       Moderate       Strong

Gull?       Other

Wood?  Wood       Black Wood       Burner/Wood       Sawdust       Wood Chips       Wood Pulp       Charcoal

Wood %:    %

Similar?  Plant Fragments?       Color:   

Suzanyang?  0.05 ft       0.1-0.2 ft       0.2-0.5 ft       0.5 ft

USDA Texture:

**Plasticity**

Non-plastic       Slightly Plastic       Moderately Plastic       Very Plastic

**Field Personnel**

Logged By: ADG

Date Entry By: Same as above

**Internal Remarks**

Sample Remarks:   

Notes:  Limestone?  Sand/gravel bed?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

FD

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## Soil Log

Version 1.2, 1/20/16

Client: ARCONE  
 Site Name: Elliott Ditch  
 Project Name: ADD Sampling  
 Task #: 172-367 - 0009  
 Log Date: 6/14/18

Location ID: ED-00.21-SLO1 Interval: 1.0 ft to 2.0 ft  
 Horizon: 7 Gap:      ft

Soil Color: 2.5Y4/3 2nd Soil Color:     

**Texture**  
 USDA Texture: Sandy clay loam  
 USCS Texture: MH

**Structure**  
 Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:       
 Grade:  Weak  Moderate  Strong

**Lab Data**  
 Duplicate?  Grab?  Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 2  
 Priority:  Urgent (1)  Standard (?)  As Able (3)  As Needed (4)

**Field Personnel**  
 Logged By: GS  
 Date Entry By:  Same as above      

**Plasticity**  
 Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**  
 Wood?  Wood?  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal   
 Shales?  Plant Fragments?   
 Substratum?       ft       ft       ft       ft  
 USDA Texture:     

**Color**  
 Munsell:  Very Fine  Fine  Medium  Coarse  Very Coarse  
 Hue:      Value:      Chroma:       
 Petrographic:  Slight  Moderate  Strong  
 Sulfur:  Other:

**Notes**  
 TWP  Lacustrine?  Sand/gravel bed?

**Internal Remarks**  
    

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/23/16

Location ID: ED-00-11-SLO Interval: 7.0 ft to 2.9 ft

Client: Arizona

Site Name: Elliott Ditch

Project Name: Art Sampling

Task #: 172-367

Log Date: 4/11/16

Horizon: 1 Gap:      ft

Soil Color: 2.5YR 2.5/1 2nd Soil Color:     

Texture: Silty loam Structure:     

USDA Texture: ML Type: 2.5YR 2.5/1

Lab Data

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air   
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

Plasticity:  Non-plastic  Slightly Plastic   
 Moderately Plastic  Very Plastic

Other Characteristics

Recess?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Color?  Petrochemical  Slight  Moderate  Strong

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood % 0 %  Flard/Fragments?

Substrate?  0-0.5 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Notes

TIP?  Lacustrine?  Sand/gravel bed?

Field Personnel

Logged By: gds

Date Entry By: Same as above

Sample Remarks

Internal Remarks

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.





Soil  
**Sediment Data Sheet**

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.23-SL01  
 Core Type: GeoTube Boring  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 3.9		98%
0.0 - 0.7		
0.7 - 1.2		
1.2 - 2.0		
2.0 - 2.9		
2.9 - 3.9		

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-23 - SLO1 Interval: 0.0 ft to 0.7 ft

Client: ARCADIS      Project Name: Elliott Ditch      Task #: 172-367-0009      Log Date: 6/14/18

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-367-0009

Log Date: 6/14/18

Horizon: 1      Gap:

Soil Color: 7.5YR 3/2      2nd Soil Color:

Color:

**Lab Data**

Duplicate?       Grab?       Composite?

Matrix:  Sediment       Soil       Air       Water

# of Containers: 1

Priority:  Urgent (1)       Standard (2)       As Able (3)       As Needed (4)

**Texture**

USDA Texture: Silty Clay loam

JSCS Texture: CH

Type:  Granular       Subangular Blocky       Angular Blocky       Single Grain       Massive       Other

Grade:  Weak       Moderate       Strong

**Plasticity**

Non-plastic       Slightly Plastic       Moderately Plastic       Very Plastic

**Other Characteristics**

Wood?  Wood       Black Wood       Burned Wood       Sawdust       Wood Chips       Wood Pulp       Charcoal

Plant Fragments?

Shells?

Sublayers?

Color:

JSDA Texture:

**Field Personnel**

Logged By: GOS

Date Entry By:  Same as above

**Notes**

TR?       Lacustrine?       Sand/gravel bed?

**Sample Remarks**

**Internal Remarks**

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log** Version 1.2, 1/20/16

Client: Arson's Location ID: ED-00-23-3201 Interval: 0.7 ft to 1.2 ft

Site Name: Elliott Ditch 1 Horizon: 10YR 4/3 gap: 10YR 5/6 03 061418

Project Name: Additional Sampling Soil Color: 10YR 4/3 2nd Soil Color: 10YR 5/6

Task #: 178-367 area Texture: Silty clay Structure: CH

Log Date: 6/14/18 # of Containers: 2

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

Priority:  Urgent (1)  Standard (2)  As Aft. (3)  As Needed (4)

**Plasticity**

Non-plastic  Slightly plastic  Moderately plastic  Very plastic

**Field Personnel**

Logged By: GDJ

Data Entry By:  Same as above

**Internal Remarks**

**USDA Texture**

Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

**USCS Texture**

CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Peaks?  Few  Common  Many

Rock?  1-15%  15-35%  35-50%  50-70%  70-90%

Other Characteristics:  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shale?  Plant Fragments?

Sublayers?  0-0.5 ft  0.5-1 ft  1-0.2 ft  2-0.5 ft  2-6 ft

Color:

USDA Texture:

**Notes**

Lactating?  Sand/gravel bed?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page \_\_\_\_\_ of \_\_\_\_\_

## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.23-S101 Interval: 1.2 ft to 2.0 ft

Client: Arconic Project Name: Bellco# Ditch Task #: 172-367 Log Date: 6/14/16

Horizon: 1 Gap:

Soil Color: 10YR 4/3 2nd Soil Color: 10YR 5/6

Texture: Silty Clay USCS Texture: CL

Structure:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massine  Other

Grade:  Weak  Moderate  Strong

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water

# of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: GDJ Date Entry By:  Same as above

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Other Characteristics: Roots?  Few  Common  Many  1-15%  15-35%  35-80%  80-90%  90%

Soils?  Plant Fragments?  Wood?  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pile  Charcoal

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:  USDA Texture:

Notes:  Lacustrine?  Sand/gravel bed?

Tri?  Internal Remarks:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.23-SLO1 Interval: 2 to 29

Client: Arctic Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 176-767-0209 Log Date: 6/14/18

Horizon: 1 Gap:

Soil Factor: 10yr 2/2 Color: 7.5yr 5/6

**Lab Data**

Duplicate?  Grmb?  Composite?

Matrix:  Sediment   Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Clay

I/SCS Texture: CH

**Structure**

Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:

Grades: Weak  Moderate  Strong

**Other Characteristics**

Rocky?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Shell Fragments?

Sublayers?

Color:

USDA Texture:

**Field Personnel**

Logged By: GDJ

Data Entry By:  Same as above

**Sample Remarks**

rebox feature

**Internal Remarks**

**Notes**

TRP?  Lacustrine?  Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16 3.9

Location ID: ED-00-23-SL01 Interval: 2.9 ft to 4.0 ft

Client: ACCORIC

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-362-0009

Log Date: 6/14/16

Horizon: 1 Gap:      ft

Soil Color: 10YR 2/2 2nd Soil Color: 10YR 6/16

Texture: Clay Structure: CH

USDA Texture:      USCS Texture:     

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Lab Data: Duplicate?  Grab?  Composte?  Matrix:  Sediment  Soil  Air  Water

# of Containers: 2 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: CDS Date Entry By:  Same as above

Other Characteristics: Rocks?  Few  Common  Many  Wood?  Wood %: 0 %  Plant Fragments?  Substrate?  Lignite?  Sand/gravel bed?

Notes:  Lignite?  Sand/gravel bed?

USDA Texture:     

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.29-SL01  
 Core Type: Geo Probe Boring  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0		93.6

- 0.0 - 0.7
- 0.7 - 1.7
- 1.7 - 2.7
- 2.7 - 3.7

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-27-SLO1 Interval: 0.0 ft to 1.0 ft

Client: ARCIC Horizon: 1 Gap:

Site Name: Elliott Ditch Soil Color:

Project Name: Additional Sampling 2nd Soil Color:

Task #: 172-367 Color: 10YR 4/2

Log Date: 10/14/16

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty loam

USCS Texture: ML

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Structure:  Weak  Moderate  Strong

**Other Characteristics**

Access?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other

Plasticity:  Non-Plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp/Charcoal

Stems?  Plant Fragments?

Substrata?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:  USDA Texture:

**Field Personnel**

Logged By: GDS

Data Entry By:  Same as above

Sample Remarks:

Internal Remarks:

Notes:  Lamination?  Sand/gravel head?

7#?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Client: Arceuth      Location ID: ED-00.27-SL01      Interval: 1.0 m to 1.9 m

Site Name: Elliott Ditch      Horizon: Y      Gap:    m

Project Name: ADD. Sampling      Soil Color: 2.5YR<sup>3</sup>/1      2nd Soil Color:   

Task #: 172-367      Log Date: 6/14/18

**Lab Data**

Duplicate?       Grab?       Composite?

Matrix:  Sediment       Soil       Air       Water

# of Containers: 1

Priority:  Urgent (1)       Standard (2)       As Able (3)       As Needed (4)

**Texture**

(USDA) Texture: Silty clay loam

USCS Texture: MH

Type:  Granular       Subangular Blocky       Angular Blocky       Single Grain       Massive       Other

Structure:  Weak       Moderate       Strong

**Other Characteristics**

Roots?  Few       Common       Many

Rocks?  <15%       15-35%       35-60%       60-80%       >80%

Plasticity:  Non-plastic       Slightly Plastic       Moderately Plastic       Very Plastic

Field Personnel: Logged By: GDS      Data Entry By:  Same as above

Internal Remarks:   

Sample Remarks:   

Notes:  Tip?       Lacustrine?       Sand/gravel bed?

**Soil Color**

1-R      2-B      3-YR      4-BL      5-10      11-13      14-17      18-2.5      2.5-10      10-14      14-17      17-10      17-14      17-17      17-2.5      2.5-14      14-17      17-10      17-14      17-17      17-2.5

Moisture:  Very Fine       Fine       Medium       Clayey       Very Coarse

Wood:  Wood       Black Wood       Burned Wood       Sawdust       Wood Chips       Wood Pulp       Charcoal

Stipules?       Plant Fragments?

Substrate?  <0.05 mm       0.05-0.1 mm       0.1-0.2 mm       0.2-0.5 mm       >0.5 mm

Color:         USDA Texture:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log** Version 1.2, 1/20/16

Location ID: ED-00.17-SL01 Interval: 1.9 # to 2.8 #

Client: Alfred Aronic Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-367 Log Date: 6/14/16

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: GDS Data Entry By:  Same as above

**Texture**

USDA Texture: Silty Loam USCS Texture: ML

Horizon: ( Gap:          #

Soil Color: 10YR 3/1 2nd Soil Color:          Color:         

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Masses  Other         

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Rocks?  Few (Common Matrix)  Very Fine  Fine  Medium  Coarse  Very Coarse

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Odor?  Pseudochemical  Sulfur  Other         

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Substrate?           Color:         

Notes:  Leachate?  Sand/gravel bed?

Internal Remarks:         

Sample Remarks:         

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-0077-SL01 Interval: 2.8 ft to 3.7 ft

Client: Aracuc  
 Site Name: Elliott Ditch  
 Project Name: Additional Samples  
 Task #: 172-367  
 Log Date: 6/14/18

Horizon: 1 Gap:      ft

Soil Color: 2.5YR3/1 2nd Soil Color:     

**Texture**  
 USDA Texture: Clay  
 USCS Texture: CH

**Structure**  
 Grade:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other       
 Weak  Moderate  Strong

**Lab Data**  
 Duplicate?  Grab?  Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 1  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Plasticity**  
 Non-Plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**  
 Logged By: GDJ  
 Data Entry By:  Same as above      

**Other Characteristics**  
 Rocks?  Few  Common  Many  
 Petrochemicals:  Slight  Moderate  Strong  
 Odor:  Slight  Moderate  Strong  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood %: 0 %  
 Sphalls?  Plant Fragments?   
 Sublayers?  0.05 ft  0.1 ft  0.2 ft  0.3 ft  0.5 ft  
 Cellulose?  Sand/gravel bed?

**Notes**  
 TNP?  Lachryms?  Sand/gravel bed?

**Internal Remarks**  
 Sample Remarks:       
 Internal Remarks:     

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.29-SL01  
 Core Type: Geo Probe Boring  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0		93.6

- 0.0 - 0.7
- 0.7 - 1.7
- 1.7 - 2.7
- 2.7 - 3.7

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-29-SLO1 Interval: 0.0 ft to 0.75 0.7 6/14/16

Client: Argonne Project Name: Elliott Ditch Task #: 172-567 Log Date: 6/14/16

Site Name: Elliott Ditch

Project Name: Elliott Ditch

Task #: 172-567

Log Date: 6/14/16

Horizons: 1 ft Gap:      ft

Soil Color: 2.5Y 3/7 2nd Soil Color:     

Color:     

Texture: silty loam Structure:     

USDA Texture:      USCS Texture: ML

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: GDS Data Entry By: Same as above

Internal Remarks:     

Sample Remarks:     

Notes:  Limestone?  Sand/gravel bed?  70%?

Other Characteristics: Rocks?  New  Common  Many  Many  Many  Many

Rocks?  <15%  15-35%  35-60%  60-90%  90-100%

Odor?  Petrochemical  Sulfid  Other

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 % Plant Fragments?

Substrate?  0-0.5 ft  0.5-1 ft  1-2 ft  2-4.5 ft  >4.5 ft

USDA Texture:     

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

FD

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## Soil Log

Version 1.2, 1/20/16

Client: ARCORNIC  
 Site Name: ELLIOTT DITCH  
 Project Name: ARC SANDS  
 Task #: 172-367  
 Log Date: 6/14/16

Location ID: ED-0029-S101 Interval: 0.7 ft to 1.7 ft

Horizon: 1 Gap:      ft

Color: 10YR 4/2  
 2nd Soil Color:     

**Texture**  
 USDA Texture: silty clay loam  
 USCS Texture: MH

**Structure**  
 Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other  
 Grade:  Weak  Moderate  Strong

**Lab Data**  
 Duplicates?  Grab?  Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 2  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**  
 Logged By: GDS  
 Data Entry By:  Same as above

**Internal Remarks**  
Redox feature

**Other Characteristics**  
 Root?  Few  Common  Many  
 Rock?  <15%  15-35%  35-60%  60-80%  >80%  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pile  Charcoal  
 Wood %: 0 %  
 Shim?  Plant Fragments?   
 Sublyers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color:       
 USDA Texture:     

**Notes**  
 Laccustrine?  Saturated?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Field Duplicate

Page 1 of 1

**Soil Log** Version 1.2, 1/20/18

Client: ARCORUS Location ID: ED-00-29-S001 Interval: 1.7 m to 2.7 m

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: ADL Sample Log Soil Color: 5YR3/1 2nd Soil Color:

Task #: 122-367-0001 Color:

Log Date: 6/14/18

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty loam

USGS Texture: ML

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massan's  Other:

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Probes:  <15%  15-35%  35-60%  60-90%  >90%

Field Personnel: Logged By: ADS Data Entry By:  Same as above

Wood?  Wood?  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %:  %

Sheets?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:

USDA Texture:

**Notes**

7/8?  Lenticular?  Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00029-SL01 Interval: 2.7 ft to 3.7 ft

Client: Prozac Site Name: Elliott Ditch Project Name: ADD - Sewage Task #: 172-367 - 2009 Log Date: 6/14/16

Horizon: 1 Gap:

Soil Color: 5Y 2.5/1 2nd Soil Color:

Texture: Clay Structure:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

USDA Texture:  Very Fine  Fine  Medium  Coarse  Very Coarse

USCS Texture: CH

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: GDS Data Entry By:  Same as above

Other Characteristics:  Root?  Few  Common  Many  Wood?  Wood  Black Wood  Burned Wood  Sphered  Wood Chips  Wood Pulp  Charcoal  Wood % 0 %  Shell?  Shell Fragments?  Color:

Rock?  <15%  15-30%  35-50%  50-75%  75-90%  Silt?  Petrochemical  Sulfur  Other  Slightly  Moderate  Strong

Notes:  Lacustrine?  Sand/gravel bed?   TMP  USDA Texture:

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367-0006  
 Field Location ID: ED-00.31-SL01  
 Core Type: Geo Probe Boring  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 3.8		95%
0.0 - 1.0		
1.0 - 2.0		
2.0 - 2.8		
2.8 - 3.8		

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_

**TETRA TECH**

Client: ARCADIS

Site Name: Elliott Ditch

Project Name: Rehabilitate Sewerage

Task #: 172-767

Log Date: 6/14/16

Location ID: ED-00-31-SLO1

Interval: 0.0 ft to 1.0 ft

Horizon: 1

Gap:

Page 1 of 1

**Soil Log** Version 1.2, 12/01/16

**Lab Data**

Duplicate?

Grab?

Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: Sandy clay loam

USCS Texture: CH

**Plasticity**

<input type="checkbox"/>	Non-plastic
<input type="checkbox"/>	Slightly Plastic
<input checked="" type="checkbox"/>	Moderately Plastic
<input type="checkbox"/>	Very Plastic

**Color**

2mm Soil Color: 10YR 3/3

**Texture**

<input checked="" type="checkbox"/>	Granular
<input type="checkbox"/>	Subangular Blocky
<input type="checkbox"/>	Angular Blocky
<input type="checkbox"/>	Single Grain
<input type="checkbox"/>	Mosaic
<input type="checkbox"/>	Other

**Structure**

<input type="checkbox"/>	Weak
<input type="checkbox"/>	Moderate
<input type="checkbox"/>	Strong

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks:  <15%  14-35%  35-60%  60-90%  >90%

Other?  Petrochemical  Sulf.  Other

Wood?  Wood?  Black Wood  Bleached Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Shales?  Shell Fragments?

Supplies?

USDA Texture:

**Field Personnel**

Logged By: LOS

Data Entry By:  Same as above

**Notes**

WIP?  Lacustrine?  Sand/gravel bank?

**Internal Remarks**

Sample Remarks:

Internal Remarks:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log**  
Version 1.2, 1/20/16

Location ID: ED-0031-5L01 Interval: 1.0 ft to 2.0 ft

Client: ARCORE Site Name: ELLIOTT DITCH Project Name: ADDITIONAL SAMPLING Task #: 177-367 Log Date: 6/14/18

Horizon: 1 Gap:

Soil Color: 10YR 4/4 2nd Soil Color:

Texture: Sandy Clay loam Structure:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massiva  Other:

USDA Texture:  Very Fine  Fine  Medium  Coarse  Very Coarse  Very Fine  Fine  Medium  Coarse  Very Coarse  Very Fine  Fine  Medium  Coarse  Very Coarse

USCS Texture: ML

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 2 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: COS Data Entry By:  Same as above

Other Characteristics: Roots?  Few  Common  Many  Rocker?  <15%  15-35%  35-60%  60-90%  90%  Color:  Petrochemical  Sulfur  Other:  Notes:  Lacin?  Semi-gravel bed?

Stability:  Plant Fragment?  Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood %

Subsiders:  <0.05 R  0.05-0.1 R  0.1-0.2 R  0.2-0.3 R  >0.3 R  Color:  USDA Texture:

Sample Remarks:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/29/16

Client: ARCOSK  
 Site Name: Elliott Ditch  
 Project Name: Abandoned Sandpits  
 Task #: 172-367  
 Log Date: 6/14/12

Location ID: ED-00.31-SL01 Interval: 2.0 ft to 2.8 ft  
 Horizon: 1 Gap:      ft

Soil Color: 10YR 5/3

Soil Color and Soil Color:

Texture

USDA Texture: Sandy Clay loam

USCS Texture: MH

Lab Data

Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 1  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

Structure

Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other  
 Grade:       
 Weak:   
 Moderate:   
 Strong:

Other Characteristics

Rocks?  Few  
 Common  
 Many  
 Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%  
 Fine Grav?   
 Medium Grav?   
 Coarse Grav?   
 Cobbles?   
 Very Fine:   
 Fine:   
 Medium:   
 Coarse:   
 Very Coarse:   
 Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal  
 Moss?  % 0  
 Shells?  Plant Fragments?   
 Siltlayers?  Color:       
 <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft  
 USDA Texture:

Notes

Lustrous?  Semi-gravel bed?


Field Personnel

Logged By: GOS  
 Data Entry By:  Same as above

Sample Remarks

Internal Remarks

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



**TETRA TECH**

**Soil Log**  
Version 1.2, 10/2016

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Client: ARCADIS

Site Name: Elliott Ditch

Project Name: 172 Additional Sample

Task #: 172-367

Log Date: 6/14/18

Location ID: ED-00-31-SL-01

Interval: 2.8 m to 3.8 m

Horizon: 1

Gap:      m

Soil Color: 10YR 4/2

2nd Soil Color:

---

**Lab Data**

Duplicate?

Grab?

Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: silty clay

USCS Texture: CH

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Structure**

Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Masses  
 Other

Grade:  Weak  
 Moderate  
 Strong

---

**Field Personnel**

Logged By: GDS

Data Entry By: Same as above

**Other Characteristics**

Roots?  Few  
 Common  
 Many

Stones?  <15%  
 15-35%  
 35-80%  
 80-90%  
 >90%

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wood %:     %

Shells?  Shell Fragments?

Coarse?  Slight  
 Moderate  
 Strong

Color:     

Supplies?      ft  
     ft  
     ft  
     ft

**Notes**

Leucostoma?  Sandgrain bed?

---

**Sample Remarks**

**Internal Remarks**

**USDA Texture**

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# S-1 Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.33-SL01  
 Core Type:  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 4.0		100 %

- 0.0 - 0.7
- 0.7 - 1.6
- 1.6 - 2.3
- 2.3 - 3.1
- 3.1 - 4.0

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_

Page \_\_\_\_ of \_\_\_\_

## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.33-SL01 Interval: 0.0 ft to 0.7 ft

Client: Arcevac Site Name: Elliott Ditch

Project Name: Additional Sampling Task #: 172-362 east

Log Date: 6/14/16

Horizon: 1 Gap:      ft

Soil Color: 10YR 3/5 2nd Soil Color: N/A

**Texture**

USDA Texture: Silty clay loam

USCS Texture: CH

**Structure**

Grade: Weak

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

**Other Characteristics**

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood % 0 %

Rocks?  Few  Common  Many

Rock?  <15%  15-35%  35-60%  60-95%  >95%

Color?  Petrological  Slight  Moderate  Strong

Shells?  Plant Fragments?  Color:     

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

USDA Texture:     

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**

Logged By: GDS

Date Entry By:  Same as above      

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Notes**

7MP?  Lacustrine?  Sand/silt/clay band?

**Internal Remarks**

**Sample Remarks**

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

ED-00.33-SL01



**TETRA TECH**

Client: Arcenic

Site Name: Elliott Ditch

Project Name: Additional Sample

Task #: 172-367

Log Date: \_\_\_\_\_

Soil Log Version 1.2/20/16

Location ID: ED-0033-SL01

Interval: 0.7 m to 1.6 m

Horizon: 1

Gap:

Page 1 of 1

**Lab Data**

Duplicate?

Grab?

Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**

USDA Texture: Sandy Clay

USCS Texture: CH

Type:  granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other: \_\_\_\_\_

**Color**

Soil Color: 10YR 4/4

2nd Soil Color: \_\_\_\_\_

**Structure**

Grade:  Weak  
 Moderate  
 Strong

**Field Personnel**

Logged By: GD

Data Entry By:  Same as above

**Plasticity**

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Other Characteristics**

Roots?  None  
 Common  
 Many

Rocks?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%

Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Wool %: 0 %

Shells?  Many Fragments?

Staleness?

Sublayers?  <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft

Color: \_\_\_\_\_

USDA Texture: \_\_\_\_\_


**Notes**

TRP?  Lacustrine?  Same/Gravel Acid?

**Sample Remarks**

Internal Remarks

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



**Soil Log**  
Version 1.2, 1/20/16

Page \_\_\_\_ of \_\_\_\_

Client: \_\_\_\_\_  
 Site Name: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Task #: \_\_\_\_\_  
 Log Date: \_\_\_\_\_

Location ID: ED-00.33-SL01 Interval: 1.6 ft to 2.8 ft  
 Horizontal: 1 Gap: \_\_\_\_\_ ft

**Lab Data**

Duplicates?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Color**

Soil Color: 10YR 4/4 and Soil Color: \_\_\_\_\_

**Texture**

USDA Texture: \_\_\_\_\_  
USOS Texture: CU

Sandy Clayey loamy

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other \_\_\_\_\_

Grade: Weak  Moderate  Strong

**Field Personnel**

Logged By: LDJ  
Data Entry By:  Same as above

**Other Characteristics**

Wood?  Wood  Black Wood  Burn'd Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: \_\_\_\_\_  
USDA Texture: \_\_\_\_\_

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Notes**

Lacustrine?  Sand/silt/clay bed?

**Internal Remarks**

Sample Remarks: \_\_\_\_\_

**Internal Remarks**

Internal Remarks: \_\_\_\_\_

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Client: Arconic Location ID: ED-00-83-SLO Interval: 3.1 ft to 4.0 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Additional Sampling Soil Color: 10YR 3/1 Color:

Task #: 172-367 2nd Soil Color:

Log Date: 6/14/16

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty clay

USCS Texture: CH

Type:  Granular  Subangular blocky  Angular blocky  Single grain  Massive  Other:

Structure:  Weak  Moderate  Strong

**Other Characteristics**

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Stems?  Plant Fragments?

Substrains?

Color:  USDA Texture:

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Other?  Petrochemical  Sulfur  Other

Slight  Moderate  Strong

Notes:  Lachryme?  Sand/gravel bed?

**Field Personnel**

Logged By: GDS

Date Entry By:  Same as above

**Internal Remarks**

Sample Remarks:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log** Version 1.2, 1/20/16

Client: Arctic

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: \_\_\_\_\_

Log Date: \_\_\_\_\_

Location ID: ED-00-33-SLO1

Interval: 2.3 ft to 3.1 ft

Horizon: 1

Gap:

Soil Color: 7.5YR 8/1

2nd Soil Color: 7.5YR 4/2

Texture

USDA Texture: Silty clay loam

USCS Texture: ML-GI micls

Structure

Type: \_\_\_\_\_

Grade: \_\_\_\_\_

Lab Data

Duplicate?

Glab?

Composite?

Matrix:  Sediment  
 Soil  
 Air  
 Water

# of Containers: 2

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

Plasticity

Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

Field Personnel

Logged By: GDJ

Data Entry By:  Same as above

Other Characteristics

Roots?  New  
 Common  
 Many

Roots?  <15%  
 15-35%  
 35-60%  
 60-90%  
 >90%

Odor?  Petrochemical  
 Sulfur  
 Other

Other Characteristics

Woody?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal

Shales?  Plant Fragments?

Sublayers?

Color: \_\_\_\_\_

USDA Texture: \_\_\_\_\_

Notes

Lacustrine?  Sandy/gravel bed?

Sample Remarks

Internal Remarks

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.36-SLO1  
 Core Type: ~~Free Probe~~ boring as Auger  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'	0-1				
4	0-1				
	0-1				
	0-1				

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 0.1		100

~~0.0 - 0.4 as~~  
 0.0 - 0.5  
~~1.0 - 1.8 as~~  
 0.5 - 1.0  
 1.0 - 0.8  
 2.0 - 2.5  
 2.5 - 3.0  
 3.0 - 3.5  
 3.5 - 4.0

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

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**Soil Log** Version 1.2, 1/2016

Client: ARCADIS Location ID: ED-06.36-SLO1 Interval: 0.0' to 0.4'

Site Name: Elliott Ditch Horizon: 1 Gap:   

Project Name: Archived Sampling Soil Color: 10YR 6/2 2nd Soil Color: 10YR 8/6

Task #: 172-367 Log Date: 6/14/18 1200 4/14/18 1050

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Sandy Clay w/ sand

USCS Texture: CH

Structure Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:    USDA Texture:

**Notes**

TR?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: ADS

Data Entry By:  Same as above

**Sample Remarks**

**Internal Remarks**

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/2016

Client: ARCADIC  
 Site Name: Elliott Ditch  
 Project Name: Additional Sampling  
 Task #: 172-367  
 Log Date: 6/14/16 1050

Location ID: ED-00.36-SC01  
 Interval: 0.0' to 0.5'  
 Horizon: 2.5 yr 1/2 in/cr  
 Gap:     

Soil Color: 2.5 YR 3/2  
 2nd Soil Color:     

**Lab Data**  
 Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 2  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**  
 USDA Texture: Silt loam  
 USCS Texture: ML

**Structure**  
 Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other  
 Grade:  Weak  Moderate  Strong

**Other Characteristics**  
 Roots?  Few  Common  Many  
 Rocks?  <15%  15-35%  35-60%  60-90%  >90%  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood %: 0 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color:       
 USDA Texture:     

**Plasticity**  
 Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Field Personnel**  
 Logged By: LOS  
 Data Entry By: Same as above

**Notes**  
 Lacustrine?  Sand/gravel bed?   
 Tip?

**Internal Remarks**  
      
    

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/11

Location ID: ED-00.36-SLO1 Interval: 0.5 ft to 1.0 ft

Client: ARCENIC Site Name: Elliott Ditch Project Name: Archaeological Survey Task #: 172-367 Log Date: 6/14/16 1050

Horizon: 1 Gap:    ft

Soil Color: 2.5YR 3/2 2nd Soil Color:   

**Texture**  
USDA Texture: Silt loam  
USCS Texture: ML

**Structure**  
Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other      
Grade:  Weak  Moderate  Strong

**Lab Data**  
Duplicate?  Grab?  Composite?   
Matrix:  Sediment  Soil  Air  Water  
# of Containers: 1  
Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Plasticity**  
 Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**  
Logged By: GDS  
Data Entry By:  Same as above    

**Other Characteristics**  
Rocks?  Few  Common  Many  
Rocks?  <15%  15-35%  35-60%  60-90%  >90%  
Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
Wood %:    %  
Shells?  Plant Fragments?   
Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
Color:     
USDA Texture:   

**Notes**  
Lacustrine?  Sand/gravel bod?   
Tip?    

**Internal Remarks**  
  

**Sample Remarks**  
  

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



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**Soil Log** Version 1.2, 1/20/11

Client: Arizona Location ID: ED-00.36-SL01 Interval: 1.0 ft to 1.5 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Add. Insect Sampling Soil Color: 2.5 YR 9/2 2nd Soil Color:

Task #: 172-362 Color:

Log Date: 6/14/18 10:30

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  MS / MSD  Sediment  Soil  Air  Water

# of Containers: 3

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty Clay Loam

USCS Texture: MH

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Structure:  Weakly  Moderate  Strong

**Other Characteristics**

Rocks?  Few  Common  Many

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Sheets?  Plant Fragments?

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other:

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:  USDA-Texture:

**Field Personnel**

Logged By: GDS

Data Entry By:  Same as above

**Notes**

Lacustrine?  Sand/gravel bed?

**Internal Remarks**

Sample Remarks:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16 2.5' - 2.5'

Location ID: ED-00.36-SLO1 Interval: 10 to 20 ft

Client: Acrylic Project Name: Elliott Ditch Task #: 172-362 Log Date: 6/14/17 1050

Site Name: Additional Sample

Horizon: 1 Gap:      ft

Soil Color: 10YR 3/2 2nd Soil Color: 10YR 4/4

Color:     

Texture: Silty clay Structure:     

USDA Texture:      USCS Texture: MH

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Plasticity: Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: GD Data Entry By:  Same as above

Other Characteristics: Roots?  Few  Common  Many  Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood %      % Shells?  Plant Fragments?  Sublayers?  ≤0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft Color:      USDA Texture:     

Rocks?  <15%  15-35%  35-60%  60-90%  ≥90% Other: Petrochemical  Sulfur  Other  Notes: Tip?  Lacustrine?  Sand/gravel bed?

Sample Remarks: Redox feature

Internal Remarks:     

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log** Version 1.2, 1/20/16

Client: ARCADIS Location ID: ED-00.36-SL-01 Interval: 2.5 ft. to 3.0 ft.

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Additional Sampling Soil Color: 10YR 3/2 2nd Soil Color:

Task #: 172-367 Texture: silty clay Structure:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Log Date: 1/14/16 # of Containers: 1 Grade:  Weak  Moderate  Strong

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  AIC  Water

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: GDI

Data Entry By:  Same as above

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft.  0.05-0.1 ft.  0.1-0.2 ft.  0.2-0.5 ft.  >0.5 ft.

Odor?  Petrochemical  Sulfur  Other

**Notes**

TIP?  Lacustrine?  Sand/gravel bed?

USDA Texture:  USCS Texture: CH

Sample Remarks:

Internal Remarks:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log** Version 1.2, 1/20/16

Location ID: ED-00.36-S101 Interval: 3.0 ft as of 6/14/18

Client: ARC MAC Site Name: Elliott Ditch Project Name: Archaeological Sampling Task #: 172-367 Log Date: 6/14/18 - 1850 1105

Horizon: 1 Gap:      ft

Soil Color: 10YR 5/3 2nd Soil Color: 10YR 4/4

**Texture**  
USDA Texture: Silty Clay w/ gravel  
USCS Texture: CH

**Structure**  
Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other   
Grade:  Weak  Moderate  Strong

**Lab Data**  
Duplicate?  Grab?  Composite?   
Matrix:  Sediment  Soil  Air  Water  
# of Containers: 1  
Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Plasticity**  
 Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**  
Logged By: CS  
Data Entry By:  Same as above

**Other Characteristics**  
Rocks?  Few  Common  Many  
Rocks?  <15%  15-35%  35-60%  60-90%  >90%  
Odor?  Petrochemical  Sulfur  Other  
Till?  Lacustrine?  Sand/gravel bed?   
Notes:     

**Wood**  
Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
Wood %:      %  
Shrubs?  Plant Fragments?   
Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
Color:       
USDA Texture:     

**Sample Remarks**  
Internal Remarks:     

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Client: ARCANE      Location ID: ED-00-36-SL01      Interval: 0.05-0.15 ft      AS 6/14/18

Site Name: Elliott Ditch      Horizon: 1      Gap:      ft

Project Name: Archaeological Sampling      Soil Color: 10YR 4/4      2nd Soil Color: 10YR 5/3

Task #: 172-367      Texture: Silty clay w/ gravel      Structure:     

Log Date: 6/14/18

**Lab Data**

Duplicate?       Grab?       Composite?

Matrix:  Sediment       Soil       Air       Water

# of Containers:     

Priority:  Urgent (1)       Standard (2)       As Able (3)       As Needed (4)

**Field Personnel**

Logged By: GS

Data Entry By:  Same as above

**Texture**

USDA Texture:     

USCS Texture:     

Type:  Granular       Subangular Blocky       Angular Blocky       Single Grain       Massive       Other

Grade:  Weak       Moderate       Strong

**Other Characteristics**

Rocks?  Few       Common       Many

Rocks?  <15%       16-35%       36-60%       60-80%       >80%

Odor?  Petrochemical       Sulfur       Other

Wood?  Black Wood       Burned Wood       Sawdust       Wood Chips       Wood Pulp       Charcoal

Wood %: 0 %      Shells?  Plant Fragments?

Sublayers?  <0.05 ft       0.05-0.1 ft       0.1-0.2 ft       0.2-0.5 ft       >0.5 ft

Color:           USDA Texture:

**Notes**

TIP?       Lacustrine?       Sand/gravel bed?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# Soil Sediment Data Sheet

Project Name: Elkhoff Ditch Additional Sampling  
 Project Number: 172-367-0006  
 Field Location ID: ED-00-41-SL01  
 Core Type: Auger / SS-travel GeoProbe being  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0:0 - 4:0		100%

- 0.0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.7
- 3.7 - 4.0

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.4-SL1 Interval: 0.0' ft. to 0.5' ft.

Client: ARCADIAN Project Name: ELLIOTT DITCH Task #: 172-367-0009 Log Date: 06/14/16

Horizon: 1 Gap:      ft.

Soil Color: 10YR 2/2 2nd Soil Color:     

**Texture**  
 USDA Texture: Silt loam  
 USCS Texture: CL ML  
*as a fine*

**Structure**  
 Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other  
 Grade:  Weak  
 Moderate  
 Strong

**Other Characteristics**  
 Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal  
 Wood %: 25 %  
 Shells?  Plant Fragments?   
 Sublayers?       
 Color:      USDA Texture:     

**Lab Data**  
 Duplicate?  Grab?  Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers:       
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Plasticity**  
 Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic

**Field Personnel**  
 Logged By: AS  
 Date Entry By:       Same as above

**Notes**  
 T1?  Lacustrine?  Sand/gravel bed?

**Internal Remarks**  
      
    

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log** Version 1.2, 1/20/18

Client: ARCANE Location ID: ED-00-41-5L01 Interval: 0.5' to 1.0'

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Add. Insect Sampling Soil Color: 10YR 4/2 2nd Soil Color: 2.5Y 10/2

Task #: 17-562 0009

Log Date: 06/19/16

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: CS

Data Entry By:  Same as above

**Texture**

USDA Texture: ML

USCS Texture: ML

Texture: note: the clay has

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Odor?  Petrochemical  Sulfur  Other

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:  USDA Texture:

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

Sample Remarks: Redox soil

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



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**Soil Log** Version 1.2, 1/20/16

Location ID: ED-00.41-SL01 Interval: 1.0 ft to 1.5 ft

Client: Arcenic Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-367-009 Log Date: 06/24/18

Horizon: 1 ft Gap:      ft

Soil Color: 10YR 4/3 2nd Soil Color: 10YR 4/6

Texture: Sandy clay USCS Texture: SC

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:     

Grade:  Weak  Moderate  Strong

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water # of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: CS Date Entry By: Same as above

Other Characteristics: Rocks?  Few  Common  Many  Very Fine  Fine  Medium  Coarse  Very Coarse  Fine Gravel  Medium Gravel  Coarse Gravel  Cobbles  Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood %: 0 %  Plant Fragments?  Shells?  Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft Color:      USDA Texture:     

Notes:  Lacustrine?  Sand/gravel bed?  TIP?

Sample Remarks:      Internal Remarks:     

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/18

Location ID: ED-00-H1-SL01 Interval: 1.5' in to 2.0' in

Client: Arzenic Project Name: Elliott Ditch Task #: 172-367 cover Log Date: 06/16/18

Horizon: 1 Cap:

Soil Color: 10YR 4/2 2nd Soil Color: 5YR 4/6

Texture: Sandy Clay Structure: OH

USDA Texture:  USCS Texture: OH

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Lab Data:  Duplicate?  Grab?  Composite? Matrix:  Sediment  Soil  AUF  Water # of Containers: 2 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: CS Data Entry By: Same as above

Other Characteristics:  Very Fine  Fine  Medium  Coarse  Very Coarse  Fine Gravel  Medium Gravel  Coarse Gravel  Cobbles  Wood?  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood % 0 %  Plant Fragments?  Shells?  Sublayers?  ≤0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  Color  USDA Texture

Notes:  TIP?  Lacustrine?  Sand/gravel bed?

Internal Remarks: Reboxomorphic

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**TETRA TECH** **ED-00.41-9 Soil Log** Version 1.2, 1/20/11

Client: Arcenic Location ID: ED-00.41-9-43 Interval: 2.0' to 2.5'

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Abb. Sampling Soil Color: 10YR 4/2 2nd Soil Color: 5YR 4/6

Task #: 136-362 Texture: Sandy clay Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Log Date: 06/14/18 USCS Texture: CH Grade:  Weak  Moderate  Strong

Lab Data: Duplicates?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water

# of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: GS Data Entry By:  Same as above

Other Characteristics: Rocks?  Few  Common  Many  Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood % 9 %  Shell?  Plant Fragments?

Rocks?  <15%  15-35%  35-60%  60-80%  >80% Odor?  Petrochemical  Sulfur  Other

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft Color:  USDA Texture:

Notes:  Tip?  Lactinins?  Sand/gravel bed?

Sample Remarks: Redox Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Client: Arcenic  
 Site Name: Elliott Ditch  
 Project Name: Anthropogenic Sampling  
 Task #: 172-767-0069  
 Log Date: Nov 16

Location ID: ED-00-A1-801  
 Interval: 2.5' to 3.0'

Horizon: 1  
 Gap:

Soil Color: 10YR 4/2  
 2nd Soil Color:

Color:

**Lab Data**  
 Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  
 Soil  
 Air  
 Water  
 # of Containers: 1  
 Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Texture**  
 USDA Texture: Silty clay  
 USCS Texture: CH

**Structure**  
 Type:  Granular  
 Subangular Blocky  
 Angular Blocky  
 Single Grain  
 Massive  
 Other   
 Grade:  Weak  
 Moderate  
 Strong

**Other Characteristics**  
 Rocks?  Few  
 Common  
 Many  
 Plasticity:  Non-plastic  
 Slightly Plastic  
 Moderately Plastic  
 Very Plastic  
 Wood?  Wood  
 Black Wood  
 Burned Wood  
 Sawdust  
 Wood Chips  
 Wood Pulp  
 Charcoal  
 Wood %:  %  
 Sheels?  Plant Fragments?   
 Sublayers?       
 <0.05 ft  
 0.05-0.1 ft  
 0.1-0.2 ft  
 0.2-0.5 ft  
 >0.5 ft  
 Color:   
 USDA Texture:

**Field Personnel**  
 Logged By: GS  
 Data Entry By:  Same as above

**Notes**  
 TIP?  Lacustrine?  Sand/gravel bed?   
 Petrochemical:  Slight  
 Moderate  
 Strong  
 Sulfur:   
 Other:

**Internal Remarks**

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/18

Location ID: ED-0041-SL01 Interval: 5.0 ft to 3.7 ft

Client: Abronic Project Name: Elliott Ditch Task #: 176-367 Log Date: 06/14/18

Horizon: 1 Gap:    n

Soil Color: 10YR 3/2 2nd Soil Color:   

Texture: clay silty clay Structure:   

USDA Texture:    USCS Texture: CH

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: AS Data Entry By:  Same as above

Other Characteristics: Rocks?  Few  Common  Many  Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood % 0 %

Plasticity: Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Notes:  Lacustrine?  Sand/gravel bed?  Tilt?   Plant Fragments?  Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft Color:    USDA Texture:   

Internal Remarks:   

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-44-SLO1 Interval: 3.7 ft to 4.0 ft

Client: Arcenic Project Name: Elliott Ditch Task #: 172-367 Log Date: 6/14/16

Site Name: AD Summary

Horizon: 1 Gap:      ft

Soil Color: 10YR 3/2 2nd Soil Color:     

Texture: Silty clay USDA Texture: CH USCS Texture: CH

Structure:      Type:      Grade:     

Other Characteristics:      Wood:      Wood %: 0 %

Notes:     

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: GS Data Entry By: Same as above

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Rocks?  Few  Common  Many  Petrochemical  Sulfur  Other

Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse  Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

USDA Texture:      USCS Texture:     

Internal Remarks:     

Sample Remarks:     

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil  
**Sediment Data Sheet**

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.44-SL01  
 Core Type:  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 4.0		100 %

- 0.0' - 0.5'
- 0.5 - 1.0'
- 1.0 - 1.5'
- 1.5 - 1.8'
- 1.8 - 2.0'
- 2.0 - 2.5'
- 2.5 - 3.0'
- 3.0 - 3.5'
- 3.5 - 4.0'

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 1

**Soil Log** Version 1.2, 1/20/16

Location ID: ED-00.44-SLO Interval: 0.0' n to 0.5'

Client: ATRONIC

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-362

Log Date: 6/14/18

Horizon: 1 Gap:      ft

Soil Color: 5/2 2nd Soil Color: 3/2

Texture: Gravel Structure:     

USDA Texture:      USCS Texture: GW

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: AS Date Entry By:  Same as above

Other Characteristics:  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Shell Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:      USDA Texture:     

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other

Notes:  TIP?  Lacustrine?  Sand/gravel bed?

Sample Remarks:     

Internal Remarks:     

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



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**Soil Log**  
Version 1.2.12/1/11

Client: **Arconic**  
 Location ID: **ED-00.44-SL01**  
 Interval: **0.5** ft to **1.0** ft

Site Name: **Elliott Ditch**  
 Project Name: **172-367 Additional Sampling**  
 Task #: **0809**  
 Log Date: **6/14/16** 11:27

Horizon: **1**  
 Gap: **0** ft

Soil Color: **10YR 6/2**  
 2nd Soil Color: **10YR 5/2**  
 Color: **10YR 6/2**

**Lab Data**  
 Duplicate?   
 Grab?   
 Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: **1**  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**  
 USDA Texture: **Grnd**  
 USCS Texture: **GM**

**Structure**  
 Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other  
 Grade:  Weak  Moderate  Strong

**Other Characteristics**  
 Rocks?  Few  Common  Many  
 Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  
 Wood %: **0** %  
 Shells?  Plant Fragments?   
 Sublayers?       
 ≤0.05 ft   
 0.05-0.1 ft   
 0.1-0.2 ft   
 0.2-0.5 ft   
 >0.5 ft   
 Color:   
 USDA Texture:

**Plasticity**  
 Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Field Personnel**  
 Logged By: **GDS**  
 Data Entry By:  Same as above

**Internal Remarks**  
 Sample Remarks:  Lacustrine?  Sand/gravel bed?   
 TBP?

**Notes**

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/11

Client: ARCANE Location ID: ED-00.44-SLO Interval: 1.0 ft to 1.5 ft

Site Name: Elliott Ditch Horizon: 1 ft Gap:      ft

Project Name: Additional Samples Soil Color: 10YR 6/2 2nd Soil Color: 10YR 5/2

Task #: 122-367 Color:     

Log Date: 6/14/16 11:27

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Gravel

USCS Texture: GM

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Structure:     

Grade:  Weak  Moderate  Strong

**Field Personnel**

Logged By: GDS

Data Entry By:  Same as above

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.3 ft  >0.5 ft

Color:     

USDA Texture:

**Notes**

TIIP?  Lacustrine?  Sand/gravel bed?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.44-SL01 Interval: 1.5 ft to 1.8 ft

Client: Arceonic      Project Name: Elliott Ditch      Task #: 172-367      Log Date: 6/14/13 - 11/14

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-367

Log Date: 6/14/13 - 11/14

Horizon: 1      Gap:

Soil Color: 10YR 3/2      2nd Soil Color: 10YR 5/4      Color:

Texture: Silty clay      Structure:  Granular     Subangular Blocky     Angular Blocky     Single Grain     Massive     Other

USDA Texture:  Very Fine     Fine     Medium     Coarse     Very Coarse

USCS Texture: CH

Plasticity:  Non-plastic     Slightly Plastic     Moderately Plastic     Very Plastic

Lab Data: Duplicate?     Grab?     Composite?     Matrix:  Sediment     Soil     Air     Water    # of Containers: 2    Priority:  Urgent (1)     Standard (2)     As Able (3)     As Needed (4)

Field Personnel: Logged By:     Data Entry By:  Same as above

Other Characteristics: Wood?  Wood     Black Wood     Burned Wood     Sawdust     Wood Chips     Wood Pulp     Charcoal    Wood %:  %    Shells?  Plant Fragments?     Sublayers?  ≤0.05 ft     0.05-0.1 ft     0.1-0.2 ft     0.2-0.6 ft     >0.5 ft    Color:     USDA Texture:

Rocks?  Few     Common     Many    Petrochemical:  Slight     Moderate     Strong    Sulfur:     Other:     Notes:  Lactinme?  Sand/gravel bed?     Tip?

Rocks?  <15%     15-35%     35-60%     60-80%     >80%    Odor?

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.44 - SLO1 Interval: 1.8 ft to 2.0 ft

Client: Arctic      Project Name: Elliott Ditch      Site Name: Elliott Ditch

Task #: 197-367      Log Date: 6/14/16 - 1140

Horizon: 1      Gap:    ft

Soil Color: 10YR 5/4      2nd Soil Color: 10YR 5/1

Texture: Sandy loam clay      Structure:   

USDA Texture:         USCS Texture: CH

Plasticity:   

Field Personnel: AS

Lab Data:  Duplicates?     Grab?     Composite?    Matrix:  Sediment     Soil     Air     Water

% of Containers: 1      Priority:  Urgent (1)     Standard (2)     As Able (3)     As Needed (4)

Logged By: AS      Data Entry By:  Same as above

Other Characteristics:   

Rocks?  Few     Common     Many     <15%     15-35%     35-60%     60-80%     >80%

Odor?  Petrochemical     Sulfur     Other

Wood?  Wood     Black Wood     Blurred Wood     Sawdust     Wood Chips     Wood Pulp     Charcoal

Wood %: 0 %      Strata?  Plant Fragments?

Sublayers?  ≤0.05 ft     0.05-0.1 ft     0.1-0.2 ft     0.2-0.5 ft     >0.5 ft

Notes:   

Tip?  Lacustrine?  Sand/gravel bed?

USDA Texture:   

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-44-Sk1 Interval: 2.0' to 2.5' ft

Client: Arcenic Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-367 Log Date: 6/14/18-1143

Horizon: 1 Gap:     

Soil Color: 10YR 5/4 2nd Soil Color: 10YR 3/1

Texture: Sandy loam clay Structure:     

USDA Texture:      USCS Texture: CH

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: GDS Data Entry By:  Same as above

Other Characteristics: Roots?  Very Fine  Fine  Medium  Coarse  Very Coarse  Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood %      %

Rocks?  Few  Common  Many   <15%  15-35%  35-60%  60-80%  >80%

Odor?  Petrochemical  Sulfur  Other  Shell?  Plant Fragments?  Sublayers?   ≤0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Notes:  Tip?  Lacustrine?  Sand/gravel bed?  USDA Texture:     

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Sample Remarks:      Internal Remarks:     

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/2/16

Location ID: ED-00.44-SLO1 Interval: 2.5 ft to 3.0 ft

Client: ARRAZZ      Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-376 0009

Log Date: 6/14/16 - 1148

Horizon: 1      Gap:

Soil Color: 10YR 4/4      2nd Soil Color: 10YR 3/1

Color

**Lab Data**

Duplicate?       Grab?       Composite?

Matrix:  Sediment       Soil       A/E       Water

# of Containers: 1

Priority:  Urgent (1)       Standard (2)       As Able (3)       As Needed (4)

**Field Personnel**

Logged By: GDS

Data Entry By:  Same as above

**Texture**

USDA Texture: Silty clay w/ sand

USCS Texture: CH

**Structure**

Type:  Granular       Subangular Blocky       Angular Blocky       Single Grain       Massive       Other

Grade:  Weak       Moderate       Strong

**Other Characteristics**

Roots?  Few       Common       Many

Rocks?  <15%       15-35%       35-60%       60-80%       >80%

Odor?  Petrochemical       Sulfur       Other

Plasticity:  Non-plastic       Slightly Plastic       Moderately Plastic       Very Plastic

Wood?  Wood       Black Wood       Burned Wood       Sawdust       Wood Chips       Wood Pulp       Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft       0.05-0.1 ft       0.1-0.2 ft       0.2-0.5 ft       >0.5 ft

**Notes**

Tip?       Lacustrine?       Sand/gravel bed?     

USDA Texture:       Color:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/11

Location ID: ED-00-04-SL01 Interval: 3.0 ft to 3.5 ft

Client: ARCADIC Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-367 Log Date: 6/14/18 151

Horizon: 1 Gap:

Soil Color: 10YR 4/1 2nd Soil Color: 10YR 5/3

Texture: Silty Clay w/ sand Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

USDA Texture:  Very Fine  Fine  Medium  Coarse  Very Coarse  Fine Gravel  Medium Gravel  Coarse Gravel  Cobbles

USCS Texture: CH

Other Characteristics: Rocks?  Few  Common  Many   <15%  15-35%  35-60%  60-80%  >80%

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 1 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: ADS Date Entry By:  Same as above

Notes:  Tip?  Lacustrine?  Sand/gravel bed?

Internal Remarks:   
 Sample Remarks:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/11

Location ID: ED-OC.44-SLO1 Interval: 3.5 ft to 4.0 ft

Client: ARONIC Project Name: ELLIOTT DITCH Task #: 172-367 Log Date: 6/14/16 1161

Site Name: ELLIOTT DITCH

Project Name: ADDITIONAL SAMPLER

Task #: 172-367

Log Date: 6/14/16 1161

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: \_\_\_\_\_

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: GDS

Data Entry By:  Same as above

**Soil Color**

Soil Color: 10YR 5/2 2nd Soil Color: 10YR 3/2

Horizon: 1 Cap: \_\_\_\_\_

**Texture**

USDA Texture: Silty Clay

USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other \_\_\_\_\_

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Odor?  Petrochemical  Sulfur  Other \_\_\_\_\_

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Sheets?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: \_\_\_\_\_

USDA Texture: \_\_\_\_\_

**Notes**

TriP?  Lacustrine?  Sand/gravel bed?

**Sample Remarks**

Internal Remarks

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



# Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.51-3LOG  
 Core Type: Auger / hand trowel  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2.0					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
1.0 - 2.0		100%

1.0 - 1.5  
1.5 - 2.0

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

EQ

**Soil Log** Version 1.2, 1/22/16 Page 1 of 1

Client: Arcade  
 Site Name: Elliott Ditch  
 Project Name: Additional Sampling  
 Task #: 172-367  
 Log Date: 6/16/16

Location ID: ED-00.51-SL06 Interval: 1.0 # to 1.5  
 Horizon: 1 Gap:

Soil Color: 2.5YR 3/1 2nd Soil Color:

Texture: Silty clay loam

USDA Texture:  Very Fine  Fine  Medium  Coarse  Very Coarse  
 Fine Gravel  Medium Gravel  Coarse Gravel  Cobbles

USCS Texture:  Silty  Clayey  Silty clayey  Silty clayey loam  Silty clayey sand  Silty sand  Silty sand with gravel  Sand  Sand with gravel  Gravel

Structure:  Single Grain  Subangular Blocky  Angular Blocky  Subangular  Angular  Massive  Other:

Grade:  Weak  Moderate  Strong

Rocks?  Few  Common  Many  
 Rocker?  <15%  15-35%  35-50%  50-80%  >80%

Other Characteristics:  Wood?  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Shavings?  Plant Materials?

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic


Field Personnel: Logged By: ADS Data Entry By:  Same as above

Lab Data: Duplicate?  Grab?  Composite?   
 Matrix:  Sediment  Soil  Air  Water  
 # of Containers: 2  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Notes:  Lacustrine?  Semi-gravel bed?

Internal Remarks: Site has signs of human impact (Camp)

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



**Soil Log**  
Version 1.2, 1/20/16

Page 1 of 1

Location ID: ED-00.51-SLO6 Interval: 1.5 # to 20.0

Horizon: 1 Gap:

**Client:** ARCENIC

**Site Name:** Elliott Ditch

**Project Name:** Asst. Sampling

**Task #:** 172-367

**Log Date:** 6/16/15

**Soil Color**  
Munsell Color: 10YR 5/3  
and Soil Color: 10YR 3/2

**Texture**  
USDA Texture: Silty clay loam  
USCS Texture: MH

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 2

Urgent (1)   
Standard (2)   
As Atlas (3)   
As Needed (4)

US 10/6  
6/16/15

**Structure**

Grade:  Weak   
 Moderate  Strong

**Other Characteristics**

Wood?  Wood   Blak Wood   
 Burned Wood  Sawdust  Wood Chip   
 Wood Pulp  Charcoal

Shells?  Plant Fragments?

Substrates?  #0.5 #   
 0.05-0.1 #   
 0.1-0.2 #   
 0.2-0.5 #   
 0.5 #

Plasticity:  Non-plastic   
 Slightly Plastic   
 Moderately Plastic   
 Very Plastic

Rocks?  Fine  Common  Many   
Flocks?  <15%  15-35%  35-60%  60-90%  >90%

Duby?  Petrochemical  Sulfur  Other

Notes:  Limestone?  Sandstone?

**Field Personnel**

Logged By: GDS

Data Entry By:  Same as above

**Sample Remarks**

Location in  
the anthropomorphic  
impacted area  
(Camp)

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-00.82-SL03  
 Core Type: Auger / hand trowel  
 Field Remarks:  
 Northing: (ft)  
 Easting: (ft)

Cored By: GDS  
 Cored Date: 6/14/18  
 Described By: GDS  
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2.0					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
1.5 - 2.0	1.5	100%

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

**Soil Log** Version 1.2, 1/20/16

Client: ATLANTEC Location ID: ED-08.82-SL03 Interval: 1.5 ft to 2.0 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Additional Sampling Soil Color: 10YR 3/2 2nd Soil Color: N/A

Task #: 172-367 Log Date: 6/15/18

**Lab Data**

Duplicate?  Grab?  Composite?

Mixing:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Aft (3)  As Needed (4)

**Texture**

USDA Texture: Very Fine Sandy loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Odor?  Petrol/chemical  Sulfur  Other

Color?  Slight  Moderate  Strong

Wood?  Wood  Blunt Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Shell Fragments?

Substrata?  <4.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Notes:  Limestone?  Sand/gravel bed?

**Field Personnel**

Logged By: GD

Data Entry By:  Same as above

**Internal Remarks**

Sample Remarks: Last recoverable depth. Recovery @ 2.0'

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-01.14-SLO1  
 Core Type: Auger (hand) trowel  
 Field Remarks:   
 Northing: (ft)  
 Easting: (ft)

Cored By: GOS  
 Cored Date: 6/15/18  
 Described By: GOS  
 Described Date: 6/15/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2.0'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5 - 2.0		100%

0.5' - 1.0'  
 1.0' - 1.5'  
 1.5' - 2.0'

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

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## Soil Log

Version 1.2, 1/20/16

Client: Arizona  
 Site Name: Elliott Ditch  
 Project Name: Additional Sampling  
 Task #: 102-367  
 Log Date: 6/15/16

Location ID: ED-01-14-SLO1 Interval: 0.5 ft to 1.0 ft

Horizon: 1 Gap:      ft

Soil Color: 10YR 2/3.4 Color:     

Soil Color:      Color:     

**Texture**

USDA Texture: Silty clay loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other     

Grade:  Weak  Moderate  Strong

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By:     

Data Entry By:  Same as above      

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Rocks?**  Few  Common  Many

**Rocks?**  <15%  15-35%  35-60%  60-80%  >80%

**Other Characteristics**

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 45 %

Shell?  Plant Fragments?

**Color?**  Petrochemical  Sulfur  Other

**Subsides?**  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

**Notes**

RIP?  Lacustrine?  Sand/gravel bed?

**Internal Remarks**

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

**Soil Log** Version 1.2, 1/20/16 Page \_\_\_ of \_\_\_

Location ID: ED-01.14-SLO1 Interval: 1-0 ft to 1.5 ft

Client: Arcenic Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 122-3167 Log Date: 6/15/18

Horizon: 1 Gap:     

Soil Color: 10YR 3/3 2nd Soil Color: N/A

Texture: Silty clay loam Structure:     

USDA Texture:      USCS Texture: MH

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers:      Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Field Personnel: Logged By: ADS Data Entry By:  Same as above  Other

Other Char. Characteristics:  Very Fine  Fine  Medium  Coarse  Very Coarse  Fine gravel  Medium Gravel  Coarse Gravel  Cobbles  Rootlets?  Few  Common  Many  Roots?  Wood?  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Sheet?  Plant Fragments?  Sublayers?  Color:     

Notes:  Tip?  Lacustrine?  Sandily over bed?

Sample Remarks:      Internal Remarks:     

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



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## Soil Log

Version 1.2 (1/2010)

Location ID: ED-01.14-SL01-15-20 Interval: 1.5 ft to 2.0 ft

Client: Arconic      Project Name: Ballast Ditch      Task #: 172-367      Log Date: 6/15/16

Site Name: Ballast Ditch      Project Name: Ballast Ditch      Task #: 172-367      Log Date: 6/15/16

Task #: 172-367      Log Date: 6/15/16

Horizon: 1      Gap: 2.1 ft

Soil Color: 2/3/10YR      2nd Soil Color:         

Texture: Silty Clay loam      Structure:         

USDA Texture:               USCS Texture: MH

Plasticity:         

Lab Data: Duplicate?       Grab?       Composite?       Matrix:  Sediment       Soil       Air       Water      # of Containers: 2

Priority:  Urgent (1)       Standard (2)       As Able (3)       As Needed (4)

Field Personnel: Logged By: GS      Data Entry By:  Same as above

Other Characteristics:         

Rocks?  Few       Common       Many      Petrochemical:  Slight       Moderate       Strong

Odor?       Lacustrine?       Sand/gravel bed?       Notes:         

USDA Texture:         

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# S<sub>121</sub> Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367-0009  
 Field Location ID: ED-01.14-8604  
 Core Type: Auger - 1 hand trowel  
 Field Remarks:  
 Northing (N):  
 Easting (E):

Cored By: GDS  
 Cored Date: 6/15/18  
 Described By: GDS  
 Described Date: 6/15/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2.0					
<del>1.8</del>					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 1.8		90

0.0 - 0.5  
 0.5 - 1.0  
 1.0 - 1.5  
~~1.5 - 2.0~~  
 1.5 - 1.8

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 1

## Soil Log

Version 1.2, 1/20/16

Client: ARRANIC Location ID: ED-0114-SL04 Interval: 0.0 ft to 0.5 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Additional Sampling Soil Color: 2.5YR 7/2

Task #: 172-367-0009 2nd Soil Color:

Log Date: 6/15/19

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Fine Sandy loam

USCS Texture: SMCL

Other: W 0.15

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Other?  Petrochemical  Sulfur  Other

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wharf  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %:  %

Spalls?  Plain/Fragile/Asp?

Sublayers?  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:

JSDA Texture:

**Field Personnel**

Logged By: CB

Date Entry By:  Same as above

**Notes**

70%?  Leaching?  Same/Gravel Box?

**Internal Remarks**

large stones common

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

## Soil Log

Version 1.2, 1/20/16

Client: ATRONIC Location ID: ED-0114-SLO4 Interval: 0.5 ft to 1.0 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Additional Samples Soil Color: 10YR 3/6

Task #: 172-367 2nd Soil Color:

Log Date: 6/15/16 Color:

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment   
 Soil   
 Air  Water

# of Containers: 1

Priority:  Urgent (1)  
 Standard (2)  
 As Able (3)  
 As Needed (4)

**Field Personnel**

Logged By: GDJ

Date Entry By:  Same as above

**Internal Remarks**

organic material

**Texture**

USDA Texture: Fine Sandy loam

USCS Texture: 4/ organics

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other:

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Woods?  Sawdust  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 25 %

Shell?  Shell Fragments?

Substrata?  +US  0.05-0.1  0.1-0.2  0.2-0.5  >0.5

Color:

USDA Texture:

Notes:  Lacustrine?  Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

## Soil Log

Version 1.2, 1/20/16

Client: Arconic Location ID: ED-01.14-04 Interval: 1.0 ft to 1.5 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Addressed Sampling Soil Color: 10YR 9/2 2nd Soil Color: 10YR 5/1

Task #: 172-267 Texture: Fine Sandy loam Structure:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massed  Other

Log Date: 6/15/16 USDA Texture: ML U/USCS Texture: ML Grade:  Weak  Moderate  Strong

Lab Data: Duplicate?  Grab?  Composite?  Matrix:  Sediment  Soil  Air  Water  # of Containers: 2 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Field Personnel: Logged By: AS Data Entry By:  Same as above

Other Characteristics: Rocks?  Few  Common  Many   <15%  15-35%  35-60%  60-80%  80-90%  >90%  Very Fine  Fine  Medium  Coarse  Very Coarse  Fine Gravel  Medium Gravel  Coarse Gravel  Cobbles  Wood?  Black Wood  Barked Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal  Wood % 0 %  Plant Fragments?

Odor?  Petrochemical  Slight  Moderate  Strong  Sulfur  Other

Shells?  Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  Color:  USDA Texture:

TIP:  Lacustrine?  Sandy/gravel bed?

Notes:

Internal Remarks:

Sample Remarks:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page \_\_\_\_\_ of \_\_\_\_\_

## Soil Log

Version 1.2, 1/2018

Client: ARMAAC  
 Site Name: Elliott Ditch  
 Project Name: 172-367 Additional Sample  
 Task #: 172-767  
 Log Date: 6/15/16

Location ID: ED-01-14-SL04 Interval: 1.5' n to 1.8' n  
 Date: 05/06/16  
 Horizon: 1 Gap: \_\_\_\_\_ n

Soil Color: 10YR 4/2 2nd Soil Color: 10YR 5/4  
 Color: \_\_\_\_\_

**Texture**

USDA Texture: Sandy Clay Loam

USCS Texture: CH

Type:  Greenish  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other: \_\_\_\_\_

Grade: Weak  Moderate  Strong

**Structure**

Other Characteristics

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Woody?  Wood %  %

Shrubs?  Plant Fragments?

Substrates?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: \_\_\_\_\_ USDA Texture: \_\_\_\_\_

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: \_\_\_\_\_

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: GOS

Data Entry By:  Same as above

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Rocks?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Color?  Petrochemical  Sulfid  Other

**Notes**

Thin?  Laminar?  Sharp/Gravel/Bed?

Sample Remarks: 05-061516  
1.5'-2.0' in H<sub>2</sub>O tank

Internal Remarks: \_\_\_\_\_

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

~~Soil~~ Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367-0006  
 Field Location ID: ED-01.14-SLOS  
 Core Type: Auger / trowel  
 Field Remarks:  
 Northing (ft):  
 Easting (ft):

Cored By: GDS  
 Cored Date: 6/15/16  
 Described By: CS  
 Described Date: 6/15/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2.0					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 2.0		100
0.0 - 0.5		
0.5 - 1.0		
1.0 - 1.5		
1.5 - 2.0		

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 1

## Soil Log

Version 1.2, 1/20/16

Location ID: ED-01.14 - SLOS Interval: 0.0 ft to 0.5 ft

Client: Arce@v.vic Site Name: Elliott Ditch Project Name: ADD Sampling Task #: 172767-0009 Log Date: 6/15/18

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: GDJ Data Entry By:  Same as above

**Soil Color**

Horizon: 1 Gap:

Soil Color: 10YR 4/4 ? No. Soil Color:

**Texture**

USDA Texture: Silty clay loam

USCS Texture: CH

**Structure**

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other	

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wood  Black Wood  Burned/Worn  Sawdust  Wood Chips  Wood Rub  Charcoal

Wood %: 0

Shells?  Plant Fragments?

Sublayers?

Color:

USDA Texture:

**Notes**

Till?  Lacustrine?  Sand/gravel bed?

**Internal Remarks**

organic

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-01.14-SLOS Interval: 0.5 ft to 1.0 ft

Client: ARCONIC

Site Name: Elliott Ditch

Project Name: ADD. Sampling

Task #: 172-367

Log Date: 6/15/18

Horizon: 10YR 4/4 NA  
US Colors

Gap:          ft

Soil Color: 10YR 4/4

2nd Soil Color:         

Color:         

**Lab Data**

Duplicate?

Grab?

Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: S. Hy clay

USCS Texture: CH

**Structure**

Type	Grade
<input checked="" type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other	

**Field Personnel**

Logged By: GDS

Data Entry By:  Same as above

**Other Characteristics**

Rocks?  Few  Common  Many

Rocks:  <15%  15-35%  35-60%  60-90%  >90%

Odor?  Petrochemical  Sulfur  Other

Plasticity

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input checked="" type="checkbox"/> Moderately Plastic
<input type="checkbox"/> Very Plastic

**Other Characteristics**

Router?  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Bark Wood  Burned Wood  Salvage  Wood Chips  Wood Pulp  Charcoal

Wood %:         

Shells?  Plant Fragments?

Succubers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:         

USDA Texture:

**Notes**

TMP?  Lacustrine?  Sand/gravel bed?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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## Soil Log

Version 1.2, 1/20/16

Location ID: ED-01.4-SLOS Interval: 1.0 # to 15e

Client: ARCENIC

Site Name: Elliott Ditch

Project Name: ARCENIC

Task #: 172-3427

Log Date: 6/15/16

Horizon: 1 Gap:

Soil Color: 10YR 5/4 2nd Soil Color:

Color:

**Texture**

USDA Texture: Silty clay loam

I/SOS Texture: MH

Structure

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Afile (3)  As Needed (4)

**Field Personnel**

Logged By: WDS

Data Entry By:  Same as above

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Rocks?  Few  Common  Many

Very Fine:  Very Fine  Fine  Medium  Coarse  Very Coarse

Wood?  Wood  Black Wood  Burnt Wood  Sawdust  Wood Chips  Wood Stubs  Charcoal

Wood %: 0 %

Stippled?  Plant Fragment?

Sublayers?

Color:

USDA Texture:

**Notes**


Notes:  Limestone?  Sand/Gravel bed?

**Internal Remarks**

Sample Remarks:

Internal Remarks:

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



**TETRA TECH**

**Soil Log**

Version 1.2, 1/20/16

Page 1 of 1

Location ID: ED-014-SLOS Interval: 1.5 ft to 2.0 ft

Client: Arcane Site Name: Elliott Ditch Project Name: Add. Sampling Task #: 172-367-0009 Log Date: 6/15/18

Horizon: 1 Gap: 0 ft

Soil Color: 10YR 5/4 2nd Soil Color:     

**Texture**

USDA Texture: Silty clay USCS Texture: CH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Masses/Flakes  Other     

Grade:  Weak  Moderate  Strong

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**

Logged By: GOS Data Entry By:  Same as above      

**Plasticity**

Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Wood?  Wood  Black Wood  Rippled Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:      USDA Texture:     

**Notes**

Limestone?  Sand/gravel bed?

Sample Remarks:     

Internal Remarks:     

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

# Soil ~~Sediment~~ Data Sheet

Project Name: Elliott Ditch Additional Sampling  
 Project Number: 172-367.0006  
 Field Location ID: ED-01.14-SLOG  
 Core Type: Auger / trowel  
 Field Remarks:  
 Northing (N):  
 Easting (E):

Cored By: GDS  
 Cored Date: 6/15/18  
 Described By: GDS  
 Described Date: 6/15/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
1.5					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 1.5		100%

0.0 - 0.5  
 0.5 - 1.0  
 1.0 - 1.5

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Page      of     

Version 1.2, 1/20/16

**TETRA TECH**

Client: ARCADIS

Site Name: Elliott Ditch

Project Name: ED - Elliott Ditch

Task #: 172-367

Log Date: 6/13/18

Location ID: ED-0114-06SE

Interval: 0.0 ft to 0.5 ft

Horizon: 1

Gap: 0.0-0.1

**Lab Data**

Duplicates?

Grib?

Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Color**

Soil Color: 10YR 5/2

2nd Soil Color: 7.5YR

**Texture**

USDA Texture: Silty clay loam

USCS Texture: MH

**Structure**

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Abundant

Rocks?  <15%  15-35%  35-60%  60-90%  >90%

Plasticity:  Non-Plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood:  Bark Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Plant Fragments?

Shells?

Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Gravel:  USDA Texture

**Field Personnel**

Logged By: Greg Schuch

Date Entry By:  Same as above

**Sample Remarks**

**Internal Remarks**

**Notes**

Excavated?  Sand/gravel bed?

Tip?

**Figure 3.** Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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**Soil Log** Version 1.2, 1/20/16

Location ID: ED-01.14-02.06 Interval: 0.5' ft to 1.0 ft

Client: Arcenic Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-367-0009 Log Date: 06/13/16

Horizon: 1 0.5' to 1.0' w/ c/19/16 Color: 10YR 4/3

2nd Soil Color: 10YR 4/3

Soil Color: 10YR 4/3

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty clay loam

USCS Texture: MH

Structure

Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weak  Moderate  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  1-5%  15-35%  35-60%  60-80%  >80%

Odor?  Petrochemical  Sulfur  Other

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  0-0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color: USDA Texture

Notes:  Tip?  Lacustrine?  Sand/gravel bed?

**Field Personnel**

Logged By: Greg Selbach

Data Entry By: Same as above

**Sample Remarks**

**Internal Remarks**

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

**Soil Log** Version 1.2, 1/20/18

ED-01.14-8106  
ED-00.1

Location ID: ED-01.14-8106 Interval: 1.0' to 1.5'

Client: ARCANE Horizon: 1

Site Name: Elliott Ditch Gap:         

Project Name: Additional Sampling Color:         

Task #: 172-367-007 2nd Soil Color:         

Log Date: 06/21/18

**Lab Data**

Duplicate?  Grab?  Composite?

Matrix:  Sediment  Soil  Air  Water

# of Containers: 1

Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Texture**

USDA Texture: Silty Clay loam

USCS Texture: MH

Structure Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other

Grade:  Weakly  Moderately  Strong

**Other Characteristics**

Roots?  Few  Common  Many

Rocks?  <15%  15-35%  35-60%  60-80%  >80%

Odor?  Petrochemical  Sulfur  Other

Plasticity:  Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

Wood?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pulp  Charcoal

Wood %: 0 %

Shells?  Plant Fragments?

Sublayers?  ≤0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft

Color:          USDA Texture:

**Field Personnel**

Logged By: Greg Schmitt

Data Entry By:          Same as above

**Notes**

7/1?  Lacustrine?  Sand/gravel bed?

**Internal Remarks**

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

### Soil Log Version 1.2/12/2016

Location ID: ED-01.14-SLO6-T as dist Interval: 1.5' ft to 2.0' ft

Client: Arconic  
 Site Name: Elliott Ditch  
 Project Name: Additional Sample  
 Task #: 172-067 0001  
 Log Date: 06/13/16

Horizon: 1 ft Gap:      ft

Soil Color: 10YR 3/2 2nd Soil Color: NA

**Texture**  
 USDA Texture: Silty Clay loam  
 USCS Texture: MH

**Structure**  
 Type:  Granular  Subangular Blocky  Angular Blocky  Single Grain  Massive  Other \_\_\_\_\_  
 Grade:  Weak  Moderate  Strong

**Lab Data**  
 Duplicate?  Grab?  Composite?   
 Moisture:  Sediment  Soil  Air  Water  
 # of Containers: 1  
 Priority:  Urgent (1)  Standard (2)  As Able (3)  As Needed (4)

**Field Personnel**  
 Logged By: CS  
 Data Entry By:  Same as above

**Plasticity**  
 Non-plastic  Slightly Plastic  Moderately Plastic  Very Plastic

**Other Characteristics**  
 Woods?  Wood  Black Wood  Burned Wood  Sawdust  Wood Chips  Wood Pub  Charcoal  Wood % 0 %  
 Shells?  Plant Fragments?   
 Sublayers?  <0.05 ft  0.05-0.1 ft  0.1-0.2 ft  0.2-0.5 ft  >0.5 ft  
 Color: \_\_\_\_\_  
 USDA Texture: \_\_\_\_\_

**Rocks?**  Few  Common  Many  
 <15%  15-35%  35-60%  60-80%  >80%  
 Odor?  Petrochemical  Sulfur  Other \_\_\_\_\_  
 Slight  Moderate  Strong

**Notes**  
 Thin?  Lacustrine?  Sand/gravel bed?

**Sample Remarks**  
 Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



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**APPENDIX V**  
**LABORATORY ANALYTICAL REPORTS**

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-87591-1

Client Project/Site: Arconic, Inc. - Elliott Ditch

For:

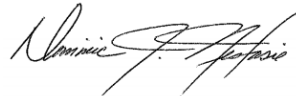
Civil & Environmental Consultants Inc

2704 Cherokee Farm Way

Suite 101

Knoxville, Tennessee 37920

Attn: Matt Bruck



Authorized for release by:

11/15/2017 2:36:59 PM

Dominic Nestasie, Manager of Project Management

(412)963-7058

[dominic.nestasie@testamericainc.com](mailto:dominic.nestasie@testamericainc.com)

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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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# Definitions/Glossary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

### General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Job ID: 240-87591-1**

**Laboratory: TestAmerica Canton**

## Narrative

### Job Narrative 240-87591-1

#### Receipt:

The samples were received on 11/7/2017 at 5:00 PM; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 4 coolers at time of receipt were 0.4° C, 1.0° C, 1.4° C and 5.0° C.

#### PCB's:

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.82-SOL04-(0.13-0.5) (240-87591-48), ED-0060.SL01-(0-0.19') (240-87591-53), ED-00.47-SL04-(0-0.80') (240-87591-60), ED-00.47-SL03-(0-0.77') (240-87591-61), ED-00.47-SL03-(0-0.77')-FD (240-87591-62) and ED-00.47-SL01-(0-0.5') (240-87591-63).

The following sample was diluted due to abundance of target analytes: ED-00.51-SL03-(0-0.5') (240-87591-55). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The %RPD between the primary and confirmation column exceeded 40% for Aroclor 1248 for the following sample: ED-00.60-SL03-(0-0.89') (240-87591-51). Due to sample matrix, the lower value has been reported and qualified in accordance with the laboratory's SOP.

The %RPD between the primary and confirmation column exceeded 40% for 1254 for the following samples: ED-00.25-SL04-(0-0.5') (240-87591-73) and ED-00.25-SL04-(0.5-1.0') (240-87591-74). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: ED-00.25-SL03-(0-0.5') (240-87591-77), ED-00.25-SL03-(0.5-1.0') (240-87591-78), ED-00.08-SL04-(0.67-0.86) (240-87591-88) and (MB 240-302635/19-A). These results have been reported and qualified.

The following samples were diluted due to the abundance of target analytes: ED-00.25-SL02-(0-0.5') (240-87591-79), ED-00.25-SL02-(0-0.5')-FD (240-87591-80), ED-00.25-SL02-(1.0-1.5') (240-87591-82), ED-00.08-SL03-(0-0.5') (240-87591-83), ED-00.08-SL03-(0.5-0.97') (240-87591-84), ED-00.08-SL03-(0.97-1.47') (240-87591-85), ED-00.08-SL03-(1.5-2.0') (240-87591-86), (240-87591-B-85-B MS) and (240-87591-B-85-C MSD)

The following samples were diluted to bring the concentration of target analytes within the calibration range: ED-00.25-SL02-(0-0.5') (240-87591-79), ED-00.25-SL02-(0-0.5')-FD (240-87591-80), ED-00.25-SL02-(1.0-1.5') (240-87591-82), ED-00.08-SL03-(0-0.5') (240-87591-83), ED-00.08-SL03-(0.5-0.97') (240-87591-84), ED-00.08-SL03-(0.97-1.47') (240-87591-85), ED-00.08-SL03-(1.5-2.0') (240-87591-86), (240-87591-B-85-B MS) and (240-87591-B-85-C MSD). Elevated reporting limits (RLs) are provided.

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.25-SL02-(0-0.5') (240-87591-79), ED-00.25-SL02-(0-0.5')-FD (240-87591-80), ED-00.25-SL02-(0.5-1.0') (240-87591-81), ED-00.25-SL02-(1.0-1.5') (240-87591-82), ED-00.08-SL03-(0-0.5') (240-87591-83), ED-00.08-SL03-(0.5-0.97') (240-87591-84), ED-00.08-SL03-(0.97-1.47') (240-87591-85) and ED-00.08-SL03-(1.5-2.0') (240-87591-86). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The matrix spike duplicate (MSD) recoveries for preparation batch 240-302635 and analytical batch 240-302905 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.82-SL01-(0-0.22') (240-87591-125) and ED-00.82-SL01-(0.22-0.5') (240-87591-126). The samples have been quantified and reported using the best overall Aroclor/standard

# Case Narrative

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Job ID: 240-87591-1 (Continued)

### Laboratory: TestAmerica Canton (Continued)

pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The Internal standard (ISTD) response for the following sample exceeded the control limit on Column CLP-2 0.53mm ID: (CCVIS 240-303214/28). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

The %RPD between the primary and confirmation column exceeded 40% for 1254 for the following samples: ED-00.60-SD02-(2.39-2.63') (240-87591-25), ED-00.72-SD03-(2.06-2.40') (240-87591-28) and ED-00.72-SD03-(2.40-3.50') (240-87591-29). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The %RPD between the primary and confirmation column exceeded 40% for 1260 for the following sample: ED.01.03-SD02-(0-0.98) (240-87591-36). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The Decachlorobiphenyl surrogate in the continuing calibration verification (CCV) failed criteria. The Aroclors in the CCVIS passed criteria and all the samples passed surrogate. After careful evaluation the data is reported.

ED-00.72-SD03-(3.84-4.05') (240-87591-31), ED-00.72-SD03-(4.05-4.30') (240-87591-32), ED-00.72-SD03-(2.40-3.50)-FD (240-87591-33), ED-00.82-SD02-(0.39-0.70') (240-87591-35) and ED-01.49-SD03-(0-0.70') (240-87591-46)

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.60-SD02-(0-1.76') (240-87591-22), ED-00.60-SD02-(1.76-2.22') (240-87591-23), ED-00.60-SD02-(2.22-2.39') (240-87591-24), ED-00.60-SD02-(2.39-2.63') (240-87591-25), ED-00.60-SD02-(2.63-3.30') (240-87591-26), ED-00.72-SD03-(0-2.06') (240-87591-27), ED-00.72-SD03-(2.06-2.40') (240-87591-28), ED-00.72-SD03-(2.40-3.50') (240-87591-29), ED-00.72-SD03-(3.50-3.84') (240-87591-30), ED-00.72-SD03-(3.84-4.05') (240-87591-31), ED-00.72-SD03-(4.05-4.30') (240-87591-32), ED-00.72-SD03-(2.40-3.50)-FD (240-87591-33), ED.01.03-SD02-(0-0.98) (240-87591-36), ED-01.03-SD02-(0.98-1.65') (240-87591-38), ED-01.03-SD02-(0.98-1.65')-FD (240-87591-39) and ED-01.03-SD02-(1.87-2.25') (240-87591-41). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.60-SD02-(0-1.76') (240-87591-22), ED-00.60-SD02-(1.76-2.22') (240-87591-23), ED-00.60-SD02-(2.22-2.39') (240-87591-24), ED-00.60-SD02-(2.39-2.63') (240-87591-25), ED-00.60-SD02-(2.63-3.30') (240-87591-26), ED-00.72-SD03-(0-2.06') (240-87591-27), ED-00.72-SD03-(2.06-2.40') (240-87591-28), ED-00.72-SD03-(2.40-3.50') (240-87591-29), ED-00.72-SD03-(3.50-3.84') (240-87591-30), ED-00.72-SD03-(3.84-4.05') (240-87591-31), ED-00.72-SD03-(4.05-4.30') (240-87591-32), ED-00.72-SD03-(2.40-3.50)-FD (240-87591-33), ED-00.82-SD02-(0.39-0.70') (240-87591-35), ED.01.03-SD02-(0-0.98) (240-87591-36), ED-01.03-SD02-(0.98-1.65') (240-87591-38), ED-01.03-SD02-(0.98-1.65')-FD (240-87591-39), ED-01.03-SD02-(1.65-1.87') (240-87591-40), ED-01.03-SD02-(1.87-2.25') (240-87591-41) and ED-01.49-SD03-(0-0.70') (240-87591-46).

The following samples were diluted due to the abundance of target analytes: ED-00.60-SD02-(1.76-2.22') (240-87591-23), ED-00.60-SD02-(2.22-2.39') (240-87591-24), ED-00.60-SD02-(2.63-3.30') (240-87591-26), ED-00.72-SD03-(2.40-3.50') (240-87591-29), ED-00.72-SD03-(3.50-3.84') (240-87591-30), ED-00.72-SD03-(3.84-4.05') (240-87591-31), ED-00.72-SD03-(4.05-4.30') (240-87591-32), ED-00.72-SD03-(2.40-3.50)-FD (240-87591-33), ED-01.03-SD02-(0.98-1.65') (240-87591-38), ED-01.03-SD02-(0.98-1.65')-FD (240-87591-39), ED-01.03-SD02-(1.65-1.87') (240-87591-40) and ED-01.03-SD02-(1.87-2.25') (240-87591-41)

The following samples were diluted to bring the concentration of target analytes within the calibration range: ED-00.60-SD02-(1.76-2.22') (240-87591-23), ED-00.60-SD02-(2.22-2.39') (240-87591-24), ED-00.60-SD02-(2.63-3.30') (240-87591-26), ED-00.72-SD03-(2.40-3.50') (240-87591-29), ED-00.72-SD03-(3.50-3.84') (240-87591-30), ED-00.72-SD03-(3.84-4.05') (240-87591-31), ED-00.72-SD03-(4.05-4.30') (240-87591-32), ED-00.72-SD03-(2.40-3.50)-FD (240-87591-33), ED-01.03-SD02-(0.98-1.65') (240-87591-38), ED-01.03-SD02-(0.98-1.65')-FD (240-87591-39), ED-01.03-SD02-(1.65-1.87') (240-87591-40) and ED-01.03-SD02-(1.87-2.25') (240-87591-41). Elevated reporting limits (RLs) are provided.

The MS/MSD were reported at a different dilution than the parent sample. The MS/MSD was diluted to bring target analytes within range. ED-00.82-SD02-(0-0.39') (240-87591-34[MS]) and ED-00.82-SD02-(0-0.39') (240-87591-34[MSD])

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 240-303098 and analytical batch 240-303135 were

## Case Narrative

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

### Job ID: 240-87591-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The %RPD between the primary and confirmation column exceeded 40% for 1248 for the following sample: ED-00.51-SD02-(0.68-1.65') (240-87591-20). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The following samples appear to contain polychlorinated biphenyls (PCBs); however, the Aroclor patterns of the PCBs in the samples are altered and do not directly match the laboratory's individual Aroclor standards used for instrument calibration: ED-00.51-SD02-(1.65-1.75') (240-87591-21), ED-01.22-SD02-(0.17-0.29') (240-87591-44), ED-01.37-SD02-(0-0.9') (240-87591-45) and SOIL-SED DRUM (240-87591-131). These altered PCB patterns may be caused by weathering, other environmental processes, and/or contributions from the presence of multiple Aroclors resulting in overlapping PCB patterns. The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with the reported results.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.51-SD02-(0.68-1.65') (240-87591-20), ED-00.51-SD02-(1.65-1.75') (240-87591-21), ED-00.82-SD02-(0-0.39') (240-87591-34), ED-00.82-SD02-(0-0.39') (240-87591-34[MS]), ED-00.82-SD02-(0-0.39') (240-87591-34[MSD]), ED-01.14-SD02-(0-1.05') (240-87591-42), ED-01.22-SD02-(0-0.17') (240-87591-43), ED-01.22-SD02-(0.17-0.29') (240-87591-44), ED-01.37-SD02-(0-0.9') (240-87591-45) and SOIL-SED DRUM (240-87591-131).

The Internal standard (ISTD) response for the following samples exceeded the control limit on Column CLP-1 0.53mm ID: ED-00.08-SD02-(0-0.45') (240-87591-1) and ED-00.08-SD02-(0.45-.75') (240-87591-2). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.08-SD02-(0.45-.75') (240-87591-2), ED-00.08-SD02-(0.75-1.4') (240-87591-3), ED-00.08-SD02-(0.75-1.4')-FD (240-87591-4), ED-00.08-SD02-(1.4-2.03') (240-87591-5), ED-00.25-SD01-(0.0-0.57') (240-87591-6), ED-00.25-SD01-(0.57-3.51') (240-87591-7), ED-00.25-SD01-(3.51-4.3') (240-87591-8), ED-00.25-SD01-(3.51-4.3')-DUP (240-87591-9), ED-00.39-SD02-(0-2.20') (240-87591-10), ED-00.39-SD02-(0-2.20') (240-87591-10[MS]), ED-00.39-SD02-(0-2.20') (240-87591-10[MSD]), ED-00.39-SD02-(2.20-2.41') (240-87591-11), ED-00.39-SD02-(2.41-3.54') (240-87591-12), ED-00.39-SD02-(3.54-4.30') (240-87591-13), ED-00.47-SD02-(0-0.33') (240-87591-14), ED-00.47-SD02-(33-1.46') (240-87591-15), ED-00.47-SD02-(1.46-1.96') (240-87591-16), ED-00.47-SD02-(1.96-3.13') (240-87591-17), ED-00.51-SD02-(0-0.36') (240-87591-18) and ED-00.51-SD02-(0.36-0.68') (240-87591-19).

The following samples were diluted due to the abundance of target analytes: ED-00.08-SD02-(1.4-2.03') (240-87591-5) and ED-00.25-SD01-(3.51-4.3')-DUP (240-87591-9)

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.08-SD02-(0-0.45') (240-87591-1), ED-00.08-SD02-(0.75-1.4') (240-87591-3), ED-00.08-SD02-(0.75-1.4')-FD (240-87591-4), ED-00.25-SD01-(0.0-0.57') (240-87591-6), ED-00.25-SD01-(3.51-4.3') (240-87591-8), ED-00.25-SD01-(3.51-4.3')-DUP (240-87591-9), ED-00.39-SD02-(2.20-2.41') (240-87591-11), ED-00.39-SD02-(2.41-3.54') (240-87591-12), ED-00.39-SD02-(3.54-4.30') (240-87591-13), ED-00.47-SD02-(0-0.33') (240-87591-14), ED-00.47-SD02-(33-1.46') (240-87591-15), ED-00.47-SD02-(1.46-1.96') (240-87591-16), ED-00.47-SD02-(1.96-3.13') (240-87591-17), ED-00.51-SD02-(0-0.36') (240-87591-18) and ED-00.51-SD02-(0.36-0.68') (240-87591-19). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: WATER DRUM (240-87591-130). These results have been reported and qualified.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-0060.SL01-(0.19-1.0') (240-87591-54), ED-00.39-SL03-(0.98-1.17') (240-87591-69), ED-00.08-SL01-(0-0.5') (240-87591-91), ED-00.08-SL01-(0-0.5') (240-87591-91[MS]), ED-00.08-SL01-(0-0.5') (240-87591-91[MSD]), ED-00.08-SL01-(0.5-1.0') (240-87591-92), ED-00.08-SL01-(1.0-1.86') (240-87591-93), ED-01.37-SL03-(0-0.27') (240-87591-95) and ED-00.72-SL02-(0-0.5) (240-87591-103).

# Case Narrative

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Job ID: 240-87591-1 (Continued)

### Laboratory: TestAmerica Canton (Continued)

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-0060.SL01-(0.19-1.0') (240-87591-54), ED-00.39-SL03-(0.98-1.17') (240-87591-69), ED-00.39-SL01-(0.5-1.0') (240-87591-72), ED-00.08-SL01-(0-0.5') (240-87591-91), ED-01.37-SL03-(0-0.27') (240-87591-95), ED-01.37-SL03-(0.27-0.92') (240-87591-96), ED-01.37-SL03-(0.92-1.07') (240-87591-97), ED-01.37-SL03-(1.07-2.0') (240-87591-98) and ED-00.72-SL02-(0-0.5) (240-87591-103). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The %RPD between the primary and confirmation column exceeded 40% for 1260 for the following sample: ED-00.08-SL01-(0-0.5') (240-87591-91). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.72-SL02-(0.5-1.0') (240-87591-104), ED-01.14-SL03-(0-0.5') (240-87591-108), ED-01.49-SL02-(0.5-1.0') (240-87591-112), ED-01.03-SL03-(0-0.21') (240-87591-115) and ED-00.82-SL03-(0.5-1.0') (240-87591-118).

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.72-SL02-(0.5-1.0') (240-87591-104), ED-01.24-SL01-(0.87-1.0') (240-87591-107), ED-01.49-SL02-(0-0.5') (240-87591-111), ED-01.49-SL02-(0.5-1.0') (240-87591-112), ED-01.03-SL03-(0-0.21') (240-87591-115), ED-00.82-SL03-(0-0.5') (240-87591-117), ED-00.82-SL03-(0.5-1.0') (240-87591-118), ED-00.72-SL04-(0-0.11') (240-87591-119) and ED-00.72-SL04-(0.11-0.47') (240-87591-120). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: ED-00.82-SL03-(0.5-1.0') (240-87591-118). These results have been reported and qualified.

The following samples appear to contain polychlorinated biphenyls (PCBs); however, the Aroclor patterns of the PCBs in the samples are altered and do not directly match the laboratory's individual Aroclor standards used for instrument calibration: ED-00.39-SL03-(0-0.69')-FD (240-87591-67), ED-00.39-SL03-(0.69-0.98') (240-87591-68), ED-00.39-SL03-(1.17-1.5') (240-87591-70) and ED-00.39-SL01-(0-0.5') (240-87591-71). These altered PCB patterns may be caused by weathering, other environmental processes, and/or contributions from the presence of multiple Aroclors resulting in overlapping PCB patterns. The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with the reported results.

The %RPD between the primary and confirmation column exceeded 40% for the following samples: ED-00.39-SL03-(0-0.69')-FD (240-87591-67) and ED-00.39-SL01-(0-0.5') (240-87591-71). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.39-SL03-(0-0.69')-FD (240-87591-67).

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 240-303095 and analytical batch 240-303440 were outside control limits. Sample target interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.60-SD02-(0-1.76') (240-87591-22[MS]), ED-00.60-SD02-(0-1.76') (240-87591-22[MSD]) and ED.01.03-SD02-(0-0.98)-FD (240-87591-37).

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly



# Case Narrative

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Job ID: 240-87591-1 (Continued)

### Laboratory: TestAmerica Canton (Continued)

match any of the laboratory's Aroclor standards used for instrument calibration: ED.01.03-SD02-(0-0.98)-FD (240-87591-37). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The following samples were diluted due to the abundance of target analytes: ED-00.60-SD02-(0-1.76') (240-87591-22[MS]), ED-00.60-SD02-(0-1.76') (240-87591-22[MSD]) and ED.01.03-SD02-(0-0.98)-FD (240-87591-37)

The following samples were diluted to bring the concentration of target analytes within the calibration range: ED-00.60-SD02-(0-1.76') (240-87591-22[MS]), ED-00.60-SD02-(0-1.76') (240-87591-22[MSD]) and ED.01.03-SD02-(0-0.98)-FD (240-87591-37). Elevated reporting limits (RLs) are provided.

The Internal standard (ISTD) response for the following samples exceeded the control limit on Column CLP-2 0.53mm ID: (CCV 240-303311/5) and (CCV 240-303311/3). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-01.14-SL01-(0-0.5') (240-87591-129), ED-01.14-SL01-(0-0.5') (240-87591-129[MS]) and ED-01.14-SL01-(0-0.5') (240-87591-129[MSD]).

The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-01.14-SL01-(0-0.5') (240-87591-129). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The following samples were diluted due to the abundance of target analytes: ED-00.72-SL02-(1.0-1.5') (240-87591-105) and ED-01.24-SL01-(0-0.87') (240-87591-106)

The following sample were diluted to bring the concentration of target analytes within the calibration range: ED-00.72-SL02-(1.0-1.5') (240-87591-105) and ED-01.24-SL01-(0-0.87') (240-87591-106). Elevated reporting limits (RLs) are provided.

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.72-SL02-(1.0-1.5') (240-87591-105) and ED-01.24-SL01-(0-0.87') (240-87591-106). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.72-SL02-(1.0-1.5') (240-87591-105).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry:

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep :

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Method Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

**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 CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



# Sample Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-87591-1	ED-00.08-SD02-(0-0.45')	Sediment	10/30/17 11:20	11/07/17 17:00
240-87591-2	ED-00.08-SD02-(0.45-.75')	Sediment	10/30/17 11:25	11/07/17 17:00
240-87591-3	ED-00.08-SD02-(0.75-1.4')	Sediment	10/30/17 11:30	11/07/17 17:00
240-87591-4	ED-00.08-SD02-(0.75-1.4')-FD	Sediment	10/30/17 11:30	11/07/17 17:00
240-87591-5	ED-00.08-SD02-(1.4-2.03')	Sediment	10/30/17 11:40	11/07/17 17:00
240-87591-6	ED-00.25-SD01-(0.0-57')	Sediment	11/01/17 11:46	11/07/17 17:00
240-87591-7	ED-00.25-SD01-(0.57-3.51')	Sediment	11/01/17 12:01	11/07/17 17:00
240-87591-8	ED-00.25-SD01-(3.51-4.3')	Sediment	11/01/17 12:19	11/07/17 17:00
240-87591-9	ED-00.25-SD01-(3.51-4.3')-DUP	Sediment	11/01/17 12:19	11/07/17 17:00
240-87591-10	ED-00.39-SD02-(0-2.20')	Sediment	11/01/17 13:35	11/07/17 17:00
240-87591-11	ED-00.39-SD02-(2.20-2.41')	Sediment	11/01/17 13:40	11/07/17 17:00
240-87591-12	ED-00.39-SD02-(2.41-3.54')	Sediment	11/01/17 13:45	11/07/17 17:00
240-87591-13	ED-00.39-SD02-(3.54-4.30')	Sediment	11/01/17 14:00	11/07/17 17:00
240-87591-14	ED-00.47-SD02-(0-0.33')	Sediment	10/30/17 14:10	11/07/17 17:00
240-87591-15	ED-00.47-SD02-(33-1.46')	Sediment	10/30/17 14:15	11/07/17 17:00
240-87591-16	ED-00.47-SD02-(1.46-1.96')	Sediment	10/30/17 14:20	11/07/17 17:00
240-87591-17	ED-00.47-SD02-(1.96-3.13')	Sediment	10/30/17 14:25	11/07/17 17:00
240-87591-18	ED-00.51-SD02-(0-0.36')	Sediment	11/01/17 14:40	11/07/17 17:00
240-87591-19	ED-00.51-SD02-(0.36-0.68')	Sediment	11/01/17 14:45	11/07/17 17:00
240-87591-20	ED-00.51-SD02-(0.68-1.65')	Sediment	11/01/17 14:50	11/07/17 17:00
240-87591-21	ED-00.51-SD02-(1.65-1.75')	Sediment	11/01/17 14:55	11/07/17 17:00
240-87591-22	ED-00.60-SD02-(0-1.76')	Sediment	10/31/17 11:40	11/07/17 17:00
240-87591-23	ED-00.60-SD02-(1.76-2.22')	Sediment	10/31/17 11:41	11/07/17 17:00
240-87591-24	ED-00.60-SD02-(2.22-2.39')	Sediment	10/31/17 11:42	11/07/17 17:00
240-87591-25	ED-00.60-SD02-(2.39-2.63')	Sediment	10/31/17 11:43	11/07/17 17:00
240-87591-26	ED-00.60-SD02-(2.63-3.30')	Sediment	10/31/17 11:44	11/07/17 17:00
240-87591-27	ED-00.72-SD03-(0-2.06')	Sediment	10/31/17 13:15	11/07/17 17:00
240-87591-28	ED-00.72-SD03-(2.06-2.40')	Sediment	10/31/17 13:25	11/07/17 17:00
240-87591-29	ED-00.72-SD03-(2.40-3.50')	Sediment	10/31/17 13:30	11/07/17 17:00
240-87591-30	ED-00.72-SD03-(3.50-3.84')	Sediment	10/31/17 13:35	11/07/17 17:00
240-87591-31	ED-00.72-SD03-(3.84-4.05')	Sediment	10/31/17 13:40	11/07/17 17:00
240-87591-32	ED-00.72-SD03-(4.05-4.30')	Sediment	10/31/17 13:45	11/07/17 17:00
240-87591-33	ED-00.72-SD03-(2.40-3.50)-FD	Sediment	10/31/17 13:30	11/07/17 17:00
240-87591-34	ED-00.82-SD02-(0-0.39')	Sediment	10/31/17 10:50	11/07/17 17:00
240-87591-35	ED-00.82-SD02-(0.39-0.70')	Sediment	10/31/17 10:55	11/07/17 17:00
240-87591-36	ED.01.03-SD02-(0-0.98)	Sediment	10/30/17 17:05	11/07/17 17:00
240-87591-37	ED.01.03-SD02-(0-0.98)-FD	Sediment	10/30/17 17:05	11/07/17 17:00
240-87591-38	ED-01.03-SD02-(0.98-1.65')	Sediment	10/30/17 17:10	11/07/17 17:00
240-87591-39	ED-01.03-SD02-(0.98-1.65')-FD	Sediment	10/30/17 17:10	11/07/17 17:00
240-87591-40	ED-01.03-SD02-(1.65-1.87')	Sediment	10/30/17 17:30	11/07/17 17:00
240-87591-41	ED-01.03-SD02-(1.87-2.25')	Sediment	10/30/17 17:35	11/07/17 17:00
240-87591-42	ED-01.14-SD02-(0-1.05')	Sediment	11/01/17 09:24	11/07/17 17:00
240-87591-43	ED-01.22-SD02-(0-0.17')	Sediment	11/01/17 10:50	11/07/17 17:00
240-87591-44	ED-01.22-SD02-(0.17-0.29')	Sediment	11/01/17 10:55	11/07/17 17:00
240-87591-45	ED-01.37-SD02-(0-0.9')	Sediment	11/02/17 09:50	11/07/17 17:00
240-87591-46	ED-01.49-SD03-(0-0.70')	Sediment	10/31/17 10:23	11/07/17 17:00
240-87591-47	ED-00.82-SOL04-(0-0.13')	Solid	10/31/17 16:34	11/07/17 17:00
240-87591-48	ED-00.82-SOL04-(0.13-0.5)	Solid	10/31/17 16:35	11/07/17 17:00
240-87591-49	ED-00.72-SL01-(0-0.50')	Solid	10/31/17 14:05	11/07/17 17:00
240-87591-50	ED-00.72-SL01-(0.50-1.0')	Solid	10/31/17 14:13	11/07/17 17:00
240-87591-51	ED-00.60-SL03-(0-0.89')	Solid	10/31/17 13:23	11/07/17 17:00
240-87591-52	ED-00.60-SL03-(0.89-1.0')	Solid	10/31/17 13:29	11/07/17 17:00
240-87591-53	ED-0060.SL01-(0-0.19')	Solid	10/31/17 13:41	11/07/17 17:00

TestAmerica Canton

# Sample Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-87591-54	ED-0060.SL01-(0.19-1.0')	Solid	10/31/17 13:49	11/07/17 17:00
240-87591-55	ED-00.51-SL03-(0-0.5')	Solid	10/31/17 12:05	11/07/17 17:00
240-87591-56	ED-00.51-SL03-(0.5-1.0')	Solid	10/31/17 12:12	11/07/17 17:00
240-87591-57	ED-00.51-SL03-(0-0.5')-FD	Solid	10/31/17 12:05	11/07/17 17:00
240-87591-58	ED-00.51-SL01-(0-0.5')	Solid	10/31/17 11:35	11/07/17 17:00
240-87591-59	ED-00.51.SL01-(0.5-1.0')	Solid	10/31/17 11:41	11/07/17 17:00
240-87591-60	ED-00.47-SL04-(0-0.80')	Solid	10/31/17 10:46	11/07/17 17:00
240-87591-61	ED-00.47-SL03-(0-0.77')	Solid	10/31/17 10:23	11/07/17 17:00
240-87591-62	ED-00.47-SL03-(0-0.77')-FD	Solid	10/31/17 10:23	11/07/17 17:00
240-87591-63	ED-00.47-SL01-(0-0.5')	Solid	10/31/17 10:04	11/07/17 17:00
240-87591-64	ED-00.39-SL04-(0-0.50')	Solid	10/31/17 09:02	11/07/17 17:00
240-87591-65	ED-00.39-SL04-(0.50-1.0')	Solid	10/31/17 09:06	11/07/17 17:00
240-87591-66	ED-00.39-SL03-(0-0.69')	Solid	10/31/17 08:31	11/07/17 17:00
240-87591-67	ED-00.39-SL03-(0-0.69')-FD	Solid	10/31/17 08:31	11/07/17 17:00
240-87591-68	ED-00.39-SL03-(0.69-0.98')	Solid	10/31/17 08:37	11/07/17 17:00
240-87591-69	ED-00.39-SL03-(0.98-1.17')	Solid	10/31/17 08:40	11/07/17 17:00
240-87591-70	ED-00.39-SL03-(1.17-1.5')	Solid	10/31/17 08:44	11/07/17 17:00
240-87591-71	ED-00.39-SL01-(0-0.5')	Solid	10/31/17 08:11	11/07/17 17:00
240-87591-72	ED-00.39-SL01-(0.5-1.0')	Solid	10/31/17 08:17	11/07/17 17:00
240-87591-73	ED-00.25-SL04-(0-0.5')	Solid	10/30/17 14:54	11/07/17 17:00
240-87591-74	ED-00.25-SL04-(0.5-1.0')	Solid	10/30/17 15:01	11/07/17 17:00
240-87591-75	ED-00.25-SL04-(1.0-1.5')	Solid	10/30/17 15:20	11/07/17 17:00
240-87591-76	ED-00.25-SL04-(1.5-2.0')	Solid	10/30/17 15:27	11/07/17 17:00
240-87591-77	ED-00.25-SL03-(0.0.5')	Solid	10/30/17 16:30	11/07/17 17:00
240-87591-78	ED-00.25-SL03-(0.5-1.0')	Solid	10/30/17 16:51	11/07/17 17:00
240-87591-79	ED-00.25-SL02-(0-0.5')	Solid	10/30/17 16:01	11/07/17 17:00
240-87591-80	ED-00.25-SL02-(0-0.5')-FD	Solid	10/30/17 16:01	11/07/17 17:00
240-87591-81	ED-00.25-SL02-(0.5-1.0')	Solid	10/30/17 16:09	11/07/17 17:00
240-87591-82	ED-00.25-SL02-(1.0-1.5')	Solid	10/30/17 16:10	11/07/17 17:00
240-87591-83	ED-00.08-SL03-(0-0.5')	Solid	10/30/17 12:20	11/07/17 17:00
240-87591-84	ED-00.08-SL03-(0.5-0.97')	Solid	10/30/17 12:33	11/07/17 17:00
240-87591-85	ED-00.08-SL03-(0.97-1.47')	Solid	10/30/17 12:45	11/07/17 17:00
240-87591-86	ED-00.08-SL03-(1.5-2.0')	Solid	10/30/17 12:53	11/07/17 17:00
240-87591-87	ED-00.08-SL04-(0-0.67)	Solid	10/30/17 13:18	11/07/17 17:00
240-87591-88	ED-00.08-SL04-(0.67-0.86)	Solid	10/30/17 13:27	11/07/17 17:00
240-87591-89	ED-00.08-SL04-(0.86-1.36)	Solid	10/30/17 13:39	11/07/17 17:00
240-87591-90	ED-00.08-SL04-(1.5-2.0')	Solid	10/30/17 13:44	11/07/17 17:00
240-87591-91	ED-00.08-SL01-(0-0.5')	Solid	10/30/17 11:07	11/07/17 17:00
240-87591-92	ED-00.08-SL01-(0.5-1.0')	Solid	10/30/17 11:16	11/07/17 17:00
240-87591-93	ED-00.08-SL01-(1.0-1.86')	Solid	10/30/17 11:22	11/07/17 17:00
240-87591-94	ED-00.08-SL01-(1.86-2.0')	Solid	10/30/17 11:34	11/07/17 17:00
240-87591-95	ED-01.37-SL03-(0-0.27')	Solid	11/02/17 09:25	11/07/17 17:00
240-87591-96	ED-01.37-SL03-(0.27-0.92')	Solid	11/02/17 09:26	11/07/17 17:00
240-87591-97	ED-01.37-SL03-(0.92-1.07')	Solid	11/02/17 09:28	11/07/17 17:00
240-87591-98	ED-01.37-SL03-(1.07-2.0')	Solid	11/02/17 09:30	11/07/17 17:00
240-87591-99	ED-01.49-SL04-(0-0.5')	Solid	11/01/17 14:10	11/07/17 17:00
240-87591-100	ED-01.49-SL04-(0.5-1.0')	Solid	11/01/17 14:17	11/07/17 17:00
240-87591-101	ED-01.49-SL04-(1.0-1.81')	Solid	11/01/17 14:27	11/07/17 17:00
240-87591-102	ED-01.49-SL04-(1.81-2.0')	Solid	11/01/17 14:33	11/07/17 17:00
240-87591-103	ED-00.72-SL02-(0-0.5)	Solid	10/31/17 14:50	11/07/17 17:00
240-87591-104	ED-00.72-SL02-(0.5-1.0')	Solid	10/31/17 14:57	11/07/17 17:00
240-87591-105	ED-00.72-SL02-(1.0-1.5')	Solid	10/31/17 15:04	11/07/17 17:00
240-87591-106	ED-01.24-SL01-(0-0.87')	Solid	11/01/17 11:26	11/07/17 17:00

TestAmerica Canton

# Sample Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-87591-107	ED-01.24-SL01-(0.87-1.0')	Solid	11/01/17 11:44	11/07/17 17:00
240-87591-108	ED-01.14-SL03-(0-0.5')	Solid	11/01/17 10:22	11/07/17 17:00
240-87591-109	ED-01.14-SL03-(0.5-1.0')	Solid	11/01/17 10:29	11/07/17 17:00
240-87591-110	ED-01.14-SL03-(0.5-1.0')-FD	Solid	11/01/17 10:29	11/07/17 17:00
240-87591-111	ED-01.49-SL02-(0-0.5')	Solid	11/01/17 13:50	11/07/17 17:00
240-87591-112	ED-01.49-SL02-(0.5-1.0')	Solid	11/01/17 13:55	11/07/17 17:00
240-87591-113	ED-01.37-SL01-(0-0.9')	Solid	11/02/17 09:11	11/07/17 17:00
240-87591-114	ED-01.37-SL01-(0-0.9')-FD	Solid	11/02/17 09:11	11/07/17 17:00
240-87591-115	ED-01.03-SL03-(0-0.21')	Solid	10/31/17 17:05	11/07/17 17:00
240-87591-116	ED-01.03-SL03-(0.21-1.0')	Solid	10/31/17 17:13	11/07/17 17:00
240-87591-117	ED-00.82-SL03-(0-0.5')	Solid	10/31/17 16:11	11/07/17 17:00
240-87591-118	ED-00.82-SL03-(0.5-1.0')	Solid	10/31/17 16:15	11/07/17 17:00
240-87591-119	ED-00.72-SL04-(0-0.11')	Solid	10/31/17 15:39	11/07/17 17:00
240-87591-120	ED-00.72-SL04-(0.11-0.47')	Solid	10/31/17 15:40	11/07/17 17:00
240-87591-121	ED-00.72-SL04-(0.47-1.0')	Solid	10/31/17 15:46	11/07/17 17:00
240-87591-122	ED-01.49-SL01-(0-0.5')	Solid	11/01/17 13:40	11/07/17 17:00
240-87591-123	ED-01.49-SL01-(0-0.5')-FD	Solid	11/01/17 13:40	11/07/17 17:00
240-87591-124	ED-01.24-SL03-(0-0.5')	Solid	11/01/17 12:03	11/07/17 17:00
240-87591-125	ED-00.82-SL01-(0-0.22')	Solid	10/31/17 16:04	11/07/17 17:00
240-87591-126	ED-00.82-SL01-(0.22-0.5')	Solid	10/31/17 16:05	11/07/17 17:00
240-87591-127	ED-01.03-SL01-(0-0.5')	Solid	11/01/17 09:32	11/07/17 17:00
240-87591-128	ED-01.03-SL01-(0-0.5')-FD	Solid	11/01/17 09:32	11/07/17 17:00
240-87591-129	ED-01.14-SL01-(0-0.5')	Solid	11/01/17 10:01	11/07/17 17:00
240-87591-130	WATER DRUM	Water	11/01/17 16:26	11/07/17 17:00
240-87591-131	SOIL-SED DRUM	Sediment	11/03/17 12:21	11/07/17 17:00
240-87591-132	EQUIP RINSATE	Water	11/02/17 16:58	11/07/17 17:00
240-87591-133	ED-00.72-SL01-(0-0.5')-FD	Solid	10/31/17 14:05	11/07/17 17:00

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.08-SD02-(0-0.45')

## Lab Sample ID: 240-87591-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	682		90.8	30.9	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	682		90.8	43.6	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.08-SD02-(0.45-.75')

## Lab Sample ID: 240-87591-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4310		458	156	ug/Kg	5	☒	8082A	Total/NA
Aroclor-1260	169	J	458	165	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	4480		458	220	ug/Kg	5	☒	8082A	Total/NA

## Client Sample ID: ED-00.08-SD02-(0.75-1.4')

## Lab Sample ID: 240-87591-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1140		62.1	21.1	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	53.7	J	62.1	22.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1190		62.1	29.8	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.08-SD02-(0.75-1.4')-FD

## Lab Sample ID: 240-87591-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1150		61.4	20.9	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	58.2	J	61.4	22.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1210		61.4	29.5	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.08-SD02-(1.4-2.03')

## Lab Sample ID: 240-87591-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	7730		664	226	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	7730		664	319	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-00.25-SD01-(0.0-57')

## Lab Sample ID: 240-87591-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	481		62.9	21.4	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	481		62.9	30.2	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.25-SD01-(0.57-3.51')

## Lab Sample ID: 240-87591-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	296		59.3	20.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	296		59.3	28.5	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.25-SD01-(3.51-4.3')

## Lab Sample ID: 240-87591-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	13500		627	251	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1254	3370	p	627	175	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	18600		627	301	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-00.25-SD01-(3.51-4.3')-DUP

## Lab Sample ID: 240-87591-9

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.25-SD01-(3.51-4.3')-DUP (Continued)

Lab Sample ID: 240-87591-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	12300		623	249	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1254	1330	p	623	175	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	14500		623	299	ug/Kg	10	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SD02-(0-2.20')

Lab Sample ID: 240-87591-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	914		63.8	21.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	914		63.8	30.6	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SD02-(2.20-2.41')

Lab Sample ID: 240-87591-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2770		296	101	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2770		296	142	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SD02-(2.41-3.54')

Lab Sample ID: 240-87591-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2890		329	112	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2890		329	158	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SD02-(3.54-4.30')

Lab Sample ID: 240-87591-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4640		372	126	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	139	J	372	134	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	4780		372	179	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.47-SD02-(0-0.33')

Lab Sample ID: 240-87591-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1090		63.0	21.4	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	48.6	J	63.0	22.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1140		63.0	30.3	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.47-SD02-(33-1.46')

Lab Sample ID: 240-87591-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2740		409	139	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	149	J	409	147	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2890		409	196	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.47-SD02-(1.46-1.96')

Lab Sample ID: 240-87591-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1380		66.6	22.6	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	81.5		66.6	24.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1460		66.6	32.0	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.47-SD02-(1.96-3.13')

## Lab Sample ID: 240-87591-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2480		322	109	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	2480		322	154	ug/Kg	5	☒	8082A	Total/NA

## Client Sample ID: ED-00.51-SD02-(0-0.36')

## Lab Sample ID: 240-87591-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	616		63.1	21.4	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	27.8	J p	63.1	22.7	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	644		63.1	30.3	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.51-SD02-(0.36-0.68')

## Lab Sample ID: 240-87591-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1310		80.2	27.3	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	42.6	J p	80.2	28.9	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1350		80.2	38.5	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.51-SD02-(0.68-1.65')

## Lab Sample ID: 240-87591-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	552	p	115	39.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	552	p	115	55.0	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.51-SD02-(1.65-1.75')

## Lab Sample ID: 240-87591-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	953		89.3	30.4	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	57.6	J	89.3	32.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1010		89.3	42.9	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.60-SD02-(0-1.76')

## Lab Sample ID: 240-87591-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1030		58.1	19.8	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	25.4	J	58.1	20.9	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1060		58.1	27.9	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.60-SD02-(1.76-2.22')

## Lab Sample ID: 240-87591-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	23800		3090	1050	ug/Kg	50	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	23800		3090	1480	ug/Kg	50	☒	8082A	Total/NA

## Client Sample ID: ED-00.60-SD02-(2.22-2.39')

## Lab Sample ID: 240-87591-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	8090		1270	507	ug/Kg	20	☒	8082A	Total/NA
Aroclor-1254	1190	J	1270	355	ug/Kg	20	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	9280		1270	608	ug/Kg	20	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton



# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.60-SD02-(2.39-2.63')

## Lab Sample ID: 240-87591-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	507		62.5	25.0	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1254	57.9	J p	62.5	17.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	565		62.5	30.0	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.60-SD02-(2.63-3.30')

## Lab Sample ID: 240-87591-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	4420		586	234	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1254	444	J	586	164	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	4860		586	281	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SD03-(0-2.06')

## Lab Sample ID: 240-87591-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	836		62.6	21.3	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	44.6	J	62.6	22.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	881		62.6	30.1	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SD03-(2.06-2.40')

## Lab Sample ID: 240-87591-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1450		60.7	24.3	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1254	157	p	60.7	17.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1610		60.7	29.1	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SD03-(2.40-3.50')

## Lab Sample ID: 240-87591-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	12100		615	246	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1254	1960	p	615	172	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	14100		615	295	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SD03-(3.50-3.84')

## Lab Sample ID: 240-87591-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	6570		616	246	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1254	1010		616	173	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	7580		616	296	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SD03-(3.84-4.05')

## Lab Sample ID: 240-87591-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	6980		590	236	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1254	1440		590	165	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	8420		590	283	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SD03-(4.05-4.30')

## Lab Sample ID: 240-87591-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	4540		561	224	ug/Kg	10	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.72-SD03-(4.05-4.30') (Continued)

Lab Sample ID: 240-87591-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	640		561	157	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5180		561	269	ug/Kg	10	☼	8082A	Total/NA

## Client Sample ID: ED-00.72-SD03-(2.40-3.50)-FD

Lab Sample ID: 240-87591-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	11000		623	249	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1254	1710		623	174	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	12700		623	299	ug/Kg	10	☼	8082A	Total/NA

## Client Sample ID: ED-00.82-SD02-(0-0.39')

Lab Sample ID: 240-87591-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	436		62.0	21.1	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	436		62.0	29.8	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.82-SD02-(0.39-0.70')

Lab Sample ID: 240-87591-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	336		61.6	20.9	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	336		61.6	29.5	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED.01.03-SD02-(0-0.98)

Lab Sample ID: 240-87591-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1580		60.3	24.1	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	47.5	J p	60.3	21.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1630		60.3	28.9	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED.01.03-SD02-(0-0.98)-FD

Lab Sample ID: 240-87591-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1760		123	41.7	ug/Kg	2	☼	8082A	Total/NA
Aroclor-1260	52.7	J	123	44.1	ug/Kg	2	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1810		123	58.8	ug/Kg	2	☼	8082A	Total/NA

## Client Sample ID: ED-01.03-SD02-(0.98-1.65')

Lab Sample ID: 240-87591-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	39900		3110	1240	ug/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	39900		3110	1490	ug/Kg	50	☼	8082A	Total/NA

## Client Sample ID: ED-01.03-SD02-(0.98-1.65')-FD

Lab Sample ID: 240-87591-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	17100		3020	1210	ug/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	17100		3020	1450	ug/Kg	50	☼	8082A	Total/NA

## Client Sample ID: ED-01.03-SD02-(1.65-1.87')

Lab Sample ID: 240-87591-40

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-01.03-SD02-(1.65-1.87') (Continued)

Lab Sample ID: 240-87591-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	16000		3050	1040	ug/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	16000		3050	1460	ug/Kg	50	☼	8082A	Total/NA

## Client Sample ID: ED-01.03-SD02-(1.87-2.25')

Lab Sample ID: 240-87591-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1790		348	139	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1254	239	J	348	97.5	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2030		348	167	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-01.14-SD02-(0-1.05')

Lab Sample ID: 240-87591-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	618		63.0	21.4	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	35.8	J	63.0	22.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	654		63.0	30.3	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-01.22-SD02-(0-0.17')

Lab Sample ID: 240-87591-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	539		59.5	20.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	539		59.5	28.6	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-01.22-SD02-(0.17-0.29')

Lab Sample ID: 240-87591-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	279		62.7	21.3	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	279		62.7	30.1	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-01.37-SD02-(0-0.9')

Lab Sample ID: 240-87591-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1460		63.0	21.4	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	45.1	J	63.0	22.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1510		63.0	30.3	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-01.49-SD03-(0-0.70')

Lab Sample ID: 240-87591-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	420		58.8	20.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	420		58.8	28.2	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.82-SOL04-(0-0.13')

Lab Sample ID: 240-87591-47

No Detections.

## Client Sample ID: ED-00.82-SOL04-(0.13-0.5)

Lab Sample ID: 240-87591-48

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.72-SL01-(0-0.50')

Lab Sample ID: 240-87591-49

No Detections.

## Client Sample ID: ED-00.72-SL01-(0.50-1.0')

Lab Sample ID: 240-87591-50

No Detections.

## Client Sample ID: ED-00.60-SL03-(0-0.89')

Lab Sample ID: 240-87591-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	25.7	J p	61.3	20.8	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	50.9	J	61.3	29.4	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.60-SL03-(0.89-1.0')

Lab Sample ID: 240-87591-52

No Detections.

## Client Sample ID: ED-0060.SL01-(0-0.19')

Lab Sample ID: 240-87591-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	213		62.3	17.5	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	213		62.3	29.9	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-0060.SL01-(0.19-1.0')

Lab Sample ID: 240-87591-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	187		56.5	19.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	187		56.5	27.1	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.51-SL03-(0-0.5')

Lab Sample ID: 240-87591-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2680		296	101	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2680		296	142	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.51-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	6440		567	193	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	6440		567	272	ug/Kg	10	☼	8082A	Total/NA

## Client Sample ID: ED-00.51-SL03-(0-0.5')-FD

Lab Sample ID: 240-87591-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5520		576	196	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5520		576	277	ug/Kg	10	☼	8082A	Total/NA

## Client Sample ID: ED-00.51-SL01-(0-0.5')

Lab Sample ID: 240-87591-58

No Detections.

## Client Sample ID: ED-00.51.SL01-(0.5-1.0')

Lab Sample ID: 240-87591-59

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.47-SL04-(0-0.80')

Lab Sample ID: 240-87591-60

No Detections.

## Client Sample ID: ED-00.47-SL03-(0-0.77')

Lab Sample ID: 240-87591-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	371		56.4	19.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	371		56.4	27.1	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.47-SL03-(0-0.77')-FD

Lab Sample ID: 240-87591-62

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	748		61.0	20.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	748		61.0	29.3	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.47-SL01-(0-0.5')

Lab Sample ID: 240-87591-63

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	200		56.4	19.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	200		56.4	27.1	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SL04-(0-0.50')

Lab Sample ID: 240-87591-64

No Detections.

## Client Sample ID: ED-00.39-SL04-(0.50-1.0')

Lab Sample ID: 240-87591-65

No Detections.

## Client Sample ID: ED-00.39-SL03-(0-0.69')

Lab Sample ID: 240-87591-66

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5000		309	105	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5000		309	148	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SL03-(0-0.69')-FD

Lab Sample ID: 240-87591-67

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	6090		610	207	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1260	389	J p	610	220	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	6840		610	293	ug/Kg	10	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SL03-(0.69-0.98')

Lab Sample ID: 240-87591-68

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	579		55.9	19.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	579		55.9	26.8	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SL03-(0.98-1.17')

Lab Sample ID: 240-87591-69

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5020		626	213	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1260	774		626	225	ug/Kg	10	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.39-SL03-(0.98-1.17') (Continued)

Lab Sample ID: 240-87591-69

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Polychlorinated biphenyls, Total	5790		626	301	ug/Kg	10	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SL03-(1.17-1.5')

Lab Sample ID: 240-87591-70

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	114		58.8	20.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	114		58.8	28.2	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SL01-(0-0.5')

Lab Sample ID: 240-87591-71

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	94.1	p	58.4	19.8	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	94.1	p	58.4	28.0	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.39-SL01-(0.5-1.0')

Lab Sample ID: 240-87591-72

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	126		59.7	20.3	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	126		59.7	28.7	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.25-SL04-(0-0.5')

Lab Sample ID: 240-87591-73

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	65.0	p	63.3	17.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	65.0	p	63.3	30.4	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.25-SL04-(0.5-1.0')

Lab Sample ID: 240-87591-74

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	43.5	J p	60.7	17.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	43.5	J p	60.7	29.1	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.25-SL04-(1.0-1.5')

Lab Sample ID: 240-87591-75

No Detections.

## Client Sample ID: ED-00.25-SL04-(1.5-2.0')

Lab Sample ID: 240-87591-76

No Detections.

## Client Sample ID: ED-00.25-SL03-(0.0.5')

Lab Sample ID: 240-87591-77

No Detections.

## Client Sample ID: ED-00.25-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-78

No Detections.

## Client Sample ID: ED-00.25-SL02-(0-0.5')

Lab Sample ID: 240-87591-79

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.25-SL02-(0-0.5') (Continued)

## Lab Sample ID: 240-87591-79

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4140		312	106	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	502		312	112	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	4640		312	150	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.25-SL02-(0-0.5')-FD

## Lab Sample ID: 240-87591-80

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4710		308	105	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	541		308	111	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5250		308	148	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.25-SL02-(0.5-1.0')

## Lab Sample ID: 240-87591-81

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	687		56.2	19.1	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	85.3		56.2	20.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	772		56.2	27.0	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.25-SL02-(1.0-1.5')

## Lab Sample ID: 240-87591-82

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1600		121	41.2	ug/Kg	2	☼	8082A	Total/NA
Aroclor-1260	168		121	43.6	ug/Kg	2	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1770		121	58.2	ug/Kg	2	☼	8082A	Total/NA

## Client Sample ID: ED-00.08-SL03-(0-0.5')

## Lab Sample ID: 240-87591-83

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	7150		596	203	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1260	843		596	215	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	7990		596	286	ug/Kg	10	☼	8082A	Total/NA

## Client Sample ID: ED-00.08-SL03-(0.5-0.97')

## Lab Sample ID: 240-87591-84

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1930		108	36.7	ug/Kg	2	☼	8082A	Total/NA
Aroclor-1260	129		108	38.9	ug/Kg	2	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2060		108	51.9	ug/Kg	2	☼	8082A	Total/NA

## Client Sample ID: ED-00.08-SL03-(0.97-1..47')

## Lab Sample ID: 240-87591-85

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	66000		6030	2050	ug/Kg	100	☼	8082A	Total/NA
Aroclor-1260	2720	J F1	6030	2170	ug/Kg	100	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	68700		6030	2900	ug/Kg	100	☼	8082A	Total/NA

## Client Sample ID: ED-00.08-SL03-(1.5-2.0')

## Lab Sample ID: 240-87591-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	78300		6240	2120	ug/Kg	100	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.08-SL03-(1.5-2.0') (Continued)

Lab Sample ID: 240-87591-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	4300	J	6240	2250	ug/Kg	100	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	82600		6240	3000	ug/Kg	100	☒	8082A	Total/NA

## Client Sample ID: ED-00.08-SL04-(0-0.67)

Lab Sample ID: 240-87591-87

No Detections.

## Client Sample ID: ED-00.08-SL04-(0.67-0.86)

Lab Sample ID: 240-87591-88

No Detections.

## Client Sample ID: ED-00.08-SL04-(0.86-1.36)

Lab Sample ID: 240-87591-89

No Detections.

## Client Sample ID: ED-00.08-SL04-(1.5-2.0')

Lab Sample ID: 240-87591-90

No Detections.

## Client Sample ID: ED-00.08-SL01-(0-0.5')

Lab Sample ID: 240-87591-91

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	166		62.5	21.3	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	28.5	J p	62.5	22.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	211		62.5	30.0	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.08-SL01-(0.5-1.0')

Lab Sample ID: 240-87591-92

No Detections.

## Client Sample ID: ED-00.08-SL01-(1.0-1.86')

Lab Sample ID: 240-87591-93

No Detections.

## Client Sample ID: ED-00.08-SL01-(1.86-2.0')

Lab Sample ID: 240-87591-94

No Detections.

## Client Sample ID: ED-01.37-SL03-(0-0.27')

Lab Sample ID: 240-87591-95

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	771		63.0	21.4	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	115		63.0	22.7	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	886		63.0	30.3	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.37-SL03-(0.27-0.92')

Lab Sample ID: 240-87591-96

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	159		55.2	18.8	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	159		55.2	26.5	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton



# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-01.37-SL03-(0.92-1.07')

## Lab Sample ID: 240-87591-97

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	237		61.7	21.0	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	28.9	J	61.7	22.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	266		61.7	29.6	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.37-SL03-(1.07-2.0')

## Lab Sample ID: 240-87591-98

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	189		57.4	19.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	189		57.4	27.6	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.49-SL04-(0-0.5')

## Lab Sample ID: 240-87591-99

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	33.6	J	61.1	17.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	33.6	J	61.1	29.3	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.49-SL04-(0.5-1.0')

## Lab Sample ID: 240-87591-100

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	19.6	J	56.7	15.9	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.49-SL04-(1.0-1.81')

## Lab Sample ID: 240-87591-101

No Detections.

## Client Sample ID: ED-01.49-SL04-(1.81-2.0')

## Lab Sample ID: 240-87591-102

No Detections.

## Client Sample ID: ED-00.72-SL02-(0-0.5')

## Lab Sample ID: 240-87591-103

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1440		659	224	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1440		659	317	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SL02-(0.5-1.0')

## Lab Sample ID: 240-87591-104

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1810		67.6	23.0	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	122		67.6	24.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1930		67.6	32.5	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SL02-(1.0-1.5')

## Lab Sample ID: 240-87591-105

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2290		134	45.5	ug/Kg	2	☒	8082A	Total/NA
Aroclor-1260	145		134	48.1	ug/Kg	2	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	2440		134	64.2	ug/Kg	2	☒	8082A	Total/NA

## Client Sample ID: ED-01.24-SL01-(0-0.87')

## Lab Sample ID: 240-87591-106

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-01.24-SL01-(0-0.87') (Continued)

Lab Sample ID: 240-87591-106

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4240		576	196	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1260	407	J	576	207	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	4650		576	277	ug/Kg	10	☼	8082A	Total/NA

## Client Sample ID: ED-01.24-SL01-(0.87-1.0')

Lab Sample ID: 240-87591-107

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	662		54.9	18.7	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	52.8	J	54.9	19.8	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	715		54.9	26.3	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-01.14-SL03-(0-0.5')

Lab Sample ID: 240-87591-108

No Detections.

## Client Sample ID: ED-01.14-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-109

No Detections.

## Client Sample ID: ED-01.14-SL03-(0.5-1.0')-FD

Lab Sample ID: 240-87591-110

No Detections.

## Client Sample ID: ED-01.49-SL02-(0-0.5')

Lab Sample ID: 240-87591-111

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	164		57.2	19.4	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	23.1	J	57.2	20.6	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	187		57.2	27.4	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-01.49-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-112

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	117		57.0	19.4	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	117		57.0	27.4	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-01.37-SL01-(0-0.9')

Lab Sample ID: 240-87591-113

No Detections.

## Client Sample ID: ED-01.37-SL01-(0-0.9')-FD

Lab Sample ID: 240-87591-114

No Detections.

## Client Sample ID: ED-01.03-SL03-(0-0.21')

Lab Sample ID: 240-87591-115

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	72.2		61.7	21.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	72.2		61.7	29.6	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-01.03-SL03-(0.21-1.0')

Lab Sample ID: 240-87591-116

No Detections.

## Client Sample ID: ED-00.82-SL03-(0-0.5')

Lab Sample ID: 240-87591-117

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	70.4		56.1	19.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	70.4		56.1	26.9	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.82-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-118

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1120		78.7	26.8	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	84.8		78.7	28.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1200		78.7	37.8	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SL04-(0-0.11')

Lab Sample ID: 240-87591-119

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	54.7	J	64.9	22.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	54.7	J	64.9	31.1	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SL04-(0.11-0.47')

Lab Sample ID: 240-87591-120

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	24.5	J	55.9	19.0	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.72-SL04-(0.47-1.0')

Lab Sample ID: 240-87591-121

No Detections.

## Client Sample ID: ED-01.49-SL01-(0-0.5')

Lab Sample ID: 240-87591-122

No Detections.

## Client Sample ID: ED-01.49-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-123

No Detections.

## Client Sample ID: ED-01.24-SL03-(0-0.5')

Lab Sample ID: 240-87591-124

No Detections.

## Client Sample ID: ED-00.82-SL01-(0-0.22')

Lab Sample ID: 240-87591-125

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	339		59.5	20.2	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	58.2	J	59.5	21.4	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	397		59.5	28.6	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.82-SL01-(0.22-0.5')

Lab Sample ID: 240-87591-126

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	260		56.0	19.0	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: ED-00.82-SL01-(0.22-0.5') (Continued)

Lab Sample ID: 240-87591-126

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	55.4	J	56.0	20.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	315		56.0	26.9	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-01.03-SL01-(0-0.5')

Lab Sample ID: 240-87591-127

No Detections.

## Client Sample ID: ED-01.03-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-128

No Detections.

## Client Sample ID: ED-01.14-SL01-(0-0.5')

Lab Sample ID: 240-87591-129

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2150		285	97.1	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	337		285	103	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2490		285	137	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: WATER DRUM

Lab Sample ID: 240-87591-130

No Detections.

## Client Sample ID: SOIL-SED DRUM

Lab Sample ID: 240-87591-131

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1220		56.9	19.3	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	87.6		56.9	20.5	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1310		56.9	27.3	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: EQUIP RINSATE

Lab Sample ID: 240-87591-132

No Detections.

## Client Sample ID: ED-00.72-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-133

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SD02-(0-0.45')**

**Lab Sample ID: 240-87591-1**

**Date Collected: 10/30/17 11:20**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 54.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	43.6	U	90.8	43.6	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1221	41.8	U	90.8	41.8	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1232	29.1	U	90.8	29.1	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1242	36.3	U	90.8	36.3	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
<b>Aroclor-1248</b>	<b>682</b>		90.8	30.9	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1254	25.4	U	90.8	25.4	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1260	32.7	U	90.8	32.7	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1262	14.5	U	90.8	14.5	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1268	36.3	U	90.8	36.3	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
<b>Polychlorinated biphenyls, Total</b>	<b>682</b>		90.8	43.6	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		14 - 128	11/10/17 12:42	11/13/17 20:24	1
DCB Decachlorobiphenyl	80		10 - 132	11/10/17 12:42	11/13/17 20:24	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>54.2</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>45.8</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SD02-(0.45-.75')**

**Lab Sample ID: 240-87591-2**

**Date Collected: 10/30/17 11:25**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 54.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	220	U	458	220	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1221	211	U	458	211	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1232	147	U	458	147	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1242	183	U	458	183	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
<b>Aroclor-1248</b>	<b>4310</b>		458	156	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1254	128	U	458	128	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
<b>Aroclor-1260</b>	<b>169</b>	<b>J</b>	458	165	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1262	73.3	U	458	73.3	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1268	183	U	458	183	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
<b>Polychlorinated biphenyls, Total</b>	<b>4480</b>		458	220	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		14 - 128	11/10/17 12:42	11/13/17 20:42	5
DCB Decachlorobiphenyl	100		10 - 132	11/10/17 12:42	11/13/17 20:42	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>54.0</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>46.0</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SD02-(0.75-1.4')**

**Lab Sample ID: 240-87591-3**

**Date Collected: 10/30/17 11:30**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.8	U	62.1	29.8	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1221	28.5	U	62.1	28.5	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1232	19.9	U	62.1	19.9	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1242	24.8	U	62.1	24.8	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
<b>Aroclor-1248</b>	<b>1140</b>		62.1	21.1	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1254	17.4	U	62.1	17.4	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
<b>Aroclor-1260</b>	<b>53.7</b>	<b>J</b>	62.1	22.3	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1262	9.93	U	62.1	9.93	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1268	24.8	U	62.1	24.8	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
<b>Polychlorinated biphenyls, Total</b>	<b>1190</b>		62.1	29.8	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/10/17 12:42	11/13/17 21:00	1
DCB Decachlorobiphenyl	82		10 - 132	11/10/17 12:42	11/13/17 21:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.1</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>19.9</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SD02-(0.75-1.4')-FD**

**Lab Sample ID: 240-87591-4**

**Date Collected: 10/30/17 11:30**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.5	U	61.4	29.5	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1221	28.3	U	61.4	28.3	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1232	19.7	U	61.4	19.7	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1242	24.6	U	61.4	24.6	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
<b>Aroclor-1248</b>	<b>1150</b>		61.4	20.9	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1254	17.2	U	61.4	17.2	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
<b>Aroclor-1260</b>	<b>58.2</b>	<b>J</b>	61.4	22.1	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1262	9.83	U	61.4	9.83	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1268	24.6	U	61.4	24.6	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
<b>Polychlorinated biphenyls, Total</b>	<b>1210</b>		61.4	29.5	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	11/10/17 12:42	11/13/17 21:19	1
DCB Decachlorobiphenyl	81		10 - 132	11/10/17 12:42	11/13/17 21:19	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.0</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>20.0</b>		0.1	0.1	%			11/08/17 07:28	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SD02-(1.4-2.03')**

**Lab Sample ID: 240-87591-5**

**Date Collected: 10/30/17 11:40**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 75.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	319	U	664	319	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1221	305	U	664	305	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1232	212	U	664	212	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1242	266	U	664	266	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
<b>Aroclor-1248</b>	<b>7730</b>		664	226	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1254	186	U	664	186	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1260	239	U	664	239	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1262	106	U	664	106	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1268	266	U	664	266	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
<b>Polychlorinated biphenyls, Total</b>	<b>7730</b>		664	319	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		14 - 128	11/10/17 12:42	11/13/17 21:37	10
DCB Decachlorobiphenyl	151	X	10 - 132	11/10/17 12:42	11/13/17 21:37	10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>75.4</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>24.6</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SD01-(0.0-57')**

**Lab Sample ID: 240-87591-6**

**Date Collected: 11/01/17 11:46**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.2	U	62.9	30.2	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1221	28.9	U	62.9	28.9	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1232	20.1	U	62.9	20.1	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1242	25.2	U	62.9	25.2	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
<b>Aroclor-1248</b>	<b>481</b>		62.9	21.4	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1254	17.6	U	62.9	17.6	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1260	22.6	U	62.9	22.6	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1262	10.1	U	62.9	10.1	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1268	25.2	U	62.9	25.2	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
<b>Polychlorinated biphenyls, Total</b>	<b>481</b>		62.9	30.2	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	80		14 - 128	11/10/17 12:42	11/13/17 21:55	1
DCB Decachlorobiphenyl	99		10 - 132	11/10/17 12:42	11/13/17 21:55	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.0</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>22.0</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SD01-(0.57-3.51')**

**Lab Sample ID: 240-87591-7**

**Date Collected: 11/01/17 12:01**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.5	U	59.3	28.5	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1221	27.3	U	59.3	27.3	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1232	19.0	U	59.3	19.0	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1242	23.7	U	59.3	23.7	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
<b>Aroclor-1248</b>	<b>296</b>		59.3	20.2	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1254	16.6	U	59.3	16.6	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1260	21.4	U	59.3	21.4	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1262	9.49	U	59.3	9.49	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1268	23.7	U	59.3	23.7	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
<b>Polychlorinated biphenyls, Total</b>	<b>296</b>		59.3	28.5	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	11/10/17 12:42	11/13/17 22:14	1
DCB Decachlorobiphenyl	79		10 - 132	11/10/17 12:42	11/13/17 22:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.5</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>16.5</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SD01-(3.51-4.3')**

**Lab Sample ID: 240-87591-8**

**Date Collected: 11/01/17 12:19**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.4**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	301	U	627	301	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1221	288	U	627	288	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1232	201	U	627	201	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
<b>Aroclor-1242</b>	<b>13500</b>		627	251	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1248	213	U	627	213	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
<b>Aroclor-1254</b>	<b>3370</b>	<b>p</b>	627	175	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1260	226	U	627	226	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1262	100	U	627	100	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1268	251	U	627	251	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
<b>Polychlorinated biphenyls, Total</b>	<b>18600</b>		627	301	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	166	X	14 - 128	11/10/17 12:42	11/13/17 22:32	10
Tetrachloro-m-xylene	82	p	14 - 128	11/10/17 12:42	11/13/17 22:32	10
DCB Decachlorobiphenyl	40	p	10 - 132	11/10/17 12:42	11/13/17 22:32	10
DCB Decachlorobiphenyl	107		10 - 132	11/10/17 12:42	11/13/17 22:32	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.4</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>21.6</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SD01-(3.51-4.3')-DUP**

**Lab Sample ID: 240-87591-9**

**Date Collected: 11/01/17 12:19**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.7**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	299	U	623	299	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1221	287	U	623	287	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1232	199	U	623	199	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
<b>Aroclor-1242</b>	<b>12300</b>		623	249	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1248	212	U	623	212	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
<b>Aroclor-1254</b>	<b>1330</b>	<b>p</b>	623	175	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1260	224	U	623	224	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1262	99.7	U	623	99.7	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1268	249	U	623	249	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
<b>Polychlorinated biphenyls, Total</b>	<b>14500</b>		623	299	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	203	X	14 - 128	11/10/17 12:42	11/13/17 22:50	10
Tetrachloro-m-xylene	106	p	14 - 128	11/10/17 12:42	11/13/17 22:50	10
DCB Decachlorobiphenyl	53	p	10 - 132	11/10/17 12:42	11/13/17 22:50	10
DCB Decachlorobiphenyl	148	X	10 - 132	11/10/17 12:42	11/13/17 22:50	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.7</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>20.3</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SD02-(0-2.20')**

**Lab Sample ID: 240-87591-10**

**Date Collected: 11/01/17 13:35**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.6	U	63.8	30.6	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1221	29.3	U	63.8	29.3	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1232	20.4	U	63.8	20.4	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1242	25.5	U	63.8	25.5	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
<b>Aroclor-1248</b>	<b>914</b>		63.8	21.7	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1254	17.9	U	63.8	17.9	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1260	23.0	U	63.8	23.0	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1262	10.2	U	63.8	10.2	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1268	25.5	U	63.8	25.5	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
<b>Polychlorinated biphenyls, Total</b>	<b>914</b>		63.8	30.6	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	76		14 - 128	11/10/17 12:42	11/13/17 23:09	1
DCB Decachlorobiphenyl	92		10 - 132	11/10/17 12:42	11/13/17 23:09	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.2</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>21.8</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SD02-(2.20-2.41')**

**Lab Sample ID: 240-87591-11**

**Date Collected: 11/01/17 13:40**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	142	U	296	142	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1221	136	U	296	136	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1232	94.8	U	296	94.8	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1242	119	U	296	119	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
<b>Aroclor-1248</b>	<b>2770</b>		296	101	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1254	83.0	U	296	83.0	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1260	107	U	296	107	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1262	47.4	U	296	47.4	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1268	119	U	296	119	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
<b>Polychlorinated biphenyls, Total</b>	<b>2770</b>		296	142	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		14 - 128	11/10/17 12:42	11/14/17 00:04	5
DCB Decachlorobiphenyl	128		10 - 132	11/10/17 12:42	11/14/17 00:04	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.1</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>16.9</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SD02-(2.41-3.54')**

**Lab Sample ID: 240-87591-12**

**Date Collected: 11/01/17 13:45**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 75.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	158	U	329	158	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1221	151	U	329	151	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1232	105	U	329	105	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1242	132	U	329	132	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
<b>Aroclor-1248</b>	<b>2890</b>		329	112	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1254	92.1	U	329	92.1	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1260	118	U	329	118	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1262	52.6	U	329	52.6	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1268	132	U	329	132	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
<b>Polychlorinated biphenyls, Total</b>	<b>2890</b>		329	158	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	11/10/17 12:42	11/14/17 00:22	5
DCB Decachlorobiphenyl	100		10 - 132	11/10/17 12:42	11/14/17 00:22	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>75.0</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>25.0</b>		0.1	0.1	%			11/08/17 07:28	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SD02-(3.54-4.30')**

**Lab Sample ID: 240-87591-13**

**Date Collected: 11/01/17 14:00**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 67.8**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	179	U	372	179	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1221	171	U	372	171	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1232	119	U	372	119	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1242	149	U	372	149	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
<b>Aroclor-1248</b>	<b>4640</b>		372	126	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1254	104	U	372	104	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
<b>Aroclor-1260</b>	<b>139</b>	<b>J</b>	372	134	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1262	59.5	U	372	59.5	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1268	149	U	372	149	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
<b>Polychlorinated biphenyls, Total</b>	<b>4780</b>		372	179	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		14 - 128	11/10/17 12:42	11/14/17 00:41	5
DCB Decachlorobiphenyl	113		10 - 132	11/10/17 12:42	11/14/17 00:41	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>67.8</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>32.2</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.47-SD02-(0-0.33')**

**Lab Sample ID: 240-87591-14**

**Date Collected: 10/30/17 14:10**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 77.7**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.0	30.3	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1221	29.0	U	63.0	29.0	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1232	20.2	U	63.0	20.2	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1242	25.2	U	63.0	25.2	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
<b>Aroclor-1248</b>	<b>1090</b>		63.0	21.4	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1254	17.7	U	63.0	17.7	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
<b>Aroclor-1260</b>	<b>48.6</b>	<b>J</b>	63.0	22.7	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1262	10.1	U	63.0	10.1	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1268	25.2	U	63.0	25.2	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
<b>Polychlorinated biphenyls, Total</b>	<b>1140</b>		63.0	30.3	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		14 - 128	11/10/17 12:42	11/14/17 00:59	1
DCB Decachlorobiphenyl	76		10 - 132	11/10/17 12:42	11/14/17 00:59	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>77.7</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>22.3</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.47-SD02-(33-1.46')**

**Lab Sample ID: 240-87591-15**

**Date Collected: 10/30/17 14:15**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 61.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	196	U	409	196	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1221	188	U	409	188	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1232	131	U	409	131	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1242	163	U	409	163	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
<b>Aroclor-1248</b>	<b>2740</b>		409	139	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1254	114	U	409	114	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
<b>Aroclor-1260</b>	<b>149</b>	<b>J</b>	409	147	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1262	65.4	U	409	65.4	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1268	163	U	409	163	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
<b>Polychlorinated biphenyls, Total</b>	<b>2890</b>		409	196	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/10/17 12:42	11/14/17 01:17	5
DCB Decachlorobiphenyl	87		10 - 132	11/10/17 12:42	11/14/17 01:17	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>61.2</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>38.8</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.47-SD02-(1.46-1.96')**

**Lab Sample ID: 240-87591-16**

**Date Collected: 10/30/17 14:20**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 75.8**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	32.0	U	66.6	32.0	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1221	30.6	U	66.6	30.6	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1232	21.3	U	66.6	21.3	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1242	26.6	U	66.6	26.6	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
<b>Aroclor-1248</b>	<b>1380</b>		66.6	22.6	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1254	18.6	U	66.6	18.6	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
<b>Aroclor-1260</b>	<b>81.5</b>		66.6	24.0	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1262	10.7	U	66.6	10.7	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1268	26.6	U	66.6	26.6	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
<b>Polychlorinated biphenyls, Total</b>	<b>1460</b>		66.6	32.0	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	11/10/17 12:42	11/14/17 02:31	1
DCB Decachlorobiphenyl	71		10 - 132	11/10/17 12:42	11/14/17 02:31	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>75.8</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>24.2</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.47-SD02-(1.96-3.13')**

**Lab Sample ID: 240-87591-17**

**Date Collected: 10/30/17 14:25**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	154	U	322	154	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1221	148	U	322	148	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1232	103	U	322	103	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1242	129	U	322	129	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
<b>Aroclor-1248</b>	<b>2480</b>		322	109	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1254	90.1	U	322	90.1	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1260	116	U	322	116	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1262	51.5	U	322	51.5	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1268	129	U	322	129	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
<b>Polychlorinated biphenyls, Total</b>	<b>2480</b>		322	154	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	11/10/17 12:42	11/14/17 02:49	5
DCB Decachlorobiphenyl	89		10 - 132	11/10/17 12:42	11/14/17 02:49	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.4</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>21.6</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SD02-(0-0.36')**

**Lab Sample ID: 240-87591-18**

**Date Collected: 11/01/17 14:40**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.1	30.3	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1221	29.0	U	63.1	29.0	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1232	20.2	U	63.1	20.2	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1242	25.2	U	63.1	25.2	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
<b>Aroclor-1248</b>	<b>616</b>		63.1	21.4	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1254	17.7	U	63.1	17.7	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
<b>Aroclor-1260</b>	<b>27.8</b>	<b>J p</b>	63.1	22.7	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1262	10.1	U	63.1	10.1	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1268	25.2	U	63.1	25.2	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
<b>Polychlorinated biphenyls, Total</b>	<b>644</b>		63.1	30.3	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	11/10/17 12:42	11/14/17 03:07	1
DCB Decachlorobiphenyl	79		10 - 132	11/10/17 12:42	11/14/17 03:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.0</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>22.0</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SD02-(0.36-0.68')**

**Lab Sample ID: 240-87591-19**

**Date Collected: 11/01/17 14:45**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 62.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	38.5	U	80.2	38.5	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1221	36.9	U	80.2	36.9	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1232	25.7	U	80.2	25.7	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1242	32.1	U	80.2	32.1	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
<b>Aroclor-1248</b>	<b>1310</b>		80.2	27.3	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1254	22.5	U	80.2	22.5	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
<b>Aroclor-1260</b>	<b>42.6</b>	<b>J p</b>	80.2	28.9	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1262	12.8	U	80.2	12.8	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1268	32.1	U	80.2	32.1	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
<b>Polychlorinated biphenyls, Total</b>	<b>1350</b>		80.2	38.5	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	11/10/17 12:42	11/14/17 03:26	1
DCB Decachlorobiphenyl	121		10 - 132	11/10/17 12:42	11/14/17 03:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>62.7</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>37.3</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SD02-(0.68-1.65')**

**Lab Sample ID: 240-87591-20**

**Date Collected: 11/01/17 14:50**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 44.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55.0	U	115	55.0	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1221	52.7	U	115	52.7	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1232	36.7	U	115	36.7	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1242	45.8	U	115	45.8	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
<b>Aroclor-1248</b>	<b>552</b>	<b>p</b>	115	39.0	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1254	32.1	U	115	32.1	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1260	41.2	U	115	41.2	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1262	18.3	U	115	18.3	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1268	45.8	U	115	45.8	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
<b>Polychlorinated biphenyls, Total</b>	<b>552</b>	<b>p</b>	115	55.0	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	48	p	14 - 128	11/11/17 10:25	11/13/17 12:08	1
DCB Decachlorobiphenyl	47	p	10 - 132	11/11/17 10:25	11/13/17 12:08	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>44.5</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>55.5</b>		0.1	0.1	%			11/08/17 07:28	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SD02-(1.65-1.75')**

**Lab Sample ID: 240-87591-21**

**Date Collected: 11/01/17 14:55**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 57.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	42.9	U	89.3	42.9	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1221	41.1	U	89.3	41.1	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1232	28.6	U	89.3	28.6	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1242	35.7	U	89.3	35.7	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
<b>Aroclor-1248</b>	<b>953</b>		89.3	30.4	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1254	25.0	U	89.3	25.0	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
<b>Aroclor-1260</b>	<b>57.6</b>	<b>J</b>	89.3	32.2	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1262	14.3	U	89.3	14.3	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1268	35.7	U	89.3	35.7	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
<b>Polychlorinated biphenyls, Total</b>	<b>1010</b>		89.3	42.9	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		14 - 128	11/11/17 10:25	11/13/17 13:03	1
DCB Decachlorobiphenyl	60	p	10 - 132	11/11/17 10:25	11/13/17 13:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>57.4</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>42.6</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.60-SD02-(0-1.76')**

**Lab Sample ID: 240-87591-22**

**Date Collected: 10/31/17 11:40**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.9	U	58.1	27.9	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1221	26.7	U	58.1	26.7	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1232	18.6	U	58.1	18.6	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1242	23.3	U	58.1	23.3	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
<b>Aroclor-1248</b>	<b>1030</b>		58.1	19.8	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1254	16.3	U	58.1	16.3	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
<b>Aroclor-1260</b>	<b>25.4</b>	<b>J</b>	58.1	20.9	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1262	9.30	U	58.1	9.30	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1268	23.3	U	58.1	23.3	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
<b>Polychlorinated biphenyls, Total</b>	<b>1060</b>		58.1	27.9	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/11/17 09:19	11/13/17 11:54	1
DCB Decachlorobiphenyl	91		10 - 132	11/11/17 09:19	11/13/17 11:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.7</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>16.3</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.60-SD02-(1.76-2.22')**

**Lab Sample ID: 240-87591-23**

**Date Collected: 10/31/17 11:41**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1480	U	3090	1480	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1221	1420	U	3090	1420	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1232	990	U	3090	990	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1242	1240	U	3090	1240	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
<b>Aroclor-1248</b>	<b>23800</b>		3090	1050	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1254	866	U	3090	866	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1260	1110	U	3090	1110	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1262	495	U	3090	495	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1268	1240	U	3090	1240	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
<b>Polychlorinated biphenyls, Total</b>	<b>23800</b>		3090	1480	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	145	X	14 - 128	11/11/17 09:19	11/13/17 12:53	50
DCB Decachlorobiphenyl	51	p	10 - 132	11/11/17 09:19	11/13/17 12:53	50

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.6</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>21.4</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.60-SD02-(2.22-2.39')**

**Lab Sample ID: 240-87591-24**

**Date Collected: 10/31/17 11:42**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	608	U	1270	608	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1221	583	U	1270	583	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1232	405	U	1270	405	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
<b>Aroclor-1242</b>	<b>8090</b>		1270	507	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1248	431	U	1270	431	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
<b>Aroclor-1254</b>	<b>1190</b>	<b>J</b>	1270	355	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1260	456	U	1270	456	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1262	203	U	1270	203	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1268	507	U	1270	507	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
<b>Polychlorinated biphenyls, Total</b>	<b>9280</b>		1270	608	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		14 - 128	11/11/17 09:19	11/13/17 13:12	20
DCB Decachlorobiphenyl	94		10 - 132	11/11/17 09:19	11/13/17 13:12	20

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.7</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>20.3</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.60-SD02-(2.39-2.63')**

**Lab Sample ID: 240-87591-25**

**Date Collected: 10/31/17 11:43**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.3**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.0	U	62.5	30.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1221	28.7	U	62.5	28.7	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1232	20.0	U	62.5	20.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
<b>Aroclor-1242</b>	<b>507</b>		62.5	25.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1248	21.2	U	62.5	21.2	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
<b>Aroclor-1254</b>	<b>57.9 J p</b>		62.5	17.5	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1260	22.5	U	62.5	22.5	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1262	10.0	U	62.5	10.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1268	25.0	U	62.5	25.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
<b>Polychlorinated biphenyls, Total</b>	<b>565</b>		62.5	30.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128	11/11/17 09:19	11/13/17 13:33	1
DCB Decachlorobiphenyl	97		10 - 132	11/11/17 09:19	11/13/17 13:33	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.3</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>19.7</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.60-SD02-(2.63-3.30')**

**Lab Sample ID: 240-87591-26**

**Date Collected: 10/31/17 11:44**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	281	U	586	281	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1221	270	U	586	270	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1232	188	U	586	188	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
<b>Aroclor-1242</b>	<b>4420</b>		586	234	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1248	199	U	586	199	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
<b>Aroclor-1254</b>	<b>444</b>	<b>J</b>	586	164	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1260	211	U	586	211	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1262	93.8	U	586	93.8	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1268	234	U	586	234	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
<b>Polychlorinated biphenyls, Total</b>	<b>4860</b>		586	281	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		14 - 128	11/11/17 09:19	11/13/17 13:54	10
DCB Decachlorobiphenyl	191	X	10 - 132	11/11/17 09:19	11/13/17 13:54	10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.2</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>16.8</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SD03-(0-2.06')**

**Lab Sample ID: 240-87591-27**

**Date Collected: 10/31/17 13:15**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.1	U	62.6	30.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1221	28.8	U	62.6	28.8	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1232	20.0	U	62.6	20.0	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1242	25.1	U	62.6	25.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
<b>Aroclor-1248</b>	<b>836</b>		62.6	21.3	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1254	17.5	U	62.6	17.5	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
<b>Aroclor-1260</b>	<b>44.6</b>	<b>J</b>	62.6	22.5	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1262	10.0	U	62.6	10.0	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1268	25.1	U	62.6	25.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
<b>Polychlorinated biphenyls, Total</b>	<b>881</b>		62.6	30.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/11/17 09:19	11/13/17 14:13	1
DCB Decachlorobiphenyl	88		10 - 132	11/11/17 09:19	11/13/17 14:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.0</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>22.0</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SD03-(2.06-2.40')**

**Lab Sample ID: 240-87591-28**

**Date Collected: 10/31/17 13:25**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 81.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.1	U	60.7	29.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1221	27.9	U	60.7	27.9	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1232	19.4	U	60.7	19.4	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
<b>Aroclor-1242</b>	<b>1450</b>		60.7	24.3	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1248	20.6	U	60.7	20.6	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
<b>Aroclor-1254</b>	<b>157 p</b>		60.7	17.0	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1260	21.8	U	60.7	21.8	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1262	9.71	U	60.7	9.71	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1268	24.3	U	60.7	24.3	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
<b>Polychlorinated biphenyls, Total</b>	<b>1610</b>		60.7	29.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		14 - 128	11/11/17 09:19	11/13/17 14:33	1
DCB Decachlorobiphenyl	84		10 - 132	11/11/17 09:19	11/13/17 14:33	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.9</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>18.1</b>		0.1	0.1	%			11/08/17 07:28	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SD03-(2.40-3.50')**

**Lab Sample ID: 240-87591-29**

**Date Collected: 10/31/17 13:30**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	295	U	615	295	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1221	283	U	615	283	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1232	197	U	615	197	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
<b>Aroclor-1242</b>	<b>12100</b>		615	246	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1248	209	U	615	209	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
<b>Aroclor-1254</b>	<b>1960</b>	<b>p</b>	615	172	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1260	221	U	615	221	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1262	98.4	U	615	98.4	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1268	246	U	615	246	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
<b>Polychlorinated biphenyls, Total</b>	<b>14100</b>		615	295	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	218	X	14 - 128	11/11/17 09:19	11/13/17 14:52	10
DCB Decachlorobiphenyl	128		10 - 132	11/11/17 09:19	11/13/17 14:52	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.2</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>19.8</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SD03-(3.50-3.84')**

**Lab Sample ID: 240-87591-30**

**Date Collected: 10/31/17 13:35**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.7**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	296	U	616	296	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1221	283	U	616	283	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1232	197	U	616	197	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
<b>Aroclor-1242</b>	<b>6570</b>		616	246	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1248	210	U	616	210	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
<b>Aroclor-1254</b>	<b>1010</b>		616	173	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1260	222	U	616	222	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1262	98.6	U	616	98.6	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1268	246	U	616	246	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
<b>Polychlorinated biphenyls, Total</b>	<b>7580</b>		616	296	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	170	X	14 - 128	11/11/17 09:19	11/13/17 15:13	10
DCB Decachlorobiphenyl	114		10 - 132	11/11/17 09:19	11/13/17 15:13	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.7</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>20.3</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SD03-(3.84-4.05')**

**Lab Sample ID: 240-87591-31**

**Date Collected: 10/31/17 13:40**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 82.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	283	U	590	283	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1221	271	U	590	271	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1232	189	U	590	189	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
<b>Aroclor-1242</b>	<b>6980</b>		590	236	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1248	200	U	590	200	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
<b>Aroclor-1254</b>	<b>1440</b>		590	165	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1260	212	U	590	212	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1262	94.3	U	590	94.3	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1268	236	U	590	236	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
<b>Polychlorinated biphenyls, Total</b>	<b>8420</b>		590	283	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	219	X	14 - 128	11/11/17 09:19	11/13/17 16:32	10
DCB Decachlorobiphenyl	122		10 - 132	11/11/17 09:19	11/13/17 16:32	10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>82.6</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>17.4</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SD03-(4.05-4.30')**

**Lab Sample ID: 240-87591-32**

**Date Collected: 10/31/17 13:45**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 86.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	269	U	561	269	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1221	258	U	561	258	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1232	180	U	561	180	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
<b>Aroclor-1242</b>	<b>4540</b>		561	224	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1248	191	U	561	191	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
<b>Aroclor-1254</b>	<b>640</b>		561	157	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1260	202	U	561	202	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1262	89.8	U	561	89.8	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1268	224	U	561	224	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
<b>Polychlorinated biphenyls, Total</b>	<b>5180</b>		561	269	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	171	X	14 - 128	11/11/17 09:19	11/13/17 16:52	10
DCB Decachlorobiphenyl	108		10 - 132	11/11/17 09:19	11/13/17 16:52	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>86.9</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>13.1</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SD03-(2.40-3.50)-FD**

**Lab Sample ID: 240-87591-33**

**Date Collected: 10/31/17 13:30**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	299	U	623	299	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1221	287	U	623	287	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1232	199	U	623	199	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
<b>Aroclor-1242</b>	<b>11000</b>		623	249	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1248	212	U	623	212	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
<b>Aroclor-1254</b>	<b>1710</b>		623	174	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1260	224	U	623	224	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1262	99.7	U	623	99.7	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1268	249	U	623	249	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
<b>Polychlorinated biphenyls, Total</b>	<b>12700</b>		623	299	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	217	X	14 - 128	11/11/17 09:19	11/13/17 17:12	10
DCB Decachlorobiphenyl	108		10 - 132	11/11/17 09:19	11/13/17 17:12	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.0</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>20.0</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.82-SD02-(0-0.39')**

**Lab Sample ID: 240-87591-34**

**Date Collected: 10/31/17 10:50**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 81.7**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.8	U F1	62.0	29.8	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1221	28.5	U	62.0	28.5	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1232	19.8	U	62.0	19.8	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1242	24.8	U	62.0	24.8	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
<b>Aroclor-1248</b>	<b>436</b>		62.0	21.1	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1254	17.4	U	62.0	17.4	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1260	22.3	U	62.0	22.3	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1262	9.92	U	62.0	9.92	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1268	24.8	U	62.0	24.8	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
<b>Polychlorinated biphenyls, Total</b>	<b>436</b>		62.0	29.8	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	11/11/17 10:25	11/13/17 11:14	1
DCB Decachlorobiphenyl	72		10 - 132	11/11/17 10:25	11/13/17 11:14	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.7</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>18.3</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.82-SD02-(0.39-0.70')**

**Lab Sample ID: 240-87591-35**

**Date Collected: 10/31/17 10:55**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.9**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.5	U	61.6	29.5	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1221	28.3	U	61.6	28.3	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1232	19.7	U	61.6	19.7	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1242	24.6	U	61.6	24.6	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
<b>Aroclor-1248</b>	<b>336</b>		61.6	20.9	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1254	17.2	U	61.6	17.2	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1260	22.2	U	61.6	22.2	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1262	9.85	U	61.6	9.85	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1268	24.6	U	61.6	24.6	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
<b>Polychlorinated biphenyls, Total</b>	<b>336</b>		61.6	29.5	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	11/11/17 09:19	11/13/17 17:32	1
DCB Decachlorobiphenyl	78		10 - 132	11/11/17 09:19	11/13/17 17:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.9</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>20.1</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED.01.03-SD02-(0-0.98)**

**Lab Sample ID: 240-87591-36**

**Date Collected: 10/30/17 17:05**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 81.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.9	U	60.3	28.9	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1221	27.7	U	60.3	27.7	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1232	19.3	U	60.3	19.3	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
<b>Aroclor-1242</b>	<b>1580</b>		60.3	24.1	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1248	20.5	U	60.3	20.5	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1254	16.9	U	60.3	16.9	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
<b>Aroclor-1260</b>	<b>47.5</b>	<b>J p</b>	60.3	21.7	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1262	9.64	U	60.3	9.64	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1268	24.1	U	60.3	24.1	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
<b>Polychlorinated biphenyls, Total</b>	<b>1630</b>		60.3	28.9	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	74		14 - 128	11/11/17 09:19	11/13/17 09:54	1
DCB Decachlorobiphenyl	69		10 - 132	11/11/17 09:19	11/13/17 09:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.5</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>18.5</b>		0.1	0.1	%			11/08/17 07:28	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED.01.03-SD02-(0-0.98)-FD**

**Lab Sample ID: 240-87591-37**

**Date Collected: 10/30/17 17:05**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 81.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58.8	U	123	58.8	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1221	56.4	U	123	56.4	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1232	39.2	U	123	39.2	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1242	49.0	U	123	49.0	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
<b>Aroclor-1248</b>	<b>1760</b>		123	41.7	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1254	34.3	U	123	34.3	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
<b>Aroclor-1260</b>	<b>52.7</b>	<b>J</b>	123	44.1	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1262	19.6	U	123	19.6	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1268	49.0	U	123	49.0	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
<b>Polychlorinated biphenyls, Total</b>	<b>1810</b>		123	58.8	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		14 - 128	11/11/17 09:19	11/14/17 22:54	2
DCB Decachlorobiphenyl	108		10 - 132	11/11/17 09:19	11/14/17 22:54	2

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.0</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>19.0</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SD02.-(0.98-1.65')**

**Lab Sample ID: 240-87591-38**

**Date Collected: 10/30/17 17:10**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.8**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1490	U	3110	1490	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1221	1430	U	3110	1430	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1232	995	U	3110	995	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
<b>Aroclor-1242</b>	<b>39900</b>		3110	1240	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1248	1060	U	3110	1060	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1254	870	U	3110	870	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1260	1120	U	3110	1120	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1262	497	U	3110	497	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1268	1240	U	3110	1240	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
<b>Polychlorinated biphenyls, Total</b>	<b>39900</b>		3110	1490	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	578	X	14 - 128	11/11/17 09:19	11/13/17 10:33	50
DCB Decachlorobiphenyl	0	X	10 - 132	11/11/17 09:19	11/13/17 10:33	50

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.8</b>		0.1	0.1	%			11/08/17 07:28	1
<b>Percent Moisture</b>	<b>20.2</b>		0.1	0.1	%			11/08/17 07:28	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SD02-(0.98-1.65')-FD**

**Lab Sample ID: 240-87591-39**

**Date Collected: 10/30/17 17:10**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1450	U	3020	1450	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1221	1390	U	3020	1390	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1232	966	U	3020	966	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
<b>Aroclor-1242</b>	<b>17100</b>		3020	1210	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1248	1030	U	3020	1030	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1254	845	U	3020	845	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1260	1090	U	3020	1090	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1262	483	U	3020	483	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1268	1210	U	3020	1210	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
<b>Polychlorinated biphenyls, Total</b>	<b>17100</b>		3020	1450	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	250	X	14 - 128	11/11/17 09:19	11/13/17 10:53	50
DCB Decachlorobiphenyl	110		10 - 132	11/11/17 09:19	11/13/17 10:53	50

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.9</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>19.1</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SD02-(1.65-1.87')**

**Lab Sample ID: 240-87591-40**

**Date Collected: 10/30/17 17:30**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1460	U	3050	1460	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1221	1400	U	3050	1400	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1232	977	U	3050	977	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1242	1220	U	3050	1220	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
<b>Aroclor-1248</b>	<b>16000</b>		3050	1040	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1254	855	U	3050	855	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1260	1100	U	3050	1100	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1262	488	U	3050	488	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1268	1220	U	3050	1220	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
<b>Polychlorinated biphenyls, Total</b>	<b>16000</b>		3050	1460	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	186	X	14 - 128	11/11/17 09:19	11/13/17 11:13	50
DCB Decachlorobiphenyl	91	p	10 - 132	11/11/17 09:19	11/13/17 11:13	50

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.0</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>20.0</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SD02-(1.87-2.25')**

**Lab Sample ID: 240-87591-41**

**Date Collected: 10/30/17 17:35**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 69.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	167	U	348	167	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1221	160	U	348	160	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1232	111	U	348	111	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
<b>Aroclor-1242</b>	<b>1790</b>		348	139	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1248	118	U	348	118	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
<b>Aroclor-1254</b>	<b>239</b>	<b>J</b>	348	97.5	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1260	125	U	348	125	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1262	55.7	U	348	55.7	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1268	139	U	348	139	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
<b>Polychlorinated biphenyls, Total</b>	<b>2030</b>		348	167	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		14 - 128	11/11/17 09:19	11/13/17 11:33	5
DCB Decachlorobiphenyl	102		10 - 132	11/11/17 09:19	11/13/17 11:33	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>69.9</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>30.1</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.14-SD02-(0-1.05')**

**Lab Sample ID: 240-87591-42**

**Date Collected: 11/01/17 09:24**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.0	30.3	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1221	29.0	U	63.0	29.0	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1232	20.2	U	63.0	20.2	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1242	25.2	U	63.0	25.2	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
<b>Aroclor-1248</b>	<b>618</b>		63.0	21.4	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1254	17.7	U	63.0	17.7	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
<b>Aroclor-1260</b>	<b>35.8</b>	<b>J</b>	63.0	22.7	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1262	10.1	U	63.0	10.1	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1268	25.2	U	63.0	25.2	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
<b>Polychlorinated biphenyls, Total</b>	<b>654</b>		63.0	30.3	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/11/17 10:25	11/13/17 13:22	1
DCB Decachlorobiphenyl	73		10 - 132	11/11/17 10:25	11/13/17 13:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.0</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>17.0</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.22-SD02-(0-0.17')**

**Lab Sample ID: 240-87591-43**

**Date Collected: 11/01/17 10:50**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 82.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.6	U	59.5	28.6	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1221	27.4	U	59.5	27.4	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1232	19.0	U	59.5	19.0	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1242	23.8	U	59.5	23.8	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
<b>Aroclor-1248</b>	<b>539</b>		59.5	20.2	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1254	16.7	U	59.5	16.7	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1260	21.4	U	59.5	21.4	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1262	9.52	U	59.5	9.52	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1268	23.8	U	59.5	23.8	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
<b>Polychlorinated biphenyls, Total</b>	<b>539</b>		59.5	28.6	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	11/11/17 10:25	11/13/17 13:40	1
DCB Decachlorobiphenyl	72	p	10 - 132	11/11/17 10:25	11/13/17 13:40	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>82.9</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>17.1</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.22-SD02-(0.17-0.29')**

**Lab Sample ID: 240-87591-44**

**Date Collected: 11/01/17 10:55**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.1	U	62.7	30.1	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1221	28.8	U	62.7	28.8	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1232	20.1	U	62.7	20.1	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1242	25.1	U	62.7	25.1	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
<b>Aroclor-1248</b>	<b>279</b>		62.7	21.3	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1254	17.6	U	62.7	17.6	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1260	22.6	U	62.7	22.6	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1262	10.0	U	62.7	10.0	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1268	25.1	U	62.7	25.1	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
<b>Polychlorinated biphenyls, Total</b>	<b>279</b>		62.7	30.1	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/11/17 10:25	11/13/17 14:54	1
DCB Decachlorobiphenyl	77		10 - 132	11/11/17 10:25	11/13/17 14:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.7</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>19.3</b>		0.1	0.1	%			11/08/17 07:58	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.37-SD02-(0-0.9')**

**Lab Sample ID: 240-87591-45**

**Date Collected: 11/02/17 09:50**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 81.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.0	30.3	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1221	29.0	U	63.0	29.0	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1232	20.2	U	63.0	20.2	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1242	25.2	U	63.0	25.2	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
<b>Aroclor-1248</b>	<b>1460</b>		63.0	21.4	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1254	17.6	U	63.0	17.6	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
<b>Aroclor-1260</b>	<b>45.1</b>	<b>J</b>	63.0	22.7	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1262	10.1	U	63.0	10.1	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1268	25.2	U	63.0	25.2	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
<b>Polychlorinated biphenyls, Total</b>	<b>1510</b>		63.0	30.3	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		14 - 128	11/11/17 10:25	11/13/17 15:12	1
DCB Decachlorobiphenyl	79		10 - 132	11/11/17 10:25	11/13/17 15:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.5</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>18.5</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SD03-(0-0.70')**

**Lab Sample ID: 240-87591-46**

**Date Collected: 10/31/17 10:23**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.2	U	58.8	28.2	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1221	27.0	U	58.8	27.0	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1232	18.8	U	58.8	18.8	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1242	23.5	U	58.8	23.5	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
<b>Aroclor-1248</b>	<b>420</b>		58.8	20.0	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1254	16.5	U	58.8	16.5	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1260	21.2	U	58.8	21.2	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1262	9.40	U	58.8	9.40	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1268	23.5	U	58.8	23.5	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
<b>Polychlorinated biphenyls, Total</b>	<b>420</b>		58.8	28.2	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	11/11/17 09:19	11/13/17 17:52	1
DCB Decachlorobiphenyl	91		10 - 132	11/11/17 09:19	11/13/17 17:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.5</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>16.5</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.82-SOL04-(0-0.13')**

**Lab Sample ID: 240-87591-47**

**Date Collected: 10/31/17 16:34**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.8	U	59.9	28.8	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1221	27.6	U	59.9	27.6	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1232	19.2	U	59.9	19.2	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1242	24.0	U	59.9	24.0	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1248	20.4	U	59.9	20.4	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1254	16.8	U	59.9	16.8	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1260	21.6	U	59.9	21.6	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1262	9.58	U	59.9	9.58	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1268	24.0	U	59.9	24.0	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Polychlorinated biphenyls, Total	28.8	U	59.9	28.8	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	84		14 - 128	11/09/17 10:58	11/11/17 09:12	1
DCB Decachlorobiphenyl	99		10 - 132	11/09/17 10:58	11/11/17 09:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.5		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	19.5		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.82-SOL04-(0.13-0.5)**

**Lab Sample ID: 240-87591-48**

**Date Collected: 10/31/17 16:35**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 91.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.1	U	52.2	25.1	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1221	24.0	U	52.2	24.0	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1232	16.7	U	52.2	16.7	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1242	20.9	U	52.2	20.9	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1248	17.8	U	52.2	17.8	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1254	14.6	U	52.2	14.6	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1260	18.8	U	52.2	18.8	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1262	8.36	U	52.2	8.36	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1268	20.9	U	52.2	20.9	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Polychlorinated biphenyls, Total	25.1	U	52.2	25.1	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	69		14 - 128	11/09/17 10:58	11/11/17 09:32	1
DCB Decachlorobiphenyl	87		10 - 132	11/09/17 10:58	11/11/17 09:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.2		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	8.8		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL01-(0-0.50')**

**Lab Sample ID: 240-87591-49**

**Date Collected: 10/31/17 14:05**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.9	U	64.4	30.9	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1221	29.6	U	64.4	29.6	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1232	20.6	U	64.4	20.6	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1242	25.7	U	64.4	25.7	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1248	21.9	U	64.4	21.9	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1254	18.0	U	64.4	18.0	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1260	23.2	U	64.4	23.2	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1262	10.3	U	64.4	10.3	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1268	25.7	U	64.4	25.7	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Polychlorinated biphenyls, Total	30.9	U	64.4	30.9	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	75		14 - 128	11/09/17 10:58	11/11/17 09:51	1
DCB Decachlorobiphenyl	95		10 - 132	11/09/17 10:58	11/11/17 09:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.4		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	21.6		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL01-(0.50-1.0')**

**Lab Sample ID: 240-87591-50**

**Date Collected: 10/31/17 14:13**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 76.8**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	32.0	U	66.7	32.0	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1221	30.7	U	66.7	30.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1232	21.4	U	66.7	21.4	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1242	26.7	U	66.7	26.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1248	22.7	U	66.7	22.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1254	18.7	U	66.7	18.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1260	24.0	U	66.7	24.0	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1262	10.7	U	66.7	10.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1268	26.7	U	66.7	26.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Polychlorinated biphenyls, Total	32.0	U	66.7	32.0	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	74		14 - 128	11/09/17 10:58	11/11/17 10:11	1
DCB Decachlorobiphenyl	87		10 - 132	11/09/17 10:58	11/11/17 10:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76.8		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	23.2		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.60-SL03-(0-0.89')**

**Lab Sample ID: 240-87591-51**

**Date Collected: 10/31/17 13:23**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.3**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.4	U	61.3	29.4	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1221	28.2	U	61.3	28.2	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1232	19.6	U	61.3	19.6	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1242	24.5	U	61.3	24.5	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
<b>Aroclor-1248</b>	<b>25.7</b>	<b>J p</b>	61.3	20.8	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1254	17.2	U	61.3	17.2	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1260	22.1	U	61.3	22.1	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1262	9.80	U	61.3	9.80	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1268	24.5	U	61.3	24.5	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
<b>Polychlorinated biphenyls, Total</b>	<b>50.9</b>	<b>J</b>	61.3	29.4	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128	11/09/17 10:58	11/11/17 16:04	1
Tetrachloro-m-xylene	86		14 - 128	11/09/17 10:58	11/11/17 16:04	1
DCB Decachlorobiphenyl	95		10 - 132	11/09/17 10:58	11/11/17 16:04	1
DCB Decachlorobiphenyl	85		10 - 132	11/09/17 10:58	11/11/17 16:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.3</b>		0.1	0.1	%			11/08/17 08:01	1
<b>Percent Moisture</b>	<b>19.7</b>		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.60-SL03-(0.89-1.0')**

**Lab Sample ID: 240-87591-52**

**Date Collected: 10/31/17 13:29**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.4**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.1	U	58.6	28.1	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1221	27.0	U	58.6	27.0	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1232	18.8	U	58.6	18.8	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1242	23.5	U	58.6	23.5	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1248	19.9	U	58.6	19.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1254	16.4	U	58.6	16.4	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1260	21.1	U	58.6	21.1	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1262	9.38	U	58.6	9.38	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1268	23.5	U	58.6	23.5	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Polychlorinated biphenyls, Total	28.1	U	58.6	28.1	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	77		14 - 128	11/09/17 10:58	11/11/17 10:30	1
DCB Decachlorobiphenyl	89		10 - 132	11/09/17 10:58	11/11/17 10:30	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.4		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	15.6		0.1	0.1	%			11/08/17 08:01	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-0060.SL01-(0-0.19')**

**Lab Sample ID: 240-87591-53**

**Date Collected: 10/31/17 13:41**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 81.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.9	U	62.3	29.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1221	28.7	U	62.3	28.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1232	19.9	U	62.3	19.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1242	24.9	U	62.3	24.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1248	21.2	U	62.3	21.2	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
<b>Aroclor-1254</b>	<b>213</b>		62.3	17.5	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1260	22.4	U	62.3	22.4	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1262	9.97	U	62.3	9.97	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1268	24.9	U	62.3	24.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
<b>Polychlorinated biphenyls, Total</b>	<b>213</b>		62.3	29.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	11/09/17 10:58	11/11/17 10:50	1
DCB Decachlorobiphenyl	113		10 - 132	11/09/17 10:58	11/11/17 10:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.4</b>		0.1	0.1	%			11/08/17 08:01	1
<b>Percent Moisture</b>	<b>18.6</b>		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-0060.SL01-(0.19-1.0')**

**Lab Sample ID: 240-87591-54**

**Date Collected: 10/31/17 13:49**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 89.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.1	U	56.5	27.1	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1221	26.0	U	56.5	26.0	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1232	18.1	U	56.5	18.1	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1242	22.6	U	56.5	22.6	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
<b>Aroclor-1248</b>	<b>187</b>		56.5	19.2	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1254	15.8	U	56.5	15.8	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1260	20.4	U	56.5	20.4	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1262	9.05	U	56.5	9.05	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1268	22.6	U	56.5	22.6	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
<b>Polychlorinated biphenyls, Total</b>	<b>187</b>		56.5	27.1	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/10/17 10:03	11/14/17 07:42	1
DCB Decachlorobiphenyl	88		10 - 132	11/10/17 10:03	11/14/17 07:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>89.0</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>11.0</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-55**

**Date Collected: 10/31/17 12:05**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 85.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	142	U	296	142	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1221	136	U	296	136	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1232	94.9	U	296	94.9	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1242	119	U	296	119	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
<b>Aroclor-1248</b>	<b>2680</b>		296	101	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1254	83.0	U	296	83.0	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1260	107	U	296	107	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1262	47.4	U	296	47.4	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1268	119	U	296	119	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
<b>Polychlorinated biphenyls, Total</b>	<b>2680</b>		296	142	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		14 - 128	11/09/17 10:58	11/11/17 11:10	5
DCB Decachlorobiphenyl	0	X	10 - 132	11/09/17 10:58	11/11/17 11:10	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.2</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>14.8</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-56**

**Date Collected: 10/31/17 12:12**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.4**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	272	U	567	272	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1221	261	U	567	261	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1232	181	U	567	181	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1242	227	U	567	227	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
<b>Aroclor-1248</b>	<b>6440</b>		567	193	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1254	159	U	567	159	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1260	204	U	567	204	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1262	90.7	U	567	90.7	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1268	227	U	567	227	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
<b>Polychlorinated biphenyls, Total</b>	<b>6440</b>		567	272	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	11/09/17 10:58	11/11/17 11:30	10
DCB Decachlorobiphenyl	38		10 - 132	11/09/17 10:58	11/11/17 11:30	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.4</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>15.6</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SL03-(0-0.5')-FD**

**Lab Sample ID: 240-87591-57**

**Date Collected: 10/31/17 12:05**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 85.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	277	U	576	277	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1221	265	U	576	265	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1232	184	U	576	184	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1242	231	U	576	231	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
<b>Aroclor-1248</b>	<b>5520</b>		576	196	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1254	161	U	576	161	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1260	208	U	576	208	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1262	92.2	U	576	92.2	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1268	231	U	576	231	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
<b>Polychlorinated biphenyls, Total</b>	<b>5520</b>		576	277	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/09/17 10:58	11/11/17 11:49	10
DCB Decachlorobiphenyl	115		10 - 132	11/09/17 10:58	11/11/17 11:49	10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.0</b>		0.1	0.1	%			11/08/17 07:58	1
<b>Percent Moisture</b>	<b>15.0</b>		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-58**

**Date Collected: 10/31/17 11:35**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 90.6**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.9	U	56.0	26.9	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1221	25.8	U	56.0	25.8	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1232	17.9	U	56.0	17.9	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1242	22.4	U	56.0	22.4	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1248	19.0	U	56.0	19.0	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1254	15.7	U	56.0	15.7	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1260	20.2	U	56.0	20.2	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1262	8.96	U	56.0	8.96	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1268	22.4	U	56.0	22.4	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Polychlorinated biphenyls, Total	26.9	U	56.0	26.9	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	77		14 - 128	11/09/17 10:58	11/11/17 12:09	1
DCB Decachlorobiphenyl	95		10 - 132	11/09/17 10:58	11/11/17 12:09	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.6		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	9.4		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51.SL01-(0.5-1.0')**

**Lab Sample ID: 240-87591-59**

**Date Collected: 10/31/17 11:41**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.1	30.3	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1221	29.0	U	63.1	29.0	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1232	20.2	U	63.1	20.2	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1242	25.2	U	63.1	25.2	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1248	21.5	U	63.1	21.5	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1254	17.7	U	63.1	17.7	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1260	22.7	U	63.1	22.7	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1262	10.1	U	63.1	10.1	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1268	25.2	U	63.1	25.2	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Polychlorinated biphenyls, Total	30.3	U	63.1	30.3	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	79		14 - 128	11/09/17 10:58	11/11/17 12:29	1
DCB Decachlorobiphenyl	93		10 - 132	11/09/17 10:58	11/11/17 12:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.7		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	20.3		0.1	0.1	%			11/08/17 07:58	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.47-SL04-(0-0.80')**

**Lab Sample ID: 240-87591-60**

**Date Collected: 10/31/17 10:46**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.4**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.3	U	61.1	29.3	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1221	28.1	U	61.1	28.1	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1232	19.6	U	61.1	19.6	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1242	24.4	U	61.1	24.4	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1248	20.8	U	61.1	20.8	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1254	17.1	U	61.1	17.1	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1260	22.0	U	61.1	22.0	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1262	9.78	U	61.1	9.78	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1268	24.4	U	61.1	24.4	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Polychlorinated biphenyls, Total	29.3	U	61.1	29.3	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	68		14 - 128	11/09/17 10:58	11/11/17 12:48	1
DCB Decachlorobiphenyl	84		10 - 132	11/09/17 10:58	11/11/17 12:48	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.4		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	21.6		0.1	0.1	%			11/08/17 08:01	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.47-SL03-(0-0.77')**

**Lab Sample ID: 240-87591-61**

**Date Collected: 10/31/17 10:23**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.1	U	56.4	27.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1221	26.0	U	56.4	26.0	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1232	18.1	U	56.4	18.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1242	22.6	U	56.4	22.6	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
<b>Aroclor-1248</b>	<b>371</b>		56.4	19.2	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1254	15.8	U	56.4	15.8	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1260	20.3	U	56.4	20.3	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1262	9.03	U	56.4	9.03	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1268	22.6	U	56.4	22.6	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
<b>Polychlorinated biphenyls, Total</b>	<b>371</b>		56.4	27.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	73		14 - 128	11/09/17 10:58	11/11/17 13:08	1
DCB Decachlorobiphenyl	84		10 - 132	11/09/17 10:58	11/11/17 13:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.7</b>		0.1	0.1	%			11/08/17 08:01	1
<b>Percent Moisture</b>	<b>15.3</b>		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.47-SL03-(0-0.77')-FD**

**Lab Sample ID: 240-87591-62**

**Date Collected: 10/31/17 10:23**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.3	U	61.0	29.3	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1221	28.1	U	61.0	28.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1232	19.5	U	61.0	19.5	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1242	24.4	U	61.0	24.4	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
<b>Aroclor-1248</b>	<b>748</b>		61.0	20.7	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1254	17.1	U	61.0	17.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1260	22.0	U	61.0	22.0	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1262	9.76	U	61.0	9.76	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1268	24.4	U	61.0	24.4	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
<b>Polychlorinated biphenyls, Total</b>	<b>748</b>		61.0	29.3	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	11/09/17 10:58	11/11/17 13:27	1
DCB Decachlorobiphenyl	81		10 - 132	11/09/17 10:58	11/11/17 13:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.6</b>		0.1	0.1	%			11/08/17 08:01	1
<b>Percent Moisture</b>	<b>16.4</b>		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.47-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-63**

**Date Collected: 10/31/17 10:04**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.9**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.1	U	56.4	27.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1221	25.9	U	56.4	25.9	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1232	18.0	U	56.4	18.0	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1242	22.6	U	56.4	22.6	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
<b>Aroclor-1248</b>	<b>200</b>		56.4	19.2	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1254	15.8	U	56.4	15.8	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1260	20.3	U	56.4	20.3	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1262	9.02	U	56.4	9.02	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1268	22.6	U	56.4	22.6	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
<b>Polychlorinated biphenyls, Total</b>	<b>200</b>		56.4	27.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	11/09/17 10:58	11/11/17 13:47	1
DCB Decachlorobiphenyl	88		10 - 132	11/09/17 10:58	11/11/17 13:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.9</b>		0.1	0.1	%			11/08/17 08:01	1
<b>Percent Moisture</b>	<b>15.1</b>		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL04-(0-0.50')**

**Lab Sample ID: 240-87591-64**

**Date Collected: 10/31/17 09:02**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.4	U	63.3	30.4	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1221	29.1	U	63.3	29.1	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1232	20.3	U	63.3	20.3	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1242	25.3	U	63.3	25.3	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1248	21.5	U	63.3	21.5	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1254	17.7	U	63.3	17.7	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1260	22.8	U	63.3	22.8	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1262	10.1	U	63.3	10.1	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1268	25.3	U	63.3	25.3	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Polychlorinated biphenyls, Total	30.4	U	63.3	30.4	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	11/09/17 10:58	11/11/17 14:07	1
DCB Decachlorobiphenyl	12	p	10 - 132	11/09/17 10:58	11/11/17 14:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.2		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	20.8		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL04-(0.50-1.0')**

**Lab Sample ID: 240-87591-65**

**Date Collected: 10/31/17 09:06**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.6	U	61.8	29.6	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1221	28.4	U	61.8	28.4	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1232	19.8	U	61.8	19.8	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1242	24.7	U	61.8	24.7	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1248	21.0	U	61.8	21.0	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1254	17.3	U	61.8	17.3	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1260	22.2	U	61.8	22.2	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1262	9.88	U	61.8	9.88	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1268	24.7	U	61.8	24.7	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Polychlorinated biphenyls, Total	29.6	U	61.8	29.6	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	75		14 - 128	11/09/17 10:58	11/11/17 14:26	1
DCB Decachlorobiphenyl	87		10 - 132	11/09/17 10:58	11/11/17 14:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.2		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	19.8		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL03-(0-0.69')**

**Lab Sample ID: 240-87591-66**

**Date Collected: 10/31/17 08:31**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 81.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	148	U	309	148	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1221	142	U	309	142	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1232	98.8	U	309	98.8	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1242	123	U	309	123	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
<b>Aroclor-1248</b>	<b>5000</b>		309	105	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1254	86.4	U	309	86.4	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1260	111	U	309	111	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1262	49.4	U	309	49.4	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1268	123	U	309	123	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
<b>Polychlorinated biphenyls, Total</b>	<b>5000</b>		309	148	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	82		14 - 128	11/09/17 10:58	11/11/17 14:46	5
DCB Decachlorobiphenyl	94	p	10 - 132	11/09/17 10:58	11/11/17 14:46	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.0</b>		0.1	0.1	%			11/08/17 08:01	1
<b>Percent Moisture</b>	<b>19.0</b>		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL03-(0-0.69')-FD**

**Lab Sample ID: 240-87591-67**

**Date Collected: 10/31/17 08:31**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	293	U	610	293	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1221	281	U	610	281	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1232	195	U	610	195	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1242	244	U	610	244	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
<b>Aroclor-1248</b>	<b>6090</b>		610	207	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1254	171	U	610	171	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
<b>Aroclor-1260</b>	<b>389 J p</b>		610	220	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1262	97.6	U	610	97.6	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1268	244	U	610	244	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
<b>Polychlorinated biphenyls, Total</b>	<b>6840</b>		610	293	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		14 - 128	11/09/17 14:18	11/10/17 16:43	10
Tetrachloro-m-xylene	112		14 - 128	11/09/17 14:18	11/10/17 16:43	10
DCB Decachlorobiphenyl	119		10 - 132	11/09/17 14:18	11/10/17 16:43	10
DCB Decachlorobiphenyl	105		10 - 132	11/09/17 14:18	11/10/17 16:43	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.1</b>		0.1	0.1	%			11/08/17 08:01	1
<b>Percent Moisture</b>	<b>19.9</b>		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL03-(0.69-0.98')**

**Lab Sample ID: 240-87591-68**

**Date Collected: 10/31/17 08:37**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 87.3**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.8	U	55.9	26.8	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1221	25.7	U	55.9	25.7	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1232	17.9	U	55.9	17.9	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1242	22.4	U	55.9	22.4	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
<b>Aroclor-1248</b>	<b>579</b>		55.9	19.0	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1254	15.7	U	55.9	15.7	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1260	20.1	U	55.9	20.1	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1262	8.95	U	55.9	8.95	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1268	22.4	U	55.9	22.4	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
<b>Polychlorinated biphenyls, Total</b>	<b>579</b>		55.9	26.8	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	11/09/17 14:18	11/10/17 16:26	1
DCB Decachlorobiphenyl	86		10 - 132	11/09/17 14:18	11/10/17 16:26	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.3</b>		0.1	0.1	%			11/08/17 08:01	1
<b>Percent Moisture</b>	<b>12.7</b>		0.1	0.1	%			11/08/17 08:01	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL03-(0.98-1.17')**

**Lab Sample ID: 240-87591-69**

**Date Collected: 10/31/17 08:40**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 77.3**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	301	U	626	301	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1221	288	U	626	288	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1232	200	U	626	200	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1242	250	U	626	250	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
<b>Aroclor-1248</b>	<b>5020</b>		626	213	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1254	175	U	626	175	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
<b>Aroclor-1260</b>	<b>774</b>		626	225	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1262	100	U	626	100	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1268	250	U	626	250	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
<b>Polychlorinated biphenyls, Total</b>	<b>5790</b>		626	301	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>	68		14 - 128				11/10/17 10:03	11/14/17 08:02	10
<i>DCB Decachlorobiphenyl</i>	96		10 - 132				11/10/17 10:03	11/14/17 08:02	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>77.3</b>		0.1	0.1	%			11/08/17 08:01	1
<b>Percent Moisture</b>	<b>22.7</b>		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL03-(1.17-1.5')**

**Lab Sample ID: 240-87591-70**

**Date Collected: 10/31/17 08:44**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 87.7**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.2	U	58.8	28.2	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1221	27.1	U	58.8	27.1	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1232	18.8	U	58.8	18.8	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1242	23.5	U	58.8	23.5	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
<b>Aroclor-1248</b>	<b>114</b>		58.8	20.0	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1254	16.5	U	58.8	16.5	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1260	21.2	U	58.8	21.2	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1262	9.42	U	58.8	9.42	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1268	23.5	U	58.8	23.5	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
<b>Polychlorinated biphenyls, Total</b>	<b>114</b>		58.8	28.2	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		14 - 128	11/09/17 14:55	11/10/17 17:54	1
DCB Decachlorobiphenyl	84		10 - 132	11/09/17 14:55	11/10/17 17:54	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.7</b>		0.1	0.1	%			11/08/17 08:01	1
<b>Percent Moisture</b>	<b>12.3</b>		0.1	0.1	%			11/08/17 08:01	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-71**

**Date Collected: 10/31/17 08:11**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.9**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.0	U	58.4	28.0	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1221	26.8	U	58.4	26.8	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1232	18.7	U	58.4	18.7	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1242	23.3	U	58.4	23.3	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
<b>Aroclor-1248</b>	<b>94.1</b>	<b>p</b>	58.4	19.8	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1254	16.3	U	58.4	16.3	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1260	21.0	U	58.4	21.0	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1262	9.34	U	58.4	9.34	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1268	23.3	U	58.4	23.3	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
<b>Polychlorinated biphenyls, Total</b>	<b>94.1</b>	<b>p</b>	58.4	28.0	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	77		14 - 128	11/09/17 14:18	11/10/17 17:01	1
DCB Decachlorobiphenyl	81		10 - 132	11/09/17 14:18	11/10/17 17:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.9</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>16.1</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL01-(0.5-1.0')**

**Lab Sample ID: 240-87591-72**

**Date Collected: 10/31/17 08:17**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 87.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.7	U	59.7	28.7	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1221	27.5	U	59.7	27.5	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1232	19.1	U	59.7	19.1	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1242	23.9	U	59.7	23.9	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
<b>Aroclor-1248</b>	<b>126</b>		59.7	20.3	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1254	16.7	U	59.7	16.7	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1260	21.5	U	59.7	21.5	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1262	9.55	U	59.7	9.55	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1268	23.9	U	59.7	23.9	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
<b>Polychlorinated biphenyls, Total</b>	<b>126</b>		59.7	28.7	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		14 - 128	11/10/17 10:03	11/14/17 08:22	1
DCB Decachlorobiphenyl	90		10 - 132	11/10/17 10:03	11/14/17 08:22	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.1</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>12.9</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL04-(0-0.5')**

**Lab Sample ID: 240-87591-73**

**Date Collected: 10/30/17 14:54**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.4	U	63.3	30.4	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1221	29.1	U	63.3	29.1	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1232	20.2	U	63.3	20.2	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1242	25.3	U	63.3	25.3	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1248	21.5	U	63.3	21.5	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
<b>Aroclor-1254</b>	<b>65.0</b>	<b>p</b>	63.3	17.7	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1260	22.8	U	63.3	22.8	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1262	10.1	U	63.3	10.1	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1268	25.3	U	63.3	25.3	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
<b>Polychlorinated biphenyls, Total</b>	<b>65.0</b>	<b>p</b>	63.3	30.4	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	11/08/17 13:17	11/10/17 07:58	1
DCB Decachlorobiphenyl	107		10 - 132	11/08/17 13:17	11/10/17 07:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.2</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>21.8</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL04-(0.5-1.0')**

**Lab Sample ID: 240-87591-74**

**Date Collected: 10/30/17 15:01**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.1	U	60.7	29.1	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1221	27.9	U	60.7	27.9	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1232	19.4	U	60.7	19.4	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1242	24.3	U	60.7	24.3	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1248	20.6	U	60.7	20.6	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
<b>Aroclor-1254</b>	<b>43.5</b>	<b>J p</b>	60.7	17.0	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1260	21.9	U	60.7	21.9	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1262	9.71	U	60.7	9.71	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1268	24.3	U	60.7	24.3	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
<b>Polychlorinated biphenyls, Total</b>	<b>43.5</b>	<b>J p</b>	60.7	29.1	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	88		14 - 128	11/08/17 13:17	11/10/17 08:19	1
DCB Decachlorobiphenyl	129		10 - 132	11/08/17 13:17	11/10/17 08:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.7</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>19.3</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL04-(1.0-1.5")**

**Lab Sample ID: 240-87591-75**

**Date Collected: 10/30/17 15:20**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 82.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.1	U	60.7	29.1	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1221	27.9	U	60.7	27.9	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1232	19.4	U	60.7	19.4	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1242	24.3	U	60.7	24.3	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1248	20.6	U	60.7	20.6	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1254	17.0	U	60.7	17.0	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1260	21.9	U	60.7	21.9	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1262	9.72	U	60.7	9.72	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1268	24.3	U	60.7	24.3	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Polychlorinated biphenyls, Total	29.1	U	60.7	29.1	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	88		14 - 128	11/08/17 13:17	11/10/17 08:38	1
DCB Decachlorobiphenyl	103		10 - 132	11/08/17 13:17	11/10/17 08:38	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.5		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	17.5		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL04-(1.5-2.0')**

**Lab Sample ID: 240-87591-76**

**Date Collected: 10/30/17 15:27**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 85.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.4	U	59.1	28.4	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1221	27.2	U	59.1	27.2	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1232	18.9	U	59.1	18.9	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1242	23.6	U	59.1	23.6	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1248	20.1	U	59.1	20.1	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1254	16.5	U	59.1	16.5	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1260	21.3	U	59.1	21.3	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1262	9.45	U	59.1	9.45	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1268	23.6	U	59.1	23.6	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Polychlorinated biphenyls, Total	28.4	U	59.1	28.4	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	89		14 - 128	11/08/17 13:17	11/10/17 08:58	1
DCB Decachlorobiphenyl	124		10 - 132	11/08/17 13:17	11/10/17 08:58	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.0		0.1	0.1	%			11/09/17 07:46	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL03-(0.0.5')**

**Lab Sample ID: 240-87591-77**

**Date Collected: 10/30/17 16:30**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 75.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	31.2	U	65.0	31.2	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1221	29.9	U	65.0	29.9	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1232	20.8	U	65.0	20.8	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1242	26.0	U	65.0	26.0	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1248	22.1	U	65.0	22.1	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1254	18.2	U	65.0	18.2	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1260	23.4	U	65.0	23.4	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1262	10.4	U	65.0	10.4	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1268	26.0	U	65.0	26.0	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Polychlorinated biphenyls, Total	31.2	U	65.0	31.2	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		14 - 128	11/08/17 13:17	11/10/17 09:18	1
DCB Decachlorobiphenyl	147	X	10 - 132	11/08/17 13:17	11/10/17 09:18	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	24.8		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-78**

**Date Collected: 10/30/17 16:51**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.8	U	62.2	29.8	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1221	28.6	U	62.2	28.6	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1232	19.9	U	62.2	19.9	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1242	24.9	U	62.2	24.9	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1248	21.1	U	62.2	21.1	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1254	17.4	U	62.2	17.4	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1260	22.4	U	62.2	22.4	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1262	9.95	U	62.2	9.95	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1268	24.9	U	62.2	24.9	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Polychlorinated biphenyls, Total	29.8	U	62.2	29.8	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	90		14 - 128	11/08/17 13:17	11/10/17 09:38	1
DCB Decachlorobiphenyl	204	X	10 - 132	11/08/17 13:17	11/10/17 09:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	20.8		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL02-(0-0.5')**

**Lab Sample ID: 240-87591-79**

**Date Collected: 10/30/17 16:01**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	150	U	312	150	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1221	143	U	312	143	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1232	99.8	U	312	99.8	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1242	125	U	312	125	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
<b>Aroclor-1248</b>	<b>4140</b>		312	106	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1254	87.3	U	312	87.3	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
<b>Aroclor-1260</b>	<b>502</b>		312	112	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1262	49.9	U	312	49.9	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1268	125	U	312	125	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
<b>Polychlorinated biphenyls, Total</b>	<b>4640</b>		312	150	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		14 - 128	11/08/17 13:17	11/10/17 09:57	5
DCB Decachlorobiphenyl	269	X	10 - 132	11/08/17 13:17	11/10/17 09:57	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.7</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>21.3</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL02-(0-0.5')-FD**

**Lab Sample ID: 240-87591-80**

**Date Collected: 10/30/17 16:01**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 81.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	148	U	308	148	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1221	141	U	308	141	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1232	98.4	U	308	98.4	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1242	123	U	308	123	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
<b>Aroclor-1248</b>	<b>4710</b>		308	105	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1254	86.1	U	308	86.1	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
<b>Aroclor-1260</b>	<b>541</b>		308	111	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1262	49.2	U	308	49.2	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1268	123	U	308	123	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
<b>Polychlorinated biphenyls, Total</b>	<b>5250</b>		308	148	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		14 - 128	11/08/17 13:17	11/10/17 10:17	5
DCB Decachlorobiphenyl	160	X	10 - 132	11/08/17 13:17	11/10/17 10:17	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.0</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>19.0</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL02-(0.5-1.0')**

**Lab Sample ID: 240-87591-81**

**Date Collected: 10/30/17 16:09**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 88.3**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.0	U	56.2	27.0	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1221	25.9	U	56.2	25.9	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1232	18.0	U	56.2	18.0	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1242	22.5	U	56.2	22.5	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
<b>Aroclor-1248</b>	<b>687</b>		56.2	19.1	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1254	15.7	U	56.2	15.7	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
<b>Aroclor-1260</b>	<b>85.3</b>		56.2	20.2	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1262	9.00	U	56.2	9.00	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1268	22.5	U	56.2	22.5	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
<b>Polychlorinated biphenyls, Total</b>	<b>772</b>		56.2	27.0	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	11/08/17 13:17	11/10/17 10:37	1
DCB Decachlorobiphenyl	106		10 - 132	11/08/17 13:17	11/10/17 10:37	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>88.3</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>11.7</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL02-(1.0-1.5')**

**Lab Sample ID: 240-87591-82**

**Date Collected: 10/30/17 16:10**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58.2	U	121	58.2	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1221	55.8	U	121	55.8	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1232	38.8	U	121	38.8	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1242	48.5	U	121	48.5	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
<b>Aroclor-1248</b>	<b>1600</b>		121	41.2	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1254	33.9	U	121	33.9	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
<b>Aroclor-1260</b>	<b>168</b>		121	43.6	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1262	19.4	U	121	19.4	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1268	48.5	U	121	48.5	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
<b>Polychlorinated biphenyls, Total</b>	<b>1770</b>		121	58.2	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	79		14 - 128	11/08/17 13:17	11/10/17 14:56	2
DCB Decachlorobiphenyl	105		10 - 132	11/08/17 13:17	11/10/17 14:56	2

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.0</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>17.0</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-83**

**Date Collected: 10/30/17 12:20**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 81.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	286	U	596	286	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1221	274	U	596	274	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1232	191	U	596	191	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1242	238	U	596	238	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
<b>Aroclor-1248</b>	<b>7150</b>		596	203	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1254	167	U	596	167	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
<b>Aroclor-1260</b>	<b>843</b>		596	215	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1262	95.4	U	596	95.4	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1268	238	U	596	238	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
<b>Polychlorinated biphenyls, Total</b>	<b>7990</b>		596	286	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128	11/08/17 13:17	11/10/17 15:16	10
DCB Decachlorobiphenyl	169	X	10 - 132	11/08/17 13:17	11/10/17 15:16	10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.0</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>19.0</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL03-(0.5-0.97')**

**Lab Sample ID: 240-87591-84**

**Date Collected: 10/30/17 12:33**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 91.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	51.9	U	108	51.9	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1221	49.7	U	108	49.7	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1232	34.6	U	108	34.6	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1242	43.2	U	108	43.2	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
<b>Aroclor-1248</b>	<b>1930</b>		108	36.7	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1254	30.3	U	108	30.3	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
<b>Aroclor-1260</b>	<b>129</b>		108	38.9	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1262	17.3	U	108	17.3	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1268	43.2	U	108	43.2	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
<b>Polychlorinated biphenyls, Total</b>	<b>2060</b>		108	51.9	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	11/08/17 13:17	11/10/17 11:37	2
DCB Decachlorobiphenyl	131		10 - 132	11/08/17 13:17	11/10/17 11:37	2

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>91.9</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>8.1</b>		0.1	0.1	%			11/09/17 07:46	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL03-(0.97-1..47')**

**Lab Sample ID: 240-87591-85**

**Date Collected: 10/30/17 12:45**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2900	U	6030	2900	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1221	2770	U	6030	2770	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1232	1930	U	6030	1930	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1242	2410	U	6030	2410	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
<b>Aroclor-1248</b>	<b>66000</b>		6030	2050	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1254	1690	U	6030	1690	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
<b>Aroclor-1260</b>	<b>2720</b>	<b>J F1</b>	6030	2170	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1262	965	U	6030	965	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1268	2410	U	6030	2410	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
<b>Polychlorinated biphenyls, Total</b>	<b>68700</b>		6030	2900	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		14 - 128	11/08/17 13:17	11/10/17 11:56	100
DCB Decachlorobiphenyl	178	X	10 - 132	11/08/17 13:17	11/10/17 11:56	100

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.6</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>16.4</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL03-(1.5-2.0')**

**Lab Sample ID: 240-87591-86**

**Date Collected: 10/30/17 12:53**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	3000	U	6240	3000	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1221	2870	U	6240	2870	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1232	2000	U	6240	2000	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1242	2500	U	6240	2500	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
<b>Aroclor-1248</b>	<b>78300</b>		6240	2120	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1254	1750	U	6240	1750	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
<b>Aroclor-1260</b>	<b>4300</b>	<b>J</b>	6240	2250	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1262	999	U	6240	999	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1268	2500	U	6240	2500	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
<b>Polychlorinated biphenyls, Total</b>	<b>82600</b>		6240	3000	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		14 - 128	11/08/17 13:17	11/10/17 12:57	100
DCB Decachlorobiphenyl	110		10 - 132	11/08/17 13:17	11/10/17 12:57	100

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.4</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>19.6</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL04-(0-0.67)**

**Lab Sample ID: 240-87591-87**

**Date Collected: 10/30/17 13:18**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 83.3**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.9	U	60.1	28.9	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1221	27.6	U	60.1	27.6	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1232	19.2	U	60.1	19.2	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1242	24.0	U	60.1	24.0	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1248	20.4	U	60.1	20.4	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1254	16.8	U	60.1	16.8	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1260	21.6	U	60.1	21.6	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1262	9.62	U	60.1	9.62	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1268	24.0	U	60.1	24.0	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Polychlorinated biphenyls, Total	28.9	U	60.1	28.9	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		14 - 128	11/08/17 13:17	11/10/17 13:17	1
DCB Decachlorobiphenyl	112		10 - 132	11/08/17 13:17	11/10/17 13:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.3		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	16.7		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL04-(0.67-0.86)**

**Lab Sample ID: 240-87591-88**

**Date Collected: 10/30/17 13:27**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 82.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.8	U	60.0	28.8	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1221	27.6	U	60.0	27.6	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1232	19.2	U	60.0	19.2	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1242	24.0	U	60.0	24.0	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1248	20.4	U	60.0	20.4	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1254	16.8	U	60.0	16.8	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1260	21.6	U	60.0	21.6	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1262	9.60	U	60.0	9.60	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1268	24.0	U	60.0	24.0	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Polychlorinated biphenyls, Total	28.8	U	60.0	28.8	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	83		14 - 128	11/08/17 13:17	11/10/17 13:36	1
DCB Decachlorobiphenyl	161	X	10 - 132	11/08/17 13:17	11/10/17 13:36	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	17.8		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL04-(0.86-1.36)**

**Lab Sample ID: 240-87591-89**

**Date Collected: 10/30/17 13:39**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.6	U	61.7	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1221	28.4	U	61.7	28.4	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1232	19.8	U	61.7	19.8	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1242	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1248	21.0	U	61.7	21.0	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1254	17.3	U	61.7	17.3	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1260	22.2	U	61.7	22.2	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1262	9.88	U	61.7	9.88	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1268	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Polychlorinated biphenyls, Total	29.6	U	61.7	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	74		14 - 128	11/10/17 10:03	11/14/17 08:42	1
DCB Decachlorobiphenyl	93		10 - 132	11/10/17 10:03	11/14/17 08:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.5		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	19.5		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL04-(1.5-2.0')**

**Lab Sample ID: 240-87591-90**

**Date Collected: 10/30/17 13:44**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.3	U	61.1	29.3	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1221	28.1	U	61.1	28.1	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1232	19.6	U	61.1	19.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1242	24.5	U	61.1	24.5	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1248	20.8	U	61.1	20.8	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1254	17.1	U	61.1	17.1	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1260	22.0	U	61.1	22.0	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1262	9.78	U	61.1	9.78	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1268	24.5	U	61.1	24.5	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Polychlorinated biphenyls, Total	29.3	U	61.1	29.3	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	72		14 - 128	11/10/17 10:03	11/14/17 09:01	1
DCB Decachlorobiphenyl	86		10 - 132	11/10/17 10:03	11/14/17 09:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.4		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	19.6		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-91**

**Date Collected: 10/30/17 11:07**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.8**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.0	U	62.5	30.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1221	28.8	U	62.5	28.8	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1232	20.0	U	62.5	20.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1242	25.0	U	62.5	25.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
<b>Aroclor-1248</b>	<b>166</b>		62.5	21.3	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1254	17.5	U	62.5	17.5	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
<b>Aroclor-1260</b>	<b>28.5</b>	<b>J p</b>	62.5	22.5	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1262	10.0	U	62.5	10.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1268	25.0	U	62.5	25.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
<b>Polychlorinated biphenyls, Total</b>	<b>211</b>		62.5	30.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		14 - 128	11/10/17 10:03	11/14/17 14:59	1
Tetrachloro-m-xylene	66		14 - 128	11/10/17 10:03	11/14/17 14:59	1
DCB Decachlorobiphenyl	95		10 - 132	11/10/17 10:03	11/14/17 14:59	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 10:03	11/14/17 14:59	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.8</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>21.2</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL01-(0.5-1.0')**

**Lab Sample ID: 240-87591-92**

**Date Collected: 10/30/17 11:16**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 89.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.2	U	54.6	26.2	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1221	25.1	U	54.6	25.1	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1232	17.5	U	54.6	17.5	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1242	21.8	U	54.6	21.8	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1248	18.6	U	54.6	18.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1254	15.3	U	54.6	15.3	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1260	19.6	U	54.6	19.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1262	8.73	U	54.6	8.73	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1268	21.8	U	54.6	21.8	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Polychlorinated biphenyls, Total	26.2	U	54.6	26.2	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	62		14 - 128	11/10/17 10:03	11/14/17 09:21	1
DCB Decachlorobiphenyl	83		10 - 132	11/10/17 10:03	11/14/17 09:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.6		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	10.4		0.1	0.1	%			11/09/17 07:46	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL01-(1.0-1.86')**

**Lab Sample ID: 240-87591-93**

**Date Collected: 10/30/17 11:22**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.6	U	63.7	30.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1221	29.3	U	63.7	29.3	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1232	20.4	U	63.7	20.4	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1242	25.5	U	63.7	25.5	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1248	21.6	U	63.7	21.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1254	17.8	U	63.7	17.8	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1260	22.9	U	63.7	22.9	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1262	10.2	U	63.7	10.2	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1268	25.5	U	63.7	25.5	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Polychlorinated biphenyls, Total	30.6	U	63.7	30.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	11/10/17 10:03	11/14/17 09:41	1
DCB Decachlorobiphenyl	97		10 - 132	11/10/17 10:03	11/14/17 09:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	20.9		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL01-(1.86-2.0')**

**Lab Sample ID: 240-87591-94**

**Date Collected: 10/30/17 11:34**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.6	U	61.8	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1221	28.4	U	61.8	28.4	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1232	19.8	U	61.8	19.8	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1242	24.7	U	61.8	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1248	21.0	U	61.8	21.0	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1254	17.3	U	61.8	17.3	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1260	22.2	U	61.8	22.2	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1262	9.88	U	61.8	9.88	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1268	24.7	U	61.8	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Polychlorinated biphenyls, Total	29.6	U	61.8	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	11/10/17 10:03	11/14/17 10:02	1
DCB Decachlorobiphenyl	82		10 - 132	11/10/17 10:03	11/14/17 10:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.7		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	21.3		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.37-SL03-(0-0.27')**

**Lab Sample ID: 240-87591-95**

**Date Collected: 11/02/17 09:25**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.0	30.3	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1221	29.0	U	63.0	29.0	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1232	20.2	U	63.0	20.2	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1242	25.2	U	63.0	25.2	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
<b>Aroclor-1248</b>	<b>771</b>		63.0	21.4	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1254	17.6	U	63.0	17.6	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
<b>Aroclor-1260</b>	<b>115</b>		63.0	22.7	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1262	10.1	U	63.0	10.1	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1268	25.2	U	63.0	25.2	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
<b>Polychlorinated biphenyls, Total</b>	<b>886</b>		63.0	30.3	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	11/10/17 10:03	11/14/17 10:22	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 10:03	11/14/17 10:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.6</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>20.4</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.37-SL03-(0.27-0.92')**

**Lab Sample ID: 240-87591-96**

**Date Collected: 11/02/17 09:26**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 89.8**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.5	U	55.2	26.5	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1221	25.4	U	55.2	25.4	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1232	17.7	U	55.2	17.7	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1242	22.1	U	55.2	22.1	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
<b>Aroclor-1248</b>	<b>159</b>		55.2	18.8	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1254	15.5	U	55.2	15.5	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1260	19.9	U	55.2	19.9	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1262	8.83	U	55.2	8.83	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1268	22.1	U	55.2	22.1	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
<b>Polychlorinated biphenyls, Total</b>	<b>159</b>		55.2	26.5	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	11/10/17 10:03	11/14/17 10:41	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 10:03	11/14/17 10:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>89.8</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>10.2</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.37-SL03-(0.92-1.07')**

**Lab Sample ID: 240-87591-97**

**Date Collected: 11/02/17 09:28**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 82.6**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.6	U	61.7	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1221	28.4	U	61.7	28.4	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1232	19.8	U	61.7	19.8	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1242	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
<b>Aroclor-1248</b>	<b>237</b>		61.7	21.0	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1254	17.3	U	61.7	17.3	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
<b>Aroclor-1260</b>	<b>28.9</b>	<b>J</b>	61.7	22.2	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1262	9.88	U	61.7	9.88	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1268	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
<b>Polychlorinated biphenyls, Total</b>	<b>266</b>		61.7	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	11/10/17 10:03	11/14/17 11:01	1
DCB Decachlorobiphenyl	82		10 - 132	11/10/17 10:03	11/14/17 11:01	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>82.6</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>17.4</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.37-SL03-(1.07-2.0')**

**Lab Sample ID: 240-87591-98**

**Date Collected: 11/02/17 09:30**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 88.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.6	U	57.4	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1221	26.4	U	57.4	26.4	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1232	18.4	U	57.4	18.4	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1242	23.0	U	57.4	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
<b>Aroclor-1248</b>	<b>189</b>		57.4	19.5	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1254	16.1	U	57.4	16.1	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1260	20.7	U	57.4	20.7	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1262	9.19	U	57.4	9.19	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1268	23.0	U	57.4	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
<b>Polychlorinated biphenyls, Total</b>	<b>189</b>		57.4	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/10/17 10:03	11/14/17 11:20	1
DCB Decachlorobiphenyl	94		10 - 132	11/10/17 10:03	11/14/17 11:20	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>88.9</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>11.1</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SL04-(0-0.5')**

**Lab Sample ID: 240-87591-99**

**Date Collected: 11/01/17 14:10**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 82.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.3	U	61.1	29.3	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1221	28.1	U	61.1	28.1	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1232	19.5	U	61.1	19.5	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1242	24.4	U	61.1	24.4	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1248	20.8	U	61.1	20.8	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
<b>Aroclor-1254</b>	<b>33.6</b>	<b>J</b>	61.1	17.1	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1260	22.0	U	61.1	22.0	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1262	9.77	U	61.1	9.77	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1268	24.4	U	61.1	24.4	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
<b>Polychlorinated biphenyls, Total</b>	<b>33.6</b>	<b>J</b>	61.1	29.3	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	11/10/17 10:03	11/14/17 11:40	1
DCB Decachlorobiphenyl	79		10 - 132	11/10/17 10:03	11/14/17 11:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>82.0</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>18.0</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SL04-(0.5-1.0')**

**Lab Sample ID: 240-87591-100**

**Date Collected: 11/01/17 14:17**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.8**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.2	U	56.7	27.2	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1221	26.1	U	56.7	26.1	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1232	18.1	U	56.7	18.1	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1242	22.7	U	56.7	22.7	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1248	19.3	U	56.7	19.3	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
<b>Aroclor-1254</b>	<b>19.6</b>	<b>J</b>	56.7	15.9	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1260	20.4	U	56.7	20.4	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1262	9.07	U	56.7	9.07	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1268	22.7	U	56.7	22.7	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Polychlorinated biphenyls, Total	27.2	U	56.7	27.2	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	11/10/17 10:03	11/14/17 12:00	1
DCB Decachlorobiphenyl	85	p	10 - 132	11/10/17 10:03	11/14/17 12:00	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.8</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>15.2</b>		0.1	0.1	%			11/09/17 07:46	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SL04-(1.0-1.81')**

**Lab Sample ID: 240-87591-101**

**Date Collected: 11/01/17 14:27**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 85.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.6	U	57.6	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1221	26.5	U	57.6	26.5	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1232	18.4	U	57.6	18.4	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1242	23.0	U	57.6	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1248	19.6	U	57.6	19.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1254	16.1	U	57.6	16.1	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1260	20.7	U	57.6	20.7	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1262	9.22	U	57.6	9.22	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1268	23.0	U	57.6	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Polychlorinated biphenyls, Total	27.6	U	57.6	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	67		14 - 128	11/10/17 10:03	11/14/17 12:20	1
DCB Decachlorobiphenyl	85	p	10 - 132	11/10/17 10:03	11/14/17 12:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.0		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SL04-(1.81-2.0')**

**Lab Sample ID: 240-87591-102**

**Date Collected: 11/01/17 14:33**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 87.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.6	U	57.6	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1221	26.5	U	57.6	26.5	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1232	18.4	U	57.6	18.4	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1242	23.0	U	57.6	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1248	19.6	U	57.6	19.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1254	16.1	U	57.6	16.1	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1260	20.7	U	57.6	20.7	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1262	9.21	U	57.6	9.21	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1268	23.0	U	57.6	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Polychlorinated biphenyls, Total	27.6	U	57.6	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	69		14 - 128	11/10/17 10:03	11/14/17 12:39	1
DCB Decachlorobiphenyl	88		10 - 132	11/10/17 10:03	11/14/17 12:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	13.0		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL02-(0-0.5)**

**Lab Sample ID: 240-87591-103**

**Date Collected: 10/31/17 14:50**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 77.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	317	U	659	317	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1221	303	U	659	303	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1232	211	U	659	211	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1242	264	U	659	264	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
<b>Aroclor-1248</b>	<b>1440</b>		659	224	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1254	185	U	659	185	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1260	237	U	659	237	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1262	106	U	659	106	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1268	264	U	659	264	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
<b>Polychlorinated biphenyls, Total</b>	<b>1440</b>		659	317	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	11/10/17 10:03	11/14/17 12:58	10
DCB Decachlorobiphenyl	128	p	10 - 132	11/10/17 10:03	11/14/17 12:58	10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>77.0</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>23.0</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL02-(0.5-1.0')**

**Lab Sample ID: 240-87591-104**

**Date Collected: 10/31/17 14:57**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 72.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	32.5	U	67.6	32.5	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1221	31.1	U	67.6	31.1	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1232	21.6	U	67.6	21.6	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1242	27.0	U	67.6	27.0	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
<b>Aroclor-1248</b>	<b>1810</b>		67.6	23.0	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1254	18.9	U	67.6	18.9	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
<b>Aroclor-1260</b>	<b>122</b>		67.6	24.3	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1262	10.8	U	67.6	10.8	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1268	27.0	U	67.6	27.0	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
<b>Polychlorinated biphenyls, Total</b>	<b>1930</b>		67.6	32.5	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	11/10/17 08:32	11/14/17 11:37	1
DCB Decachlorobiphenyl	94		10 - 132	11/10/17 08:32	11/14/17 11:37	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>72.5</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>27.5</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL02-(1.0-1.5')**

**Lab Sample ID: 240-87591-105**

**Date Collected: 10/31/17 15:04**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 75.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	64.2	U	134	64.2	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1221	61.5	U	134	61.5	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1232	42.8	U	134	42.8	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1242	53.5	U	134	53.5	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
<b>Aroclor-1248</b>	<b>2290</b>		134	45.5	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1254	37.4	U	134	37.4	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
<b>Aroclor-1260</b>	<b>145</b>		134	48.1	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1262	21.4	U	134	21.4	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1268	53.5	U	134	53.5	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
<b>Polychlorinated biphenyls, Total</b>	<b>2440</b>		134	64.2	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	11/10/17 08:32	11/15/17 07:49	2
DCB Decachlorobiphenyl	102		10 - 132	11/10/17 08:32	11/15/17 07:49	2

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>75.5</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>24.5</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.24-SL01-(0-0.87')**

**Lab Sample ID: 240-87591-106**

**Date Collected: 11/01/17 11:26**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 87.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	277	U	576	277	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1221	265	U	576	265	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1232	184	U	576	184	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1242	231	U	576	231	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
<b>Aroclor-1248</b>	<b>4240</b>		576	196	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1254	161	U	576	161	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
<b>Aroclor-1260</b>	<b>407</b>	<b>J</b>	576	207	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1262	92.2	U	576	92.2	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1268	231	U	576	231	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
<b>Polychlorinated biphenyls, Total</b>	<b>4650</b>		576	277	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	11/10/17 08:32	11/15/17 08:08	10
DCB Decachlorobiphenyl	108	p	10 - 132	11/10/17 08:32	11/15/17 08:08	10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.4</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>12.6</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.24-SL01-(0.87-1.0')**

**Lab Sample ID: 240-87591-107**

**Date Collected: 11/01/17 11:44**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 91.3**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.3	U	54.9	26.3	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1221	25.2	U	54.9	25.2	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1232	17.6	U	54.9	17.6	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1242	22.0	U	54.9	22.0	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
<b>Aroclor-1248</b>	<b>662</b>		54.9	18.7	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1254	15.4	U	54.9	15.4	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
<b>Aroclor-1260</b>	<b>52.8</b>	<b>J</b>	54.9	19.8	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1262	8.78	U	54.9	8.78	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1268	22.0	U	54.9	22.0	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
<b>Polychlorinated biphenyls, Total</b>	<b>715</b>		54.9	26.3	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	11/10/17 08:32	11/14/17 12:32	1
DCB Decachlorobiphenyl	77		10 - 132	11/10/17 08:32	11/14/17 12:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>91.3</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>8.7</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.14-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-108**

**Date Collected: 11/01/17 10:22**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 79.8**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.4	U	63.3	30.4	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1221	29.1	U	63.3	29.1	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1232	20.3	U	63.3	20.3	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1242	25.3	U	63.3	25.3	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1248	21.5	U	63.3	21.5	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1254	17.7	U	63.3	17.7	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1260	22.8	U	63.3	22.8	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1262	10.1	U	63.3	10.1	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1268	25.3	U	63.3	25.3	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Polychlorinated biphenyls, Total	30.4	U	63.3	30.4	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	71		14 - 128	11/10/17 08:32	11/14/17 12:51	1
DCB Decachlorobiphenyl	81		10 - 132	11/10/17 08:32	11/14/17 12:51	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.8		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	20.2		0.1	0.1	%			11/09/17 07:46	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.14-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-109**

**Date Collected: 11/01/17 10:29**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 85.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.5	U	57.3	27.5	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1221	26.3	U	57.3	26.3	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1232	18.3	U	57.3	18.3	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1242	22.9	U	57.3	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1248	19.5	U	57.3	19.5	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1254	16.0	U	57.3	16.0	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1260	20.6	U	57.3	20.6	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1262	9.16	U	57.3	9.16	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1268	22.9	U	57.3	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Polychlorinated biphenyls, Total	27.5	U	57.3	27.5	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	80		14 - 128	11/10/17 08:32	11/14/17 13:09	1
DCB Decachlorobiphenyl	99		10 - 132	11/10/17 08:32	11/14/17 13:09	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	14.9		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.14-SL03-(0.5-1.0')-FD**

**Lab Sample ID: 240-87591-110**

**Date Collected: 11/01/17 10:29**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.4**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.9	U	60.2	28.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1221	27.7	U	60.2	27.7	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1232	19.3	U	60.2	19.3	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1242	24.1	U	60.2	24.1	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1248	20.5	U	60.2	20.5	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1254	16.9	U	60.2	16.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1260	21.7	U	60.2	21.7	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1262	9.63	U	60.2	9.63	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1268	24.1	U	60.2	24.1	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Polychlorinated biphenyls, Total	28.9	U	60.2	28.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	82		14 - 128	11/10/17 08:32	11/14/17 13:27	1
DCB Decachlorobiphenyl	101		10 - 132	11/10/17 08:32	11/14/17 13:27	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.4		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.6		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SL02-(0-0.5')**

**Lab Sample ID: 240-87591-111**

**Date Collected: 11/01/17 13:50**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.4	U	57.2	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1221	26.3	U	57.2	26.3	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1232	18.3	U	57.2	18.3	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1242	22.9	U	57.2	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
<b>Aroclor-1248</b>	<b>164</b>		57.2	19.4	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1254	16.0	U	57.2	16.0	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
<b>Aroclor-1260</b>	<b>23.1</b>	<b>J</b>	57.2	20.6	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1262	9.14	U	57.2	9.14	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1268	22.9	U	57.2	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
<b>Polychlorinated biphenyls, Total</b>	<b>187</b>		57.2	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/10/17 08:32	11/14/17 13:46	1
DCB Decachlorobiphenyl	85		10 - 132	11/10/17 08:32	11/14/17 13:46	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.9</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>15.1</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SL02-(0.5-1.0')**

**Lab Sample ID: 240-87591-112**

**Date Collected: 11/01/17 13:55**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 87.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.4	U	57.0	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1221	26.2	U	57.0	26.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1232	18.2	U	57.0	18.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1242	22.8	U	57.0	22.8	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
<b>Aroclor-1248</b>	<b>117</b>		57.0	19.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1254	16.0	U	57.0	16.0	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1260	20.5	U	57.0	20.5	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1262	9.12	U	57.0	9.12	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1268	22.8	U	57.0	22.8	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
<b>Polychlorinated biphenyls, Total</b>	<b>117</b>		57.0	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	11/10/17 08:32	11/14/17 14:04	1
DCB Decachlorobiphenyl	87		10 - 132	11/10/17 08:32	11/14/17 14:04	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.9</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>12.1</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.37-SL01-(0-0.9')**

**Lab Sample ID: 240-87591-113**

**Date Collected: 11/02/17 09:11**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 82.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.5	U	59.3	28.5	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1221	27.3	U	59.3	27.3	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1232	19.0	U	59.3	19.0	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1242	23.7	U	59.3	23.7	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1248	20.2	U	59.3	20.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1254	16.6	U	59.3	16.6	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1260	21.4	U	59.3	21.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1262	9.50	U	59.3	9.50	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1268	23.7	U	59.3	23.7	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Polychlorinated biphenyls, Total	28.5	U	59.3	28.5	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	11/10/17 08:32	11/14/17 14:23	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 08:32	11/14/17 14:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.4		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	17.6		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.37-SL01-(0-0.9')-FD**

**Lab Sample ID: 240-87591-114**

**Date Collected: 11/02/17 09:11**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 82.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.0	U	60.5	29.0	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1221	27.8	U	60.5	27.8	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1232	19.4	U	60.5	19.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1242	24.2	U	60.5	24.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1248	20.6	U	60.5	20.6	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1254	16.9	U	60.5	16.9	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1260	21.8	U	60.5	21.8	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1262	9.68	U	60.5	9.68	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1268	24.2	U	60.5	24.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Polychlorinated biphenyls, Total	29.0	U	60.5	29.0	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	76		14 - 128	11/10/17 08:32	11/14/17 14:41	1
DCB Decachlorobiphenyl	86		10 - 132	11/10/17 08:32	11/14/17 14:41	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	17.8		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SL03-(0-0.21')**

**Lab Sample ID: 240-87591-115**

**Date Collected: 10/31/17 17:05**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 80.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.6	U	61.7	29.6	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1221	28.4	U	61.7	28.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1232	19.7	U	61.7	19.7	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1242	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
<b>Aroclor-1248</b>	<b>72.2</b>		61.7	21.0	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1254	17.3	U	61.7	17.3	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1260	22.2	U	61.7	22.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1262	9.87	U	61.7	9.87	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1268	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
<b>Polychlorinated biphenyls, Total</b>	<b>72.2</b>		61.7	29.6	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/10/17 08:32	11/14/17 14:59	1
DCB Decachlorobiphenyl	82		10 - 132	11/10/17 08:32	11/14/17 14:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.0</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>20.0</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SL03-(0.21-1.0')**

**Lab Sample ID: 240-87591-116**

**Date Collected: 10/31/17 17:13**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 90.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.4	U	57.2	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1221	26.3	U	57.2	26.3	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1232	18.3	U	57.2	18.3	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1242	22.9	U	57.2	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1248	19.4	U	57.2	19.4	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1254	16.0	U	57.2	16.0	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1260	20.6	U	57.2	20.6	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1262	9.15	U	57.2	9.15	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1268	22.9	U	57.2	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Polychlorinated biphenyls, Total	27.4	U	57.2	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	74		14 - 128	11/10/17 08:32	11/14/17 15:18	1
DCB Decachlorobiphenyl	84		10 - 132	11/10/17 08:32	11/14/17 15:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.6		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	9.4		0.1	0.1	%			11/09/17 07:46	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.82-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-117**

**Date Collected: 10/31/17 16:11**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 90.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.9	U	56.1	26.9	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1221	25.8	U	56.1	25.8	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1232	17.9	U	56.1	17.9	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1242	22.4	U	56.1	22.4	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
<b>Aroclor-1248</b>	<b>70.4</b>		56.1	19.1	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1254	15.7	U	56.1	15.7	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1260	20.2	U	56.1	20.2	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1262	8.97	U	56.1	8.97	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1268	22.4	U	56.1	22.4	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
<b>Polychlorinated biphenyls, Total</b>	<b>70.4</b>		56.1	26.9	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	11/10/17 08:32	11/14/17 15:36	1
DCB Decachlorobiphenyl	84		10 - 132	11/10/17 08:32	11/14/17 15:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>90.1</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>9.9</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.82-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-118**

**Date Collected: 10/31/17 16:15**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 64.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	37.8	U	78.7	37.8	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1221	36.2	U	78.7	36.2	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1232	25.2	U	78.7	25.2	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1242	31.5	U	78.7	31.5	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
<b>Aroclor-1248</b>	<b>1120</b>		78.7	26.8	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1254	22.0	U	78.7	22.0	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
<b>Aroclor-1260</b>	<b>84.8</b>		78.7	28.3	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1262	12.6	U	78.7	12.6	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1268	31.5	U	78.7	31.5	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
<b>Polychlorinated biphenyls, Total</b>	<b>1200</b>		78.7	37.8	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/10/17 08:32	11/14/17 15:54	1
DCB Decachlorobiphenyl	384	X	10 - 132	11/10/17 08:32	11/14/17 15:54	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>64.0</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>36.0</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL04-(0-0.11')**

**Lab Sample ID: 240-87591-119**

**Date Collected: 10/31/17 15:39**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 78.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	31.1	U	64.9	31.1	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1221	29.8	U	64.9	29.8	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1232	20.8	U	64.9	20.8	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1242	26.0	U	64.9	26.0	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
<b>Aroclor-1248</b>	<b>54.7</b>	<b>J</b>	64.9	22.1	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1254	18.2	U	64.9	18.2	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1260	23.4	U	64.9	23.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1262	10.4	U	64.9	10.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1268	26.0	U	64.9	26.0	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
<b>Polychlorinated biphenyls, Total</b>	<b>54.7</b>	<b>J</b>	64.9	31.1	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	11/10/17 08:32	11/14/17 16:13	1
DCB Decachlorobiphenyl	99		10 - 132	11/10/17 08:32	11/14/17 16:13	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.1</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>21.9</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL04-(0.11-0.47')**

**Lab Sample ID: 240-87591-120**

**Date Collected: 10/31/17 15:40**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 85.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.8	U	55.9	26.8	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1221	25.7	U	55.9	25.7	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1232	17.9	U	55.9	17.9	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1242	22.4	U	55.9	22.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
<b>Aroclor-1248</b>	<b>24.5</b>	<b>J</b>	55.9	19.0	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1254	15.6	U	55.9	15.6	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1260	20.1	U	55.9	20.1	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1262	8.94	U	55.9	8.94	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1268	22.4	U	55.9	22.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Polychlorinated biphenyls, Total	26.8	U	55.9	26.8	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	11/10/17 08:32	11/14/17 16:31	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 08:32	11/14/17 16:31	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.5</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>14.5</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL04-(0.47-1.0')**

**Lab Sample ID: 240-87591-121**

**Date Collected: 10/31/17 15:46**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.9**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.4	U	59.2	28.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1221	27.2	U	59.2	27.2	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1232	18.9	U	59.2	18.9	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1242	23.7	U	59.2	23.7	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1248	20.1	U	59.2	20.1	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1254	16.6	U	59.2	16.6	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1260	21.3	U	59.2	21.3	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1262	9.47	U	59.2	9.47	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1268	23.7	U	59.2	23.7	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Polychlorinated biphenyls, Total	28.4	U	59.2	28.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	74		14 - 128	11/10/17 08:32	11/14/17 16:49	1
DCB Decachlorobiphenyl	87		10 - 132	11/10/17 08:32	11/14/17 16:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.9		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.1		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-122**

**Date Collected: 11/01/17 13:40**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 86.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.3	U	56.9	27.3	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1221	26.2	U	56.9	26.2	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1232	18.2	U	56.9	18.2	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1242	22.8	U	56.9	22.8	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1248	19.3	U	56.9	19.3	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1254	15.9	U	56.9	15.9	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1260	20.5	U	56.9	20.5	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1262	9.10	U	56.9	9.10	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1268	22.8	U	56.9	22.8	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Polychlorinated biphenyls, Total	27.3	U	56.9	27.3	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	79		14 - 128	11/10/17 08:32	11/14/17 18:03	1
DCB Decachlorobiphenyl	90		10 - 132	11/10/17 08:32	11/14/17 18:03	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	14.0		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SL01-(0-0.5')-FD**

**Lab Sample ID: 240-87591-123**

**Date Collected: 11/01/17 13:40**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 85.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.9	U	58.1	27.9	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1221	26.7	U	58.1	26.7	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1232	18.6	U	58.1	18.6	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1242	23.2	U	58.1	23.2	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1248	19.8	U	58.1	19.8	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1254	16.3	U	58.1	16.3	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1260	20.9	U	58.1	20.9	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1262	9.30	U	58.1	9.30	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1268	23.2	U	58.1	23.2	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Polychlorinated biphenyls, Total	27.9	U	58.1	27.9	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	78		14 - 128	11/10/17 08:32	11/14/17 18:21	1
DCB Decachlorobiphenyl	88		10 - 132	11/10/17 08:32	11/14/17 18:21	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.0		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.24-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-124**

**Date Collected: 11/01/17 12:03**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.3**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.5	U	59.4	28.5	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1221	27.3	U	59.4	27.3	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1232	19.0	U	59.4	19.0	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1242	23.8	U	59.4	23.8	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1248	20.2	U	59.4	20.2	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1254	16.6	U	59.4	16.6	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1260	21.4	U	59.4	21.4	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1262	9.50	U	59.4	9.50	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1268	23.8	U	59.4	23.8	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Polychlorinated biphenyls, Total	28.5	U	59.4	28.5	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	81		14 - 128	11/10/17 09:13	11/13/17 18:12	1
DCB Decachlorobiphenyl	108		10 - 132	11/10/17 09:13	11/13/17 18:12	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.3		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.7		0.1	0.1	%			11/09/17 07:46	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.82-SL01-(0-0.22')**

**Lab Sample ID: 240-87591-125**

**Date Collected: 10/31/17 16:04**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.6	U	59.5	28.6	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1221	27.4	U	59.5	27.4	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1232	19.1	U	59.5	19.1	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1242	23.8	U	59.5	23.8	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
<b>Aroclor-1248</b>	<b>339</b>		59.5	20.2	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1254	16.7	U	59.5	16.7	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
<b>Aroclor-1260</b>	<b>58.2</b>	<b>J</b>	59.5	21.4	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1262	9.53	U	59.5	9.53	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1268	23.8	U	59.5	23.8	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
<b>Polychlorinated biphenyls, Total</b>	<b>397</b>		59.5	28.6	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		14 - 128	11/10/17 09:13	11/13/17 18:29	1
DCB Decachlorobiphenyl	87		10 - 132	11/10/17 09:13	11/13/17 18:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.1</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>15.9</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.82-SL01-(0.22-0.5')**

**Lab Sample ID: 240-87591-126**

**Date Collected: 10/31/17 16:05**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 92.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.9	U	56.0	26.9	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1221	25.8	U	56.0	25.8	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1232	17.9	U	56.0	17.9	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1242	22.4	U	56.0	22.4	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
<b>Aroclor-1248</b>	<b>260</b>		56.0	19.0	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1254	15.7	U	56.0	15.7	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
<b>Aroclor-1260</b>	<b>55.4</b>	<b>J</b>	56.0	20.2	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1262	8.96	U	56.0	8.96	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1268	22.4	U	56.0	22.4	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
<b>Polychlorinated biphenyls, Total</b>	<b>315</b>		56.0	26.9	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		14 - 128	11/10/17 09:13	11/13/17 19:40	1
DCB Decachlorobiphenyl	113		10 - 132	11/10/17 09:13	11/13/17 19:40	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>92.1</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>7.9</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-127**

**Date Collected: 11/01/17 09:32**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.0	U	60.4	29.0	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1221	27.8	U	60.4	27.8	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1232	19.3	U	60.4	19.3	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1242	24.2	U	60.4	24.2	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1248	20.5	U	60.4	20.5	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1254	16.9	U	60.4	16.9	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1260	21.8	U	60.4	21.8	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1262	9.67	U	60.4	9.67	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1268	24.2	U	60.4	24.2	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Polychlorinated biphenyls, Total	29.0	U	60.4	29.0	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	98		14 - 128	11/10/17 09:13	11/13/17 19:58	1
DCB Decachlorobiphenyl	109		10 - 132	11/10/17 09:13	11/13/17 19:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.9		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SL01-(0-0.5')-FD**

**Lab Sample ID: 240-87591-128**

**Date Collected: 11/01/17 09:32**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 84.6**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.3	U	59.0	28.3	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1221	27.1	U	59.0	27.1	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1232	18.9	U	59.0	18.9	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1242	23.6	U	59.0	23.6	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1248	20.0	U	59.0	20.0	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1254	16.5	U	59.0	16.5	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1260	21.2	U	59.0	21.2	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1262	9.43	U	59.0	9.43	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1268	23.6	U	59.0	23.6	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Polychlorinated biphenyls, Total	28.3	U	59.0	28.3	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	71		14 - 128	11/10/17 10:03	11/14/17 13:18	1
DCB Decachlorobiphenyl	95		10 - 132	11/10/17 10:03	11/14/17 13:18	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.6		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.4		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.14-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-129**

**Date Collected: 11/01/17 10:01**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 87.6**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	137	U	285	137	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1221	131	U	285	131	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1232	91.4	U	285	91.4	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1242	114	U	285	114	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
<b>Aroclor-1248</b>	<b>2150</b>		285	97.1	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1254	79.9	U	285	79.9	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
<b>Aroclor-1260</b>	<b>337</b>		285	103	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1262	45.7	U	285	45.7	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1268	114	U	285	114	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
<b>Polychlorinated biphenyls, Total</b>	<b>2490</b>		285	137	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	11/10/17 09:13	11/14/17 16:12	5
DCB Decachlorobiphenyl	99		10 - 132	11/10/17 09:13	11/14/17 16:12	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.6</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>12.4</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: WATER DRUM**

**Lab Sample ID: 240-87591-130**

**Date Collected: 11/01/17 16:26**

**Matrix: Water**

**Date Received: 11/07/17 17:00**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.192	U	0.385	0.192	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1221	0.346	U	0.385	0.346	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1232	0.260	U	0.385	0.260	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1242	0.240	U	0.385	0.240	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1248	0.192	U	0.385	0.192	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1254	0.125	U	0.385	0.125	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1260	0.154	U	0.385	0.154	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1262	0.212	U	0.385	0.212	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1268	0.346	U	0.385	0.346	ug/L		11/08/17 13:53	11/09/17 21:37	1
Polychlorinated biphenyls, Total	0.346	U	0.385	0.346	ug/L		11/08/17 13:53	11/09/17 21:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	54		32 - 120				11/08/17 13:53	11/09/17 21:37	1
DCB Decachlorobiphenyl	15	X	16 - 120				11/08/17 13:53	11/09/17 21:37	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: SOIL-SED DRUM**

**Lab Sample ID: 240-87591-131**

**Date Collected: 11/03/17 12:21**

**Matrix: Sediment**

**Date Received: 11/07/17 17:00**

**Percent Solids: 88.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.3	U	56.9	27.3	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1221	26.2	U	56.9	26.2	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1232	18.2	U	56.9	18.2	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1242	22.7	U	56.9	22.7	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
<b>Aroclor-1248</b>	<b>1220</b>		56.9	19.3	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1254	15.9	U	56.9	15.9	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
<b>Aroclor-1260</b>	<b>87.6</b>		56.9	20.5	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1262	9.10	U	56.9	9.10	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1268	22.7	U	56.9	22.7	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
<b>Polychlorinated biphenyls, Total</b>	<b>1310</b>		56.9	27.3	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	11/11/17 10:25	11/13/17 15:30	1
DCB Decachlorobiphenyl	85		10 - 132	11/11/17 10:25	11/13/17 15:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>88.7</b>		0.1	0.1	%			11/09/17 07:46	1
<b>Percent Moisture</b>	<b>11.3</b>		0.1	0.1	%			11/09/17 07:46	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: EQUIP RINSATE**

**Lab Sample ID: 240-87591-132**

**Date Collected: 11/02/17 16:58**

**Matrix: Water**

**Date Received: 11/07/17 17:00**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.179	U	0.357	0.179	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1221	0.321	U	0.357	0.321	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1232	0.241	U	0.357	0.241	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1242	0.223	U	0.357	0.223	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1248	0.179	U	0.357	0.179	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1254	0.116	U	0.357	0.116	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1260	0.143	U	0.357	0.143	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1262	0.196	U	0.357	0.196	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1268	0.321	U	0.357	0.321	ug/L		11/08/17 13:53	11/09/17 21:55	1
Polychlorinated biphenyls, Total	0.321	U	0.357	0.321	ug/L		11/08/17 13:53	11/09/17 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	73		32 - 120	11/08/17 13:53	11/09/17 21:55	1
DCB Decachlorobiphenyl	81		16 - 120	11/08/17 13:53	11/09/17 21:55	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00-72-SL01-(0-0.5')-FD**

**Lab Sample ID: 240-87591-133**

**Date Collected: 10/31/17 14:05**

**Matrix: Solid**

**Date Received: 11/07/17 17:00**

**Percent Solids: 77.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	31.4	U	65.3	31.4	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1221	30.0	U	65.3	30.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1232	20.9	U	65.3	20.9	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1242	26.1	U	65.3	26.1	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1248	22.2	U	65.3	22.2	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1254	18.3	U	65.3	18.3	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1260	23.5	U	65.3	23.5	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1262	10.5	U	65.3	10.5	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1268	26.1	U	65.3	26.1	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Polychlorinated biphenyls, Total	31.4	U	65.3	31.4	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	75		14 - 128	11/10/17 10:03	11/14/17 14:39	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 10:03	11/14/17 14:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	22.8		0.1	0.1	%			11/09/17 07:46	1

# Surrogate Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Matrix: Sediment**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCB1 (10-132)	DCB2 (10-132)
240-87591-1	ED-00.08-SD02-(0-0.45')		68		80
240-87591-2	ED-00.08-SD02-(0.45-.75')		87		100
240-87591-3	ED-00.08-SD02-(0.75-1.4')		73		82
240-87591-4	ED-00.08-SD02-(0.75-1.4')-FD		69		81
240-87591-5	ED-00.08-SD02-(1.4-2.03')		107		151 X
240-87591-6	ED-00.25-SD01-(0.0-57')		80		99
240-87591-7	ED-00.25-SD01-(0.57-3.51')		69		79
240-87591-8	ED-00.25-SD01-(3.51-4.3')	166 X	82 p	40 p	107
240-87591-9	ED-00.25-SD01-(3.51-4.3')-DUP	203 X	106 p	53 p	148 X
240-87591-10	ED-00.39-SD02-(0-2.20')		76		92
240-87591-10 MS	ED-00.39-SD02-(0-2.20')		76		87
240-87591-10 MSD	ED-00.39-SD02-(0-2.20')		76		81
240-87591-11	ED-00.39-SD02-(2.20-2.41')		93		128
240-87591-12	ED-00.39-SD02-(2.41-3.54')		78		100
240-87591-13	ED-00.39-SD02-(3.54-4.30')		100		113
240-87591-14	ED-00.47-SD02-(0-0.33')		68		76
240-87591-15	ED-00.47-SD02-(33-1.46')		73		87
240-87591-16	ED-00.47-SD02-(1.46-1.96')		64		71
240-87591-17	ED-00.47-SD02-(1.96-3.13')		75		89
240-87591-18	ED-00.51-SD02-(0-0.36')		67		79
240-87591-19	ED-00.51-SD02-(0.36-0.68')		70		121
240-87591-20	ED-00.51-SD02-(0.68-1.65')	48 p		47 p	
240-87591-21	ED-00.51-SD02-(1.65-1.75')	61		60 p	
240-87591-22	ED-00.60-SD02-(0-1.76')	73		91	
240-87591-22 MS	ED-00.60-SD02-(0-1.76')	89		95	
240-87591-22 MSD	ED-00.60-SD02-(0-1.76')	97		86	
240-87591-23	ED-00.60-SD02-(1.76-2.22')	145 X		51 p	
240-87591-24	ED-00.60-SD02-(2.22-2.39')	98		94	
240-87591-25	ED-00.60-SD02-(2.39-2.63')	85		97	
240-87591-26	ED-00.60-SD02-(2.63-3.30')	93		191 X	
240-87591-27	ED-00.72-SD03-(0-2.06')	73		88	
240-87591-28	ED-00.72-SD03-(2.06-2.40')	89		84	
240-87591-29	ED-00.72-SD03-(2.40-3.50')	218 X		128	
240-87591-30	ED-00.72-SD03-(3.50-3.84')	170 X		114	
240-87591-31	ED-00.72-SD03-(3.84-4.05')	219 X		122	
240-87591-32	ED-00.72-SD03-(4.05-4.30')	171 X		108	
240-87591-33	ED-00.72-SD03-(2.40-3.50)-FD	217 X		108	
240-87591-34	ED-00.82-SD02-(0-0.39')	74		72	
240-87591-34 MS	ED-00.82-SD02-(0-0.39')	83		82	
240-87591-34 MSD	ED-00.82-SD02-(0-0.39')	94		78	
240-87591-35	ED-00.82-SD02-(0.39-0.70')	74		78	
240-87591-36	ED.01.03-SD02-(0-0.98)	74		69	
240-87591-37	ED.01.03-SD02-(0-0.98)-FD	87		108	
240-87591-38	ED-01.03-SD02-(0.98-1.65')	578 X		0 X	
240-87591-39	ED-01.03-SD02-(0.98-1.65')-FD	250 X		110	
240-87591-40	ED-01.03-SD02-(1.65-1.87')	186 X		91 p	
240-87591-41	ED-01.03-SD02-(1.87-2.25')	97		102	
240-87591-42	ED-01.14-SD02-(0-1.05')	73		73	
240-87591-43	ED-01.22-SD02-(0-0.17')	75		72 p	

TestAmerica Canton

# Surrogate Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Matrix: Sediment**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCB1 (10-132)	DCB2 (10-132)
240-87591-44	ED-01.22-SD02-(0.17-0.29')	76		77	
240-87591-45	ED-01.37-SD02-(0-0.9')	81		79	
240-87591-46	ED-01.49-SD03-(0-0.70')	70		91	
240-87591-131	SOIL-SED DRUM	80		85	
LCS 240-303031/24-A	Lab Control Sample		74		80
LCS 240-303095/24-A	Lab Control Sample	94		121	
LCS 240-303098/24-A	Lab Control Sample	98		98	
MB 240-303031/23-A	Method Blank		72		76
MB 240-303095/23-A	Method Blank	82		104	
MB 240-303098/23-A	Method Blank	95		103	

**Surrogate Legend**  
 TCX = Tetrachloro-m-xylene  
 DCB = DCB Decachlorobiphenyl

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Matrix: Solid**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCB1 (10-132)	DCB2 (10-132)
240-87591-47	ED-00.82-SOL04-(0-0.13')		84		99
240-87591-48	ED-00.82-SOL04-(0.13-0.5)		69		87
240-87591-49	ED-00.72-SL01-(0-0.50')		75		95
240-87591-50	ED-00.72-SL01-(0.50-1.0')		74		87
240-87591-51	ED-00.60-SL03-(0-0.89')	85	86	95	85
240-87591-51 MS	ED-00.60-SL03-(0-0.89')		82		79
240-87591-51 MSD	ED-00.60-SL03-(0-0.89')		81		82
240-87591-52	ED-00.60-SL03-(0.89-1.0')		77		89
240-87591-53	ED-0060.SL01-(0-0.19')		79		113
240-87591-54	ED-0060.SL01-(0.19-1.0')		73		88
240-87591-55	ED-00.51-SL03-(0-0.5')		77		0 X
240-87591-56	ED-00.51-SL03-(0.5-1.0')		78		38
240-87591-57	ED-00.51-SL03-(0-0.5')-FD		76		115
240-87591-58	ED-00.51-SL01-(0-0.5')		77		95
240-87591-59	ED-00.51.SL01-(0.5-1.0')		79		93
240-87591-60	ED-00.47-SL04-(0-0.80')		68		84
240-87591-61	ED-00.47-SL03-(0-0.77')		73		84
240-87591-62	ED-00.47-SL03-(0-0.77')-FD		69		81
240-87591-63	ED-00.47-SL01-(0-0.5')		69		88
240-87591-64	ED-00.39-SL04-(0-0.50')		75		12 p
240-87591-65	ED-00.39-SL04-(0.50-1.0')		75		87
240-87591-66	ED-00.39-SL03-(0-0.69')		82		94 p
240-87591-67	ED-00.39-SL03-(0-0.69')-FD	100	112	119	105
240-87591-68	ED-00.39-SL03-(0.69-0.98')	80		86	
240-87591-69	ED-00.39-SL03-(0.98-1.17')		68		96
240-87591-70	ED-00.39-SL03-(1.17-1.5')	82		84	
240-87591-71	ED-00.39-SL01-(0-0.5')	77		81	
240-87591-71 MS	ED-00.39-SL01-(0-0.5')	91		91	

TestAmerica Canton

# Surrogate Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCB1 (10-132)	DCB2 (10-132)
240-87591-71 MSD	ED-00.39-SL01-(0-0.5')	84		92	
240-87591-72	ED-00.39-SL01-(0.5-1.0')		81		90
240-87591-73	ED-00.25-SL04-(0-0.5')	83		107	
240-87591-74	ED-00.25-SL04-(0.5-1.0')	88		129	
240-87591-75	ED-00.25-SL04-(1.0-1.5")	88		103	
240-87591-76	ED-00.25-SL04-(1.5-2.0')	89		124	
240-87591-77	ED-00.25-SL03-(0.0.5')	98		147 X	
240-87591-78	ED-00.25-SL03-(0.5-1.0')	90		204 X	
240-87591-79	ED-00.25-SL02-(0-0.5')	87		269 X	
240-87591-80	ED-00.25-SL02-(0-0.5')-FD	95		160 X	
240-87591-81	ED-00.25-SL02-(0.5-1.0')	86		106	
240-87591-82	ED-00.25-SL02-(1.0-1.5')	79		105	
240-87591-83	ED-00.08-SL03-(0-0.5')	85		169 X	
240-87591-84	ED-00.08-SL03-(0.5-0.97')	83		131	
240-87591-85	ED-00.08-SL03-(0.97-1..47')	94		178 X	
240-87591-85 MS	ED-00.08-SL03-(0.97-1..47')	112		109 p	
240-87591-85 MSD	ED-00.08-SL03-(0.97-1..47')	107		108	
240-87591-86	ED-00.08-SL03-(1.5-2.0')	98		110	
240-87591-87	ED-00.08-SL04-(0-0.67)	91		112	
240-87591-88	ED-00.08-SL04-(0.67-0.86)	83		161 X	
240-87591-89	ED-00.08-SL04-(0.86-1.36)		74		93
240-87591-90	ED-00.08-SL04-(1.5-2.0')		72		86
240-87591-91	ED-00.08-SL01-(0-0.5')	68	66	95	91
240-87591-91 MS	ED-00.08-SL01-(0-0.5')		66		84
240-87591-91 MSD	ED-00.08-SL01-(0-0.5')		68		93
240-87591-92	ED-00.08-SL01-(0.5-1.0')		62		83
240-87591-93	ED-00.08-SL01-(1.0-1.86')		78		97
240-87591-94	ED-00.08-SL01-(1.86-2.0')		70		82
240-87591-95	ED-01.37-SL03-(0-0.27')		72		91
240-87591-96	ED-01.37-SL03-(0.27-0.92')		74		91
240-87591-97	ED-01.37-SL03-(0.92-1.07')		64		82
240-87591-98	ED-01.37-SL03-(1.07-2.0')		73		94
240-87591-99	ED-01.49-SL04-(0-0.5')		67		79
240-87591-100	ED-01.49-SL04-(0.5-1.0')		72		85 p
240-87591-101	ED-01.49-SL04-(1.0-1.81')		67		85 p
240-87591-102	ED-01.49-SL04-(1.81-2.0')		69		88
240-87591-103	ED-00.72-SL02-(0-0.5)		67		128 p
240-87591-104	ED-00.72-SL02-(0.5-1.0')		71		94
240-87591-105	ED-00.72-SL02-(1.0-1.5')		72		102
240-87591-106	ED-01.24-SL01-(0-0.87')		71		108 p
240-87591-107	ED-01.24-SL01-(0.87-1.0')		75		77
240-87591-108	ED-01.14-SL03-(0-0.5')		71		81
240-87591-109	ED-01.14-SL03-(0.5-1.0')		80		99
240-87591-110	ED-01.14-SL03-(0.5-1.0')-FD		82		101
240-87591-111	ED-01.49-SL02-(0-0.5')		73		85
240-87591-112	ED-01.49-SL02-(0.5-1.0')		72		87
240-87591-113	ED-01.37-SL01-(0-0.9')		86		91
240-87591-114	ED-01.37-SL01-(0-0.9')-FD		76		86
240-87591-115	ED-01.03-SL03-(0-0.21')		76		82

TestAmerica Canton

# Surrogate Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Matrix: Solid**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCB1 (10-132)	DCB2 (10-132)
240-87591-116	ED-01.03-SL03-(0.21-1.0')		74		84
240-87591-117	ED-00.82-SL03-(0-0.5')		80		84
240-87591-118	ED-00.82-SL03-(0.5-1.0')		76		384 X
240-87591-119	ED-00.72-SL04-(0-0.11')		83		99
240-87591-120	ED-00.72-SL04-(0.11-0.47')		71		91
240-87591-121	ED-00.72-SL04-(0.47-1.0')		74		87
240-87591-122	ED-01.49-SL01-(0-0.5')		79		90
240-87591-123	ED-01.49-SL01-(0-0.5')-FD		78		88
240-87591-123 MS	ED-01.49-SL01-(0-0.5')-FD		88		95
240-87591-123 MSD	ED-01.49-SL01-(0-0.5')-FD		78		86
240-87591-124	ED-01.24-SL03-(0-0.5')	81		108	
240-87591-125	ED-00.82-SL01-(0-0.22')	88		87	
240-87591-126	ED-00.82-SL01-(0.22-0.5')	93		113	
240-87591-127	ED-01.03-SL01-(0-0.5')	98		109	
240-87591-128	ED-01.03-SL01-(0-0.5')-FD		71		95
240-87591-129	ED-01.14-SL01-(0-0.5')	75		99	
240-87591-129 MS	ED-01.14-SL01-(0-0.5')	80		100	
240-87591-129 MSD	ED-01.14-SL01-(0-0.5')	80		98	
240-87591-133	ED-00.72-SL01-(0-0.5')-FD		75		91
LCS 240-302635/20-A	Lab Control Sample	91		118	
LCS 240-302802/24-A	Lab Control Sample		86		87
LCS 240-302857/8-A	Lab Control Sample	75		90	
LCS 240-302955/24-A	Lab Control Sample		80		92
LCS 240-302976/24-A	Lab Control Sample	82		94	
LCS 240-302991/24-A	Lab Control Sample		66		83
MB 240-302635/19-A	Method Blank	83		134 X	
MB 240-302802/23-A	Method Blank		84		83
MB 240-302857/7-A	Method Blank	76		81	
MB 240-302955/23-A	Method Blank		67		79
MB 240-302976/23-A	Method Blank	86		96	
MB 240-302991/23-A	Method Blank		71		87

**Surrogate Legend**

TCX = Tetrachloro-m-xylene  
 DCB = DCB Decachlorobiphenyl

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (32-120)	DCB2 (16-120)
240-87591-130	WATER DRUM	54	15 X
240-87591-132	EQUIP RINSATE	73	81
LCS 240-302648/4-A	Lab Control Sample	77	76
MB 240-302648/3-A	Method Blank	77	76

**Surrogate Legend**

TCX = Tetrachloro-m-xylene  
 DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 240-302635/19-A**  
**Matrix: Solid**  
**Analysis Batch: 302905**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 302635**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	11/08/17 13:17	11/10/17 13:56	1
DCB Decachlorobiphenyl	134	X	10 - 132	11/08/17 13:17	11/10/17 13:56	1

**Lab Sample ID: LCS 240-302635/20-A**  
**Matrix: Solid**  
**Analysis Batch: 302905**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 302635**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	715.3		ug/Kg		72	47 - 120
Aroclor-1260	1000	883.1		ug/Kg		88	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	91		14 - 128
DCB Decachlorobiphenyl	118		10 - 132

**Lab Sample ID: 240-87591-85 MS**  
**Matrix: Solid**  
**Analysis Batch: 302905**

**Client Sample ID: ED-00.08-SL03-(0.97-1..47')**  
**Prep Type: Total/NA**  
**Prep Batch: 302635**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	2900	U	1200	18500		ug/Kg	☼	NC	31 - 120
Aroclor-1260	3090	J F1 F2	1200	3394	J p	ug/Kg	☼	25	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	112		14 - 128
DCB Decachlorobiphenyl	109	p	10 - 132

**Lab Sample ID: 240-87591-85 MSD**  
**Matrix: Solid**  
**Analysis Batch: 302905**

**Client Sample ID: ED-00.08-SL03-(0.97-1..47')**  
**Prep Type: Total/NA**  
**Prep Batch: 302635**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	2900	U	1190	14700		ug/Kg	☼	NC	31 - 120	23	30
Aroclor-1260	2720	J F1	1190	4805	J F1	ug/Kg	☼	175	21 - 122	12	30

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 240-87591-85 MSD**  
**Matrix: Solid**  
**Analysis Batch: 302905**

**Client Sample ID: ED-00.08-SL03-(0.97-1..47')**  
**Prep Type: Total/NA**  
**Prep Batch: 302635**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	107		14 - 128
DCB Decachlorobiphenyl	108		10 - 132

**Lab Sample ID: MB 240-302648/3-A**  
**Matrix: Water**  
**Analysis Batch: 302884**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 302648**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.200	U	0.400	0.200	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1221	0.360	U	0.400	0.360	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1232	0.270	U	0.400	0.270	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1242	0.250	U	0.400	0.250	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1248	0.200	U	0.400	0.200	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1254	0.130	U	0.400	0.130	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1260	0.160	U	0.400	0.160	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1262	0.220	U	0.400	0.220	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1268	0.360	U	0.400	0.360	ug/L		11/08/17 13:53	11/09/17 22:13	1
Polychlorinated biphenyls, Total	0.360	U	0.400	0.360	ug/L		11/08/17 13:53	11/09/17 22:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		32 - 120	11/08/17 13:53	11/09/17 22:13	1
DCB Decachlorobiphenyl	76		16 - 120	11/08/17 13:53	11/09/17 22:13	1

**Lab Sample ID: LCS 240-302648/4-A**  
**Matrix: Water**  
**Analysis Batch: 302884**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 302648**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	10.0	6.227		ug/L		62	38 - 120
Aroclor-1260	10.0	6.091		ug/L		61	42 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	77		32 - 120
DCB Decachlorobiphenyl	76		16 - 120

**Lab Sample ID: MB 240-302802/23-A**  
**Matrix: Solid**  
**Analysis Batch: 303080**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 302802**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 240-302802/23-A**  
**Matrix: Solid**  
**Analysis Batch: 303080**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 302802**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		14 - 128	11/09/17 10:58	11/11/17 15:05	1
DCB Decachlorobiphenyl	83		10 - 132	11/09/17 10:58	11/11/17 15:05	1

**Lab Sample ID: LCS 240-302802/24-A**  
**Matrix: Solid**  
**Analysis Batch: 303080**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 302802**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	704.4		ug/Kg		70	47 - 120
Aroclor-1260	1000	752.3		ug/Kg		75	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	86		14 - 128
DCB Decachlorobiphenyl	87		10 - 132

**Lab Sample ID: 240-87591-51 MS**  
**Matrix: Solid**  
**Analysis Batch: 303080**

**Client Sample ID: ED-00.60-SL03-(0-0.89)**  
**Prep Type: Total/NA**  
**Prep Batch: 302802**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	29.4	U	1240	825.1		ug/Kg	☼	67	31 - 120
Aroclor-1260	22.1	U	1240	849.1		ug/Kg	☼	69	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	82		14 - 128
DCB Decachlorobiphenyl	79		10 - 132

**Lab Sample ID: 240-87591-51 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303080**

**Client Sample ID: ED-00.60-SL03-(0-0.89)**  
**Prep Type: Total/NA**  
**Prep Batch: 302802**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	29.4	U	1230	779.2		ug/Kg	☼	63	31 - 120	6	30
Aroclor-1260	22.1	U	1230	847.3		ug/Kg	☼	69	21 - 122	0	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	81		14 - 128
DCB Decachlorobiphenyl	82		10 - 132

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 240-302857/7-A**  
**Matrix: Solid**  
**Analysis Batch: 303043**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 302857**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/09/17 14:18	11/10/17 18:12	1
DCB Decachlorobiphenyl	81		10 - 132	11/09/17 14:18	11/10/17 18:12	1

**Lab Sample ID: LCS 240-302857/8-A**  
**Matrix: Solid**  
**Analysis Batch: 303043**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 302857**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	613.7		ug/Kg		61	47 - 120
Aroclor-1260	1000	728.7		ug/Kg		73	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	75		14 - 128
DCB Decachlorobiphenyl	90		10 - 132

**Lab Sample ID: 240-87591-71 MS**  
**Matrix: Solid**  
**Analysis Batch: 303043**

**Client Sample ID: ED-00.39-SL01-(0-0.5')**  
**Prep Type: Total/NA**  
**Prep Batch: 302857**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	28.0	U	1150	753.7		ug/Kg	☼	65	31 - 120
Aroclor-1260	21.0	U	1150	851.4		ug/Kg	☼	74	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	91		14 - 128
DCB Decachlorobiphenyl	91		10 - 132

**Lab Sample ID: 240-87591-71 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303043**

**Client Sample ID: ED-00.39-SL01-(0-0.5')**  
**Prep Type: Total/NA**  
**Prep Batch: 302857**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	28.0	U	1150	735.1		ug/Kg	☼	64	31 - 120	3	30
Aroclor-1260	21.0	U	1150	850.9		ug/Kg	☼	74	21 - 122	0	30

TestAmerica Canton

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 240-87591-71 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303043**

**Client Sample ID: ED-00.39-SL01-(0-0.5')**  
**Prep Type: Total/NA**  
**Prep Batch: 302857**

Surrogate	MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	84		14 - 128
DCB Decachlorobiphenyl	92		10 - 132

**Lab Sample ID: MB 240-302955/23-A**  
**Matrix: Solid**  
**Analysis Batch: 303313**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 302955**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	67		14 - 128	11/10/17 08:32	11/14/17 17:08	1
DCB Decachlorobiphenyl	79		10 - 132	11/10/17 08:32	11/14/17 17:08	1

**Lab Sample ID: LCS 240-302955/24-A**  
**Matrix: Solid**  
**Analysis Batch: 303313**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 302955**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	651.8		ug/Kg		65	47 - 120
Aroclor-1260	1000	698.5		ug/Kg		70	46 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	80		14 - 128
DCB Decachlorobiphenyl	92		10 - 132

**Lab Sample ID: 240-87591-123 MS**  
**Matrix: Solid**  
**Analysis Batch: 303313**

**Client Sample ID: ED-01.49-SL01-(0-0.5')-FD**  
**Prep Type: Total/NA**  
**Prep Batch: 302955**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	27.9	U	1180	810.4		ug/Kg	☼	69	31 - 120
Aroclor-1260	20.9	U	1180	857.5		ug/Kg	☼	73	21 - 122

Surrogate	MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	88		14 - 128
DCB Decachlorobiphenyl	95		10 - 132

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 240-87591-123 MSD**

**Matrix: Solid**  
**Analysis Batch: 303313**

**Client Sample ID: ED-01.49-SL01-(0-0.5')-FD**

**Prep Type: Total/NA**  
**Prep Batch: 302955**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Aroclor-1016	27.9	U	1180	763.5		ug/Kg	☼	65	31 - 120	6	30
Aroclor-1260	20.9	U	1180	784.3		ug/Kg	☼	67	21 - 122	9	30
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
Tetrachloro-m-xylene	78		14 - 128								
DCB Decachlorobiphenyl	86		10 - 132								

**Lab Sample ID: MB 240-302976/23-A**

**Matrix: Solid**  
**Analysis Batch: 303214**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**  
**Prep Batch: 302976**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
<b>MB MB</b>										
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil</b>	<b>Fac</b>			
Tetrachloro-m-xylene	86		14 - 128	11/10/17 09:13	11/13/17 18:47		1			
DCB Decachlorobiphenyl	96		10 - 132	11/10/17 09:13	11/13/17 18:47		1			

**Lab Sample ID: LCS 240-302976/24-A**

**Matrix: Solid**  
**Analysis Batch: 303214**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**  
**Prep Batch: 302976**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
		Added	Result				
Aroclor-1016	1000	634.3		ug/Kg		63	47 - 120
Aroclor-1260	1000	763.9		ug/Kg		76	46 - 120
<b>LCS LCS</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
Tetrachloro-m-xylene	82		14 - 128				
DCB Decachlorobiphenyl	94		10 - 132				

**Lab Sample ID: 240-87591-129 MS**

**Matrix: Solid**  
**Analysis Batch: 303311**

**Client Sample ID: ED-01.14-SL01-(0-0.5')**

**Prep Type: Total/NA**  
**Prep Batch: 302976**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Aroclor-1016	137	U	1130	1160		ug/Kg	☼	103	31 - 120
Aroclor-1260	337		1130	1202		ug/Kg	☼	76	21 - 122

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 240-87591-129 MS**  
**Matrix: Solid**  
**Analysis Batch: 303311**

**Client Sample ID: ED-01.14-SL01-(0-0.5')**  
**Prep Type: Total/NA**  
**Prep Batch: 302976**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	80		14 - 128
DCB Decachlorobiphenyl	100		10 - 132

**Lab Sample ID: 240-87591-129 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303311**

**Client Sample ID: ED-01.14-SL01-(0-0.5')**  
**Prep Type: Total/NA**  
**Prep Batch: 302976**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Aroclor-1016	137	U	1130	1242		ug/Kg	☼	110	31 - 120	7	30
Aroclor-1260	309		1130	1190		ug/Kg	☼	78	21 - 122	4	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	80		14 - 128
DCB Decachlorobiphenyl	98		10 - 132

**Lab Sample ID: MB 240-302991/23-A**  
**Matrix: Solid**  
**Analysis Batch: 303305**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 302991**

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier					Time	Time	Time	Time	
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/10/17 10:03	11/14/17 13:39	13:39	13:39	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/10/17 10:03	11/14/17 13:39	13:39	13:39	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/10/17 10:03	11/14/17 13:39	13:39	13:39	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/10/17 10:03	11/14/17 13:39	13:39	13:39	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/10/17 10:03	11/14/17 13:39	13:39	13:39	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/10/17 10:03	11/14/17 13:39	13:39	13:39	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/10/17 10:03	11/14/17 13:39	13:39	13:39	1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/10/17 10:03	11/14/17 13:39	13:39	13:39	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/10/17 10:03	11/14/17 13:39	13:39	13:39	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/10/17 10:03	11/14/17 13:39	13:39	13:39	1

Surrogate	MB MB		Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier		Time	Time	Time	Time	
Tetrachloro-m-xylene	71		14 - 128	11/10/17 10:03	11/14/17 13:39	13:39	13:39	1
DCB Decachlorobiphenyl	87		10 - 132	11/10/17 10:03	11/14/17 13:39	13:39	13:39	1

**Lab Sample ID: LCS 240-302991/24-A**  
**Matrix: Solid**  
**Analysis Batch: 303305**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 302991**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aroclor-1016	1000	575.0		ug/Kg		57	47 - 120
Aroclor-1260	1000	674.1		ug/Kg		67	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	66		14 - 128
DCB Decachlorobiphenyl	83		10 - 132

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 240-87591-91 MS**

**Matrix: Solid**  
**Analysis Batch: 303305**

**Client Sample ID: ED-00.08-SL01-(0-0.5')**

**Prep Type: Total/NA**  
**Prep Batch: 302991**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Aroclor-1016	30.0	U	1260	684.4		ug/Kg	☼	54	31 - 120
Aroclor-1260	28.5	J p	1260	893.0		ug/Kg	☼	69	21 - 122
<b>MS MS</b>									
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	66		14 - 128						
DCB Decachlorobiphenyl	84		10 - 132						

**Lab Sample ID: 240-87591-91 MSD**

**Matrix: Solid**  
**Analysis Batch: 303305**

**Client Sample ID: ED-00.08-SL01-(0-0.5')**

**Prep Type: Total/NA**  
**Prep Batch: 302991**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Aroclor-1016	30.0	U	1260	717.7		ug/Kg	☼	57	31 - 120	5	30
Aroclor-1260	28.5	J p	1260	965.0		ug/Kg	☼	74	21 - 122	8	30
<b>MSD MSD</b>											
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	68		14 - 128								
DCB Decachlorobiphenyl	93		10 - 132								

**Lab Sample ID: MB 240-303031/23-A**

**Matrix: Sediment**  
**Analysis Batch: 303227**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**  
**Prep Batch: 303031**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
<b>MB MB</b>											
Surrogate	%Recovery	Qualifier	Limits	Prepared		Analyzed		Dil Fac			
Tetrachloro-m-xylene	72		14 - 128	11/10/17 12:42	11/14/17 01:36				1		
DCB Decachlorobiphenyl	76		10 - 132	11/10/17 12:42	11/14/17 01:36				1		

**Lab Sample ID: LCS 240-303031/24-A**

**Matrix: Sediment**  
**Analysis Batch: 303227**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**  
**Prep Batch: 303031**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1260	1000	625.9		ug/Kg		63	46 - 120

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 240-303031/24-A**  
**Matrix: Sediment**  
**Analysis Batch: 303227**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303031**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	74		14 - 128
DCB Decachlorobiphenyl	80		10 - 132

**Lab Sample ID: 240-87591-10 MS**  
**Matrix: Sediment**  
**Analysis Batch: 303227**

**Client Sample ID: ED-00.39-SD02-(0-2.20')**  
**Prep Type: Total/NA**  
**Prep Batch: 303031**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Aroclor-1016	30.6	U	1260	1127		ug/Kg	☼	90	31 - 120
Aroclor-1260	35.1	J	1260	817.9		ug/Kg	☼	62	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	76		14 - 128
DCB Decachlorobiphenyl	87		10 - 132

**Lab Sample ID: 240-87591-10 MSD**  
**Matrix: Sediment**  
**Analysis Batch: 303227**

**Client Sample ID: ED-00.39-SD02-(0-2.20')**  
**Prep Type: Total/NA**  
**Prep Batch: 303031**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Aroclor-1016	30.6	U	1290	1199		ug/Kg	☼	93	31 - 120	6	30
Aroclor-1260	23.0	U	1290	845.5		ug/Kg	☼	66	21 - 122	2	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	76		14 - 128
DCB Decachlorobiphenyl	81		10 - 132

**Lab Sample ID: MB 240-303095/23-A**  
**Matrix: Sediment**  
**Analysis Batch: 303127**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303095**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil	Fac
	%Recovery	Qualifier					
Tetrachloro-m-xylene	82		14 - 128	11/11/17 09:19	11/13/17 15:32	1	
DCB Decachlorobiphenyl	104		10 - 132	11/11/17 09:19	11/13/17 15:32	1	

TestAmerica Canton

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 240-303095/24-A**  
**Matrix: Sediment**  
**Analysis Batch: 303127**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303095**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	733.4		ug/Kg		73	47 - 120
Aroclor-1260	1000	811.1		ug/Kg		81	46 - 120
		LCS %Recovery	LCS Qualifier	Limits			
Tetrachloro-m-xylene		94		14 - 128			
DCB Decachlorobiphenyl		121		10 - 132			

**Lab Sample ID: 240-87591-22 MS**  
**Matrix: Sediment**  
**Analysis Batch: 303440**

**Client Sample ID: ED-00.60-SD02-(0-1.76')**  
**Prep Type: Total/NA**  
**Prep Batch: 303095**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	27.9	U	1200	1839	F1	ug/Kg	☼	153	31 - 120
Aroclor-1260	31.6	J	1200	848.2		ug/Kg	☼	68	21 - 122
		MS %Recovery	MS Qualifier	Limits					
Tetrachloro-m-xylene		89		14 - 128					
DCB Decachlorobiphenyl		95		10 - 132					

**Lab Sample ID: 240-87591-22 MSD**  
**Matrix: Sediment**  
**Analysis Batch: 303440**

**Client Sample ID: ED-00.60-SD02-(0-1.76')**  
**Prep Type: Total/NA**  
**Prep Batch: 303095**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Aroclor-1016	27.9	U	1190	1624	F1	ug/Kg	☼	136	31 - 120	12	30
Aroclor-1260	31.6	J	1190	832.2		ug/Kg	☼	67	21 - 122	2	30
		MSD %Recovery	MSD Qualifier	Limits							
Tetrachloro-m-xylene		97		14 - 128							
DCB Decachlorobiphenyl		86		10 - 132							

**Lab Sample ID: MB 240-303098/23-A**  
**Matrix: Sediment**  
**Analysis Batch: 303135**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303098**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1

TestAmerica Canton

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-303098/23-A  
Matrix: Sediment  
Analysis Batch: 303135

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 303098

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	95		14 - 128	11/11/17 10:25	11/13/17 08:47	1
DCB Decachlorobiphenyl	103		10 - 132	11/11/17 10:25	11/13/17 08:47	1

Lab Sample ID: LCS 240-303098/24-A  
Matrix: Sediment  
Analysis Batch: 303135

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 303098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	742.3		ug/Kg		74	47 - 120
Aroclor-1260	1000	814.1		ug/Kg		81	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	98		14 - 128
DCB Decachlorobiphenyl	98		10 - 132

Lab Sample ID: 240-87591-34 MS  
Matrix: Sediment  
Analysis Batch: 303135

Client Sample ID: ED-00.82-SD02-(0-0.39')  
Prep Type: Total/NA  
Prep Batch: 303098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	29.8	U F1	1240	2109	F1	ug/Kg	☼	171	31 - 120
Aroclor-1260	22.3	U	1240	1033		ug/Kg	☼	84	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	83		14 - 128
DCB Decachlorobiphenyl	82		10 - 132

Lab Sample ID: 240-87591-34 MSD  
Matrix: Sediment  
Analysis Batch: 303135

Client Sample ID: ED-00.82-SD02-(0-0.39')  
Prep Type: Total/NA  
Prep Batch: 303098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	29.8	U F1	1240	1768	F1	ug/Kg	☼	143	31 - 120	18	30
Aroclor-1260	22.3	U	1240	890.9		ug/Kg	☼	72	21 - 122	15	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	94		14 - 128
DCB Decachlorobiphenyl	78		10 - 132

## Method: Moisture - Percent Moisture

Lab Sample ID: 240-87591-5 DU  
Matrix: Sediment  
Analysis Batch: 302543

Client Sample ID: ED-00.08-SD02-(1.4-2.03')  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	75.4		78.0		%		3	20

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: Moisture - Percent Moisture (Continued)

**Lab Sample ID: 240-87591-5 DU**  
**Matrix: Sediment**  
**Analysis Batch: 302543**

**Client Sample ID: ED-00.08-SD02-(1.4-2.03')**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	24.6		22.0		%		11	20

**Lab Sample ID: 240-87591-10 DU**  
**Matrix: Sediment**  
**Analysis Batch: 302543**

**Client Sample ID: ED-00.39-SD02-(0-2.20')**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	78.2		78.9		%		0.9	20
Percent Moisture	21.8		21.1		%		3	20

**Lab Sample ID: 240-87591-22 DU**  
**Matrix: Sediment**  
**Analysis Batch: 302543**

**Client Sample ID: ED-00.60-SD02-(0-1.76')**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	83.7		83.7		%		0.07	20
Percent Moisture	16.3		16.3		%		0.4	20

**Lab Sample ID: 240-87591-34 DU**  
**Matrix: Sediment**  
**Analysis Batch: 302543**

**Client Sample ID: ED-00.82-SD02-(0-0.39')**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	81.7		81.5		%		0.3	20
Percent Moisture	18.3		18.5		%		1	20

**Lab Sample ID: 240-87591-39 DU**  
**Matrix: Sediment**  
**Analysis Batch: 302543**

**Client Sample ID: ED-01.03-SD02-(0.98-1.65')-FD**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	80.9		81.9		%		1	20
Percent Moisture	19.1		18.1		%		6	20

**Lab Sample ID: 240-87591-48 DU**  
**Matrix: Solid**  
**Analysis Batch: 302543**

**Client Sample ID: ED-00.82-SOL04-(0.13-0.5)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	91.2		90.8		%		0.4	20
Percent Moisture	8.8		9.2		%		4	20

**Lab Sample ID: 240-87591-51 DU**  
**Matrix: Solid**  
**Analysis Batch: 302543**

**Client Sample ID: ED-00.60-SL03-(0-0.89')**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	80.3		81.3		%		1	20
Percent Moisture	19.7		18.7		%		5	20

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: Moisture - Percent Moisture (Continued)

**Lab Sample ID: 240-87591-65 DU**

**Matrix: Solid**  
**Analysis Batch: 302543**

**Client Sample ID: ED-00.39-SL04-(0.50-1.0')**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	80.2		79.4		%		0.9	20
Percent Moisture	19.8		20.6		%		4	20

**Lab Sample ID: 240-87591-71 DU**

**Matrix: Solid**  
**Analysis Batch: 302739**

**Client Sample ID: ED-00.39-SL01-(0-0.5')**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	83.9		77.3		%		8	20
Percent Moisture	16.1		22.7	F3	%		34	20

**Lab Sample ID: 240-87591-80 DU**

**Matrix: Solid**  
**Analysis Batch: 302739**

**Client Sample ID: ED-00.25-SL02-(0-0.5')-FD**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	81.0		81.5		%		0.6	20
Percent Moisture	19.0		18.5		%		3	20

**Lab Sample ID: 240-87591-89 DU**

**Matrix: Solid**  
**Analysis Batch: 302739**

**Client Sample ID: ED-00.08-SL04-(0.86-1.36)**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	80.5		81.2		%		0.9	20
Percent Moisture	19.5		18.8		%		4	20

**Lab Sample ID: 240-87591-91 DU**

**Matrix: Solid**  
**Analysis Batch: 302739**

**Client Sample ID: ED-00.08-SL01-(0-0.5')**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	78.8		75.9		%		4	20
Percent Moisture	21.2		24.1		%		13	20

**Lab Sample ID: 240-87591-108 DU**

**Matrix: Solid**  
**Analysis Batch: 302739**

**Client Sample ID: ED-01.14-SL03-(0-0.5')**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	79.8		78.2		%		2	20
Percent Moisture	20.2		21.8		%		8	20

**Lab Sample ID: 240-87591-116 DU**

**Matrix: Solid**  
**Analysis Batch: 302739**

**Client Sample ID: ED-01.03-SL03-(0.21-1.0')**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	90.6		90.7		%		0.2	20

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 240-87591-116 DU

Matrix: Solid

Analysis Batch: 302739

Client Sample ID: ED-01.03-SL03-(0.21-1.0')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.4		9.3		%		1	20

Lab Sample ID: 240-87591-129 DU

Matrix: Solid

Analysis Batch: 302739

Client Sample ID: ED-01.14-SL01-(0-0.5')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	87.6		85.9		%		2	20
Percent Moisture	12.4		14.1		%		13	20

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## GC Semi VOA

### Prep Batch: 302635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-73	ED-00.25-SL04-(0-0.5')	Total/NA	Solid	3540C	
240-87591-74	ED-00.25-SL04-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-75	ED-00.25-SL04-(1.0-1.5')	Total/NA	Solid	3540C	
240-87591-76	ED-00.25-SL04-(1.5-2.0')	Total/NA	Solid	3540C	
240-87591-77	ED-00.25-SL03-(0.0-0.5')	Total/NA	Solid	3540C	
240-87591-78	ED-00.25-SL03-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-79	ED-00.25-SL02-(0-0.5')	Total/NA	Solid	3540C	
240-87591-80	ED-00.25-SL02-(0-0.5')-FD	Total/NA	Solid	3540C	
240-87591-81	ED-00.25-SL02-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-82	ED-00.25-SL02-(1.0-1.5')	Total/NA	Solid	3540C	
240-87591-83	ED-00.08-SL03-(0-0.5')	Total/NA	Solid	3540C	
240-87591-84	ED-00.08-SL03-(0.5-0.97')	Total/NA	Solid	3540C	
240-87591-85	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	3540C	
240-87591-86	ED-00.08-SL03-(1.5-2.0')	Total/NA	Solid	3540C	
240-87591-87	ED-00.08-SL04-(0-0.67)	Total/NA	Solid	3540C	
240-87591-88	ED-00.08-SL04-(0.67-0.86)	Total/NA	Solid	3540C	
MB 240-302635/19-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302635/20-A	Lab Control Sample	Total/NA	Solid	3540C	
240-87591-85 MS	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	3540C	
240-87591-85 MSD	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	3540C	

### Prep Batch: 302648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-130	WATER DRUM	Total/NA	Water	3510C	
240-87591-132	EQUIP RINSATE	Total/NA	Water	3510C	
MB 240-302648/3-A	Method Blank	Total/NA	Water	3510C	
LCS 240-302648/4-A	Lab Control Sample	Total/NA	Water	3510C	

### Prep Batch: 302802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-47	ED-00.82-SOL04-(0-0.13')	Total/NA	Solid	3540C	
240-87591-48	ED-00.82-SOL04-(0.13-0.5)	Total/NA	Solid	3540C	
240-87591-49	ED-00.72-SL01-(0-0.50')	Total/NA	Solid	3540C	
240-87591-50	ED-00.72-SL01-(0.50-1.0')	Total/NA	Solid	3540C	
240-87591-51	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	3540C	
240-87591-52	ED-00.60-SL03-(0.89-1.0')	Total/NA	Solid	3540C	
240-87591-53	ED-0060.SL01-(0-0.19')	Total/NA	Solid	3540C	
240-87591-55	ED-00.51-SL03-(0-0.5')	Total/NA	Solid	3540C	
240-87591-56	ED-00.51-SL03-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-57	ED-00.51-SL03-(0-0.5')-FD	Total/NA	Solid	3540C	
240-87591-58	ED-00.51-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-59	ED-00.51.SL01-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-60	ED-00.47-SL04-(0-0.80')	Total/NA	Solid	3540C	
240-87591-61	ED-00.47-SL03-(0-0.77')	Total/NA	Solid	3540C	
240-87591-62	ED-00.47-SL03-(0-0.77')-FD	Total/NA	Solid	3540C	
240-87591-63	ED-00.47-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-64	ED-00.39-SL04-(0-0.50')	Total/NA	Solid	3540C	
240-87591-65	ED-00.39-SL04-(0.50-1.0')	Total/NA	Solid	3540C	
240-87591-66	ED-00.39-SL03-(0-0.69')	Total/NA	Solid	3540C	
MB 240-302802/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302802/24-A	Lab Control Sample	Total/NA	Solid	3540C	

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# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## GC Semi VOA (Continued)

### Prep Batch: 302802 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-51 MS	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	3540C	
240-87591-51 MSD	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	3540C	

### Prep Batch: 302857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-67	ED-00.39-SL03-(0-0.69')-FD	Total/NA	Solid	3540C	
240-87591-68	ED-00.39-SL03-(0.69-0.98')	Total/NA	Solid	3540C	
240-87591-70	ED-00.39-SL03-(1.17-1.5')	Total/NA	Solid	3540C	
240-87591-71	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	3540C	
MB 240-302857/7-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302857/8-A	Lab Control Sample	Total/NA	Solid	3540C	
240-87591-71 MS	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-71 MSD	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	3540C	

### Analysis Batch: 302884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-130	WATER DRUM	Total/NA	Water	8082A	302648
240-87591-132	EQUIP RINSATE	Total/NA	Water	8082A	302648
MB 240-302648/3-A	Method Blank	Total/NA	Water	8082A	302648
LCS 240-302648/4-A	Lab Control Sample	Total/NA	Water	8082A	302648

### Analysis Batch: 302905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-73	ED-00.25-SL04-(0-0.5')	Total/NA	Solid	8082A	302635
240-87591-74	ED-00.25-SL04-(0.5-1.0')	Total/NA	Solid	8082A	302635
240-87591-75	ED-00.25-SL04-(1.0-1.5')	Total/NA	Solid	8082A	302635
240-87591-76	ED-00.25-SL04-(1.5-2.0')	Total/NA	Solid	8082A	302635
240-87591-77	ED-00.25-SL03-(0.0-0.5')	Total/NA	Solid	8082A	302635
240-87591-78	ED-00.25-SL03-(0.5-1.0')	Total/NA	Solid	8082A	302635
240-87591-79	ED-00.25-SL02-(0-0.5')	Total/NA	Solid	8082A	302635
240-87591-80	ED-00.25-SL02-(0-0.5')-FD	Total/NA	Solid	8082A	302635
240-87591-81	ED-00.25-SL02-(0.5-1.0')	Total/NA	Solid	8082A	302635
240-87591-82	ED-00.25-SL02-(1.0-1.5')	Total/NA	Solid	8082A	302635
240-87591-83	ED-00.08-SL03-(0-0.5')	Total/NA	Solid	8082A	302635
240-87591-84	ED-00.08-SL03-(0.5-0.97')	Total/NA	Solid	8082A	302635
240-87591-85	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	8082A	302635
240-87591-86	ED-00.08-SL03-(1.5-2.0')	Total/NA	Solid	8082A	302635
240-87591-87	ED-00.08-SL04-(0-0.67)	Total/NA	Solid	8082A	302635
240-87591-88	ED-00.08-SL04-(0.67-0.86)	Total/NA	Solid	8082A	302635
MB 240-302635/19-A	Method Blank	Total/NA	Solid	8082A	302635
LCS 240-302635/20-A	Lab Control Sample	Total/NA	Solid	8082A	302635
240-87591-85 MS	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	8082A	302635
240-87591-85 MSD	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	8082A	302635

### Prep Batch: 302955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-104	ED-00.72-SL02-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-105	ED-00.72-SL02-(1.0-1.5')	Total/NA	Solid	3540C	
240-87591-106	ED-01.24-SL01-(0-0.87')	Total/NA	Solid	3540C	
240-87591-107	ED-01.24-SL01-(0.87-1.0')	Total/NA	Solid	3540C	
240-87591-108	ED-01.14-SL03-(0-0.5')	Total/NA	Solid	3540C	

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# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## GC Semi VOA (Continued)

### Prep Batch: 302955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-109	ED-01.14-SL03-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-110	ED-01.14-SL03-(0.5-1.0')-FD	Total/NA	Solid	3540C	
240-87591-111	ED-01.49-SL02-(0-0.5')	Total/NA	Solid	3540C	
240-87591-112	ED-01.49-SL02-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-113	ED-01.37-SL01-(0-0.9')	Total/NA	Solid	3540C	
240-87591-114	ED-01.37-SL01-(0-0.9')-FD	Total/NA	Solid	3540C	
240-87591-115	ED-01.03-SL03-(0-0.21')	Total/NA	Solid	3540C	
240-87591-116	ED-01.03-SL03-(0.21-1.0')	Total/NA	Solid	3540C	
240-87591-117	ED-00.82-SL03-(0-0.5')	Total/NA	Solid	3540C	
240-87591-118	ED-00.82-SL03-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-119	ED-00.72-SL04-(0-0.11')	Total/NA	Solid	3540C	
240-87591-120	ED-00.72-SL04-(0.11-0.47')	Total/NA	Solid	3540C	
240-87591-121	ED-00.72-SL04-(0.47-1.0')	Total/NA	Solid	3540C	
240-87591-122	ED-01.49-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-123	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	3540C	
MB 240-302955/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302955/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-87591-123 MS	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	3540C	
240-87591-123 MSD	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	3540C	

### Prep Batch: 302976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-124	ED-01.24-SL03-(0-0.5')	Total/NA	Solid	3540C	
240-87591-125	ED-00.82-SL01-(0-0.22')	Total/NA	Solid	3540C	
240-87591-126	ED-00.82-SL01-(0.22-0.5')	Total/NA	Solid	3540C	
240-87591-127	ED-01.03-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-129	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	3540C	
MB 240-302976/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302976/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-87591-129 MS	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-129 MSD	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	3540C	

### Prep Batch: 302991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-54	ED-0060.SL01-(0.19-1.0')	Total/NA	Solid	3540C	
240-87591-69	ED-00.39-SL03-(0.98-1.17')	Total/NA	Solid	3540C	
240-87591-72	ED-00.39-SL01-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-89	ED-00.08-SL04-(0.86-1.36)	Total/NA	Solid	3540C	
240-87591-90	ED-00.08-SL04-(1.5-2.0')	Total/NA	Solid	3540C	
240-87591-91	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-92	ED-00.08-SL01-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-93	ED-00.08-SL01-(1.0-1.86')	Total/NA	Solid	3540C	
240-87591-94	ED-00.08-SL01-(1.86-2.0')	Total/NA	Solid	3540C	
240-87591-95	ED-01.37-SL03-(0-0.27')	Total/NA	Solid	3540C	
240-87591-96	ED-01.37-SL03-(0.27-0.92')	Total/NA	Solid	3540C	
240-87591-97	ED-01.37-SL03-(0.92-1.07')	Total/NA	Solid	3540C	
240-87591-98	ED-01.37-SL03-(1.07-2.0')	Total/NA	Solid	3540C	
240-87591-99	ED-01.49-SL04-(0-0.5')	Total/NA	Solid	3540C	
240-87591-100	ED-01.49-SL04-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-101	ED-01.49-SL04-(1.0-1.81')	Total/NA	Solid	3540C	
240-87591-102	ED-01.49-SL04-(1.81-2.0')	Total/NA	Solid	3540C	

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# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## GC Semi VOA (Continued)

### Prep Batch: 302991 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-103	ED-00.72-SL02-(0-0.5)	Total/NA	Solid	3540C	
240-87591-128	ED-01.03-SL01-(0-0.5')-FD	Total/NA	Solid	3540C	
240-87591-133	ED-00.72-SL01-(0-0.5')-FD	Total/NA	Solid	3540C	
MB 240-302991/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302991/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-87591-91 MS	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-91 MSD	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	3540C	

### Prep Batch: 303031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-1	ED-00.08-SD02-(0-0.45')	Total/NA	Sediment	3540C	
240-87591-2	ED-00.08-SD02-(0.45-.75')	Total/NA	Sediment	3540C	
240-87591-3	ED-00.08-SD02-(0.75-1.4')	Total/NA	Sediment	3540C	
240-87591-4	ED-00.08-SD02-(0.75-1.4')-FD	Total/NA	Sediment	3540C	
240-87591-5	ED-00.08-SD02-(1.4-2.03')	Total/NA	Sediment	3540C	
240-87591-6	ED-00.25-SD01-(0.0-57')	Total/NA	Sediment	3540C	
240-87591-7	ED-00.25-SD01-(0.57-3.51')	Total/NA	Sediment	3540C	
240-87591-8	ED-00.25-SD01-(3.51-4.3')	Total/NA	Sediment	3540C	
240-87591-9	ED-00.25-SD01-(3.51-4.3')-DUP	Total/NA	Sediment	3540C	
240-87591-10	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	3540C	
240-87591-11	ED-00.39-SD02-(2.20-2.41')	Total/NA	Sediment	3540C	
240-87591-12	ED-00.39-SD02-(2.41-3.54')	Total/NA	Sediment	3540C	
240-87591-13	ED-00.39-SD02-(3.54-4.30')	Total/NA	Sediment	3540C	
240-87591-14	ED-00.47-SD02-(0-0.33')	Total/NA	Sediment	3540C	
240-87591-15	ED-00.47-SD02-(33-1.46')	Total/NA	Sediment	3540C	
240-87591-16	ED-00.47-SD02-(1.46-1.96')	Total/NA	Sediment	3540C	
240-87591-17	ED-00.47-SD02-(1.96-3.13')	Total/NA	Sediment	3540C	
240-87591-18	ED-00.51-SD02-(0-0.36')	Total/NA	Sediment	3540C	
240-87591-19	ED-00.51-SD02-(0.36-0.68')	Total/NA	Sediment	3540C	
MB 240-303031/23-A	Method Blank	Total/NA	Sediment	3540C	
LCS 240-303031/24-A	Lab Control Sample	Total/NA	Sediment	3540C	
240-87591-10 MS	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	3540C	
240-87591-10 MSD	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	3540C	

### Analysis Batch: 303043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-67	ED-00.39-SL03-(0-0.69')-FD	Total/NA	Solid	8082A	302857
240-87591-68	ED-00.39-SL03-(0.69-0.98')	Total/NA	Solid	8082A	302857
240-87591-70	ED-00.39-SL03-(1.17-1.5')	Total/NA	Solid	8082A	302857
240-87591-71	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	8082A	302857
MB 240-302857/7-A	Method Blank	Total/NA	Solid	8082A	302857
LCS 240-302857/8-A	Lab Control Sample	Total/NA	Solid	8082A	302857
240-87591-71 MS	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	8082A	302857
240-87591-71 MSD	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	8082A	302857

### Analysis Batch: 303080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-47	ED-00.82-SOL04-(0-0.13')	Total/NA	Solid	8082A	302802
240-87591-48	ED-00.82-SOL04-(0.13-0.5)	Total/NA	Solid	8082A	302802
240-87591-49	ED-00.72-SL01-(0-0.50')	Total/NA	Solid	8082A	302802
240-87591-50	ED-00.72-SL01-(0.50-1.0')	Total/NA	Solid	8082A	302802

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# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## GC Semi VOA (Continued)

### Analysis Batch: 303080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-51	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	8082A	302802
240-87591-52	ED-00.60-SL03-(0.89-1.0')	Total/NA	Solid	8082A	302802
240-87591-53	ED-0060.SL01-(0-0.19')	Total/NA	Solid	8082A	302802
240-87591-55	ED-00.51-SL03-(0-0.5')	Total/NA	Solid	8082A	302802
240-87591-56	ED-00.51-SL03-(0.5-1.0')	Total/NA	Solid	8082A	302802
240-87591-57	ED-00.51-SL03-(0-0.5')-FD	Total/NA	Solid	8082A	302802
240-87591-58	ED-00.51-SL01-(0-0.5')	Total/NA	Solid	8082A	302802
240-87591-59	ED-00.51.SL01-(0.5-1.0')	Total/NA	Solid	8082A	302802
240-87591-60	ED-00.47-SL04-(0-0.80')	Total/NA	Solid	8082A	302802
240-87591-61	ED-00.47-SL03-(0-0.77')	Total/NA	Solid	8082A	302802
240-87591-62	ED-00.47-SL03-(0-0.77')-FD	Total/NA	Solid	8082A	302802
240-87591-63	ED-00.47-SL01-(0-0.5')	Total/NA	Solid	8082A	302802
240-87591-64	ED-00.39-SL04-(0-0.50')	Total/NA	Solid	8082A	302802
240-87591-65	ED-00.39-SL04-(0.50-1.0')	Total/NA	Solid	8082A	302802
240-87591-66	ED-00.39-SL03-(0-0.69')	Total/NA	Solid	8082A	302802
MB 240-302802/23-A	Method Blank	Total/NA	Solid	8082A	302802
LCS 240-302802/24-A	Lab Control Sample	Total/NA	Solid	8082A	302802
240-87591-51 MS	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	8082A	302802
240-87591-51 MSD	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	8082A	302802

### Prep Batch: 303095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-22	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	3540C	
240-87591-23	ED-00.60-SD02-(1.76-2.22')	Total/NA	Sediment	3540C	
240-87591-24	ED-00.60-SD02-(2.22-2.39')	Total/NA	Sediment	3540C	
240-87591-25	ED-00.60-SD02-(2.39-2.63')	Total/NA	Sediment	3540C	
240-87591-26	ED-00.60-SD02-(2.63-3.30')	Total/NA	Sediment	3540C	
240-87591-27	ED-00.72-SD03-(0-2.06')	Total/NA	Sediment	3540C	
240-87591-28	ED-00.72-SD03-(2.06-2.40')	Total/NA	Sediment	3540C	
240-87591-29	ED-00.72-SD03-(2.40-3.50')	Total/NA	Sediment	3540C	
240-87591-30	ED-00.72-SD03-(3.50-3.84')	Total/NA	Sediment	3540C	
240-87591-31	ED-00.72-SD03-(3.84-4.05')	Total/NA	Sediment	3540C	
240-87591-32	ED-00.72-SD03-(4.05-4.30')	Total/NA	Sediment	3540C	
240-87591-33	ED-00.72-SD03-(2.40-3.50)-FD	Total/NA	Sediment	3540C	
240-87591-35	ED-00.82-SD02-(0.39-0.70')	Total/NA	Sediment	3540C	
240-87591-36	ED.01.03-SD02-(0-0.98)	Total/NA	Sediment	3540C	
240-87591-37	ED.01.03-SD02-(0-0.98)-FD	Total/NA	Sediment	3540C	
240-87591-38	ED-01.03-SD02-(0.98-1.65')	Total/NA	Sediment	3540C	
240-87591-39	ED-01.03-SD02-(0.98-1.65')-FD	Total/NA	Sediment	3540C	
240-87591-40	ED-01.03-SD02-(1.65-1.87')	Total/NA	Sediment	3540C	
240-87591-41	ED-01.03-SD02-(1.87-2.25')	Total/NA	Sediment	3540C	
240-87591-46	ED-01.49-SD03-(0-0.70')	Total/NA	Sediment	3540C	
MB 240-303095/23-A	Method Blank	Total/NA	Sediment	3540C	
LCS 240-303095/24-A	Lab Control Sample	Total/NA	Sediment	3540C	
240-87591-22 MS	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	3540C	
240-87591-22 MSD	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	3540C	

### Prep Batch: 303098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-20	ED-00.51-SD02-(0.68-1.65')	Total/NA	Sediment	3540C	
240-87591-21	ED-00.51-SD02-(1.65-1.75')	Total/NA	Sediment	3540C	

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# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## GC Semi VOA (Continued)

### Prep Batch: 303098 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-34	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	3540C	
240-87591-42	ED-01.14-SD02-(0-1.05')	Total/NA	Sediment	3540C	
240-87591-43	ED-01.22-SD02-(0-0.17')	Total/NA	Sediment	3540C	
240-87591-44	ED-01.22-SD02-(0.17-0.29')	Total/NA	Sediment	3540C	
240-87591-45	ED-01.37-SD02-(0-0.9')	Total/NA	Sediment	3540C	
240-87591-131	SOIL-SED DRUM	Total/NA	Sediment	3540C	
MB 240-303098/23-A	Method Blank	Total/NA	Sediment	3540C	
LCS 240-303098/24-A	Lab Control Sample	Total/NA	Sediment	3540C	
240-87591-34 MS	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	3540C	
240-87591-34 MSD	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	3540C	

### Analysis Batch: 303127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-22	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	8082A	303095
240-87591-23	ED-00.60-SD02-(1.76-2.22')	Total/NA	Sediment	8082A	303095
240-87591-24	ED-00.60-SD02-(2.22-2.39')	Total/NA	Sediment	8082A	303095
240-87591-25	ED-00.60-SD02-(2.39-2.63')	Total/NA	Sediment	8082A	303095
240-87591-26	ED-00.60-SD02-(2.63-3.30')	Total/NA	Sediment	8082A	303095
240-87591-27	ED-00.72-SD03-(0-2.06')	Total/NA	Sediment	8082A	303095
240-87591-28	ED-00.72-SD03-(2.06-2.40')	Total/NA	Sediment	8082A	303095
240-87591-29	ED-00.72-SD03-(2.40-3.50')	Total/NA	Sediment	8082A	303095
240-87591-30	ED-00.72-SD03-(3.50-3.84')	Total/NA	Sediment	8082A	303095
240-87591-31	ED-00.72-SD03-(3.84-4.05')	Total/NA	Sediment	8082A	303095
240-87591-32	ED-00.72-SD03-(4.05-4.30')	Total/NA	Sediment	8082A	303095
240-87591-33	ED-00.72-SD03-(2.40-3.50)-FD	Total/NA	Sediment	8082A	303095
240-87591-35	ED-00.82-SD02-(0.39-0.70')	Total/NA	Sediment	8082A	303095
240-87591-36	ED-01.03-SD02-(0-0.98)	Total/NA	Sediment	8082A	303095
240-87591-38	ED-01.03-SD02-(0.98-1.65')	Total/NA	Sediment	8082A	303095
240-87591-39	ED-01.03-SD02-(0.98-1.65)-FD	Total/NA	Sediment	8082A	303095
240-87591-40	ED-01.03-SD02-(1.65-1.87')	Total/NA	Sediment	8082A	303095
240-87591-41	ED-01.03-SD02-(1.87-2.25')	Total/NA	Sediment	8082A	303095
240-87591-46	ED-01.49-SD03-(0-0.70')	Total/NA	Sediment	8082A	303095
MB 240-303095/23-A	Method Blank	Total/NA	Sediment	8082A	303095
LCS 240-303095/24-A	Lab Control Sample	Total/NA	Sediment	8082A	303095

### Analysis Batch: 303135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-20	ED-00.51-SD02-(0.68-1.65')	Total/NA	Sediment	8082A	303098
240-87591-21	ED-00.51-SD02-(1.65-1.75')	Total/NA	Sediment	8082A	303098
240-87591-34	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	8082A	303098
240-87591-42	ED-01.14-SD02-(0-1.05')	Total/NA	Sediment	8082A	303098
240-87591-43	ED-01.22-SD02-(0-0.17')	Total/NA	Sediment	8082A	303098
240-87591-44	ED-01.22-SD02-(0.17-0.29')	Total/NA	Sediment	8082A	303098
240-87591-45	ED-01.37-SD02-(0-0.9')	Total/NA	Sediment	8082A	303098
240-87591-131	SOIL-SED DRUM	Total/NA	Sediment	8082A	303098
MB 240-303098/23-A	Method Blank	Total/NA	Sediment	8082A	303098
LCS 240-303098/24-A	Lab Control Sample	Total/NA	Sediment	8082A	303098
240-87591-34 MS	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	8082A	303098
240-87591-34 MSD	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	8082A	303098

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# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## GC Semi VOA (Continued)

### Analysis Batch: 303214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-124	ED-01.24-SL03-(0-0.5')	Total/NA	Solid	8082A	302976
240-87591-125	ED-00.82-SL01-(0-0.22')	Total/NA	Solid	8082A	302976
240-87591-126	ED-00.82-SL01-(0.22-0.5')	Total/NA	Solid	8082A	302976
240-87591-127	ED-01.03-SL01-(0-0.5')	Total/NA	Solid	8082A	302976
MB 240-302976/23-A	Method Blank	Total/NA	Solid	8082A	302976
LCS 240-302976/24-A	Lab Control Sample	Total/NA	Solid	8082A	302976

### Analysis Batch: 303227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-1	ED-00.08-SD02-(0-0.45')	Total/NA	Sediment	8082A	303031
240-87591-2	ED-00.08-SD02-(0.45-0.75')	Total/NA	Sediment	8082A	303031
240-87591-3	ED-00.08-SD02-(0.75-1.4')	Total/NA	Sediment	8082A	303031
240-87591-4	ED-00.08-SD02-(0.75-1.4')-FD	Total/NA	Sediment	8082A	303031
240-87591-5	ED-00.08-SD02-(1.4-2.03')	Total/NA	Sediment	8082A	303031
240-87591-6	ED-00.25-SD01-(0.0-57')	Total/NA	Sediment	8082A	303031
240-87591-7	ED-00.25-SD01-(0.57-3.51')	Total/NA	Sediment	8082A	303031
240-87591-8	ED-00.25-SD01-(3.51-4.3')	Total/NA	Sediment	8082A	303031
240-87591-9	ED-00.25-SD01-(3.51-4.3')-DUP	Total/NA	Sediment	8082A	303031
240-87591-10	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	8082A	303031
240-87591-11	ED-00.39-SD02-(2.20-2.41')	Total/NA	Sediment	8082A	303031
240-87591-12	ED-00.39-SD02-(2.41-3.54')	Total/NA	Sediment	8082A	303031
240-87591-13	ED-00.39-SD02-(3.54-4.30')	Total/NA	Sediment	8082A	303031
240-87591-14	ED-00.47-SD02-(0-0.33')	Total/NA	Sediment	8082A	303031
240-87591-15	ED-00.47-SD02-(33-1.46')	Total/NA	Sediment	8082A	303031
240-87591-16	ED-00.47-SD02-(1.46-1.96')	Total/NA	Sediment	8082A	303031
240-87591-17	ED-00.47-SD02-(1.96-3.13')	Total/NA	Sediment	8082A	303031
240-87591-18	ED-00.51-SD02-(0-0.36')	Total/NA	Sediment	8082A	303031
240-87591-19	ED-00.51-SD02-(0.36-0.68')	Total/NA	Sediment	8082A	303031
MB 240-303031/23-A	Method Blank	Total/NA	Sediment	8082A	303031
LCS 240-303031/24-A	Lab Control Sample	Total/NA	Sediment	8082A	303031
240-87591-10 MS	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	8082A	303031
240-87591-10 MSD	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	8082A	303031

### Analysis Batch: 303305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-54	ED-0060.SL01-(0.19-1.0')	Total/NA	Solid	8082A	302991
240-87591-69	ED-00.39-SL03-(0.98-1.17')	Total/NA	Solid	8082A	302991
240-87591-72	ED-00.39-SL01-(0.5-1.0')	Total/NA	Solid	8082A	302991
240-87591-89	ED-00.08-SL04-(0.86-1.36)	Total/NA	Solid	8082A	302991
240-87591-90	ED-00.08-SL04-(1.5-2.0')	Total/NA	Solid	8082A	302991
240-87591-91	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	8082A	302991
240-87591-92	ED-00.08-SL01-(0.5-1.0')	Total/NA	Solid	8082A	302991
240-87591-93	ED-00.08-SL01-(1.0-1.86')	Total/NA	Solid	8082A	302991
240-87591-94	ED-00.08-SL01-(1.86-2.0')	Total/NA	Solid	8082A	302991
240-87591-95	ED-01.37-SL03-(0-0.27')	Total/NA	Solid	8082A	302991
240-87591-96	ED-01.37-SL03-(0.27-0.92')	Total/NA	Solid	8082A	302991
240-87591-97	ED-01.37-SL03-(0.92-1.07')	Total/NA	Solid	8082A	302991
240-87591-98	ED-01.37-SL03-(1.07-2.0')	Total/NA	Solid	8082A	302991
240-87591-99	ED-01.49-SL04-(0-0.5')	Total/NA	Solid	8082A	302991
240-87591-100	ED-01.49-SL04-(0.5-1.0')	Total/NA	Solid	8082A	302991
240-87591-101	ED-01.49-SL04-(1.0-1.81')	Total/NA	Solid	8082A	302991

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# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## GC Semi VOA (Continued)

### Analysis Batch: 303305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-102	ED-01.49-SL04-(1.81-2.0')	Total/NA	Solid	8082A	302991
240-87591-103	ED-00.72-SL02-(0-0.5')	Total/NA	Solid	8082A	302991
240-87591-128	ED-01.03-SL01-(0-0.5')-FD	Total/NA	Solid	8082A	302991
240-87591-133	ED-00.72-SL01-(0-0.5')-FD	Total/NA	Solid	8082A	302991
MB 240-302991/23-A	Method Blank	Total/NA	Solid	8082A	302991
LCS 240-302991/24-A	Lab Control Sample	Total/NA	Solid	8082A	302991
240-87591-91 MS	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	8082A	302991
240-87591-91 MSD	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	8082A	302991

### Analysis Batch: 303311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-129	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	8082A	302976
240-87591-129 MS	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	8082A	302976
240-87591-129 MSD	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	8082A	302976

### Analysis Batch: 303313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-104	ED-00.72-SL02-(0.5-1.0')	Total/NA	Solid	8082A	302955
240-87591-107	ED-01.24-SL01-(0.87-1.0')	Total/NA	Solid	8082A	302955
240-87591-108	ED-01.14-SL03-(0-0.5')	Total/NA	Solid	8082A	302955
240-87591-109	ED-01.14-SL03-(0.5-1.0')	Total/NA	Solid	8082A	302955
240-87591-110	ED-01.14-SL03-(0.5-1.0')-FD	Total/NA	Solid	8082A	302955
240-87591-111	ED-01.49-SL02-(0-0.5')	Total/NA	Solid	8082A	302955
240-87591-112	ED-01.49-SL02-(0.5-1.0')	Total/NA	Solid	8082A	302955
240-87591-113	ED-01.37-SL01-(0-0.9')	Total/NA	Solid	8082A	302955
240-87591-114	ED-01.37-SL01-(0-0.9')-FD	Total/NA	Solid	8082A	302955
240-87591-115	ED-01.03-SL03-(0-0.21')	Total/NA	Solid	8082A	302955
240-87591-116	ED-01.03-SL03-(0.21-1.0')	Total/NA	Solid	8082A	302955
240-87591-117	ED-00.82-SL03-(0-0.5')	Total/NA	Solid	8082A	302955
240-87591-118	ED-00.82-SL03-(0.5-1.0')	Total/NA	Solid	8082A	302955
240-87591-119	ED-00.72-SL04-(0-0.11')	Total/NA	Solid	8082A	302955
240-87591-120	ED-00.72-SL04-(0.11-0.47')	Total/NA	Solid	8082A	302955
240-87591-121	ED-00.72-SL04-(0.47-1.0')	Total/NA	Solid	8082A	302955
240-87591-122	ED-01.49-SL01-(0-0.5')	Total/NA	Solid	8082A	302955
240-87591-123	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	8082A	302955
MB 240-302955/23-A	Method Blank	Total/NA	Solid	8082A	302955
LCS 240-302955/24-A	Lab Control Sample	Total/NA	Solid	8082A	302955
240-87591-123 MS	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	8082A	302955
240-87591-123 MSD	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	8082A	302955

### Analysis Batch: 303440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-37	ED.01.03-SD02-(0-0.98)-FD	Total/NA	Sediment	8082A	303095
240-87591-22 MS	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	8082A	303095
240-87591-22 MSD	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	8082A	303095

### Analysis Batch: 303503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-105	ED-00.72-SL02-(1.0-1.5')	Total/NA	Solid	8082A	302955
240-87591-106	ED-01.24-SL01-(0-0.87')	Total/NA	Solid	8082A	302955

TestAmerica Canton

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## General Chemistry

Analysis Batch: 302543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-1	ED-00.08-SD02-(0-0.45')	Total/NA	Sediment	Moisture	
240-87591-2	ED-00.08-SD02-(0.45-.75')	Total/NA	Sediment	Moisture	
240-87591-3	ED-00.08-SD02-(0.75-1.4')	Total/NA	Sediment	Moisture	
240-87591-4	ED-00.08-SD02-(0.75-1.4')-FD	Total/NA	Sediment	Moisture	
240-87591-5	ED-00.08-SD02-(1.4-2.03')	Total/NA	Sediment	Moisture	
240-87591-6	ED-00.25-SD01-(0.0-57')	Total/NA	Sediment	Moisture	
240-87591-7	ED-00.25-SD01-(0.57-3.51')	Total/NA	Sediment	Moisture	
240-87591-8	ED-00.25-SD01-(3.51-4.3')	Total/NA	Sediment	Moisture	
240-87591-9	ED-00.25-SD01-(3.51-4.3')-DUP	Total/NA	Sediment	Moisture	
240-87591-10	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	Moisture	
240-87591-11	ED-00.39-SD02-(2.20-2.41')	Total/NA	Sediment	Moisture	
240-87591-12	ED-00.39-SD02-(2.41-3.54')	Total/NA	Sediment	Moisture	
240-87591-13	ED-00.39-SD02-(3.54-4.30')	Total/NA	Sediment	Moisture	
240-87591-14	ED-00.47-SD02-(0-0.33')	Total/NA	Sediment	Moisture	
240-87591-15	ED-00.47-SD02-(33-1.46')	Total/NA	Sediment	Moisture	
240-87591-16	ED-00.47-SD02-(1.46-1.96')	Total/NA	Sediment	Moisture	
240-87591-17	ED-00.47-SD02-(1.96-3.13')	Total/NA	Sediment	Moisture	
240-87591-18	ED-00.51-SD02-(0-0.36')	Total/NA	Sediment	Moisture	
240-87591-19	ED-00.51-SD02-(0.36-0.68')	Total/NA	Sediment	Moisture	
240-87591-20	ED-00.51-SD02-(0.68-1.65')	Total/NA	Sediment	Moisture	
240-87591-21	ED-00.51-SD02-(1.65-1.75')	Total/NA	Sediment	Moisture	
240-87591-22	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	Moisture	
240-87591-23	ED-00.60-SD02-(1.76-2.22')	Total/NA	Sediment	Moisture	
240-87591-24	ED-00.60-SD02-(2.22-2.39')	Total/NA	Sediment	Moisture	
240-87591-25	ED-00.60-SD02-(2.39-2.63')	Total/NA	Sediment	Moisture	
240-87591-26	ED-00.60-SD02-(2.63-3.30')	Total/NA	Sediment	Moisture	
240-87591-27	ED-00.72-SD03-(0-2.06')	Total/NA	Sediment	Moisture	
240-87591-28	ED-00.72-SD03-(2.06-2.40')	Total/NA	Sediment	Moisture	
240-87591-29	ED-00.72-SD03-(2.40-3.50')	Total/NA	Sediment	Moisture	
240-87591-30	ED-00.72-SD03-(3.50-3.84')	Total/NA	Sediment	Moisture	
240-87591-31	ED-00.72-SD03-(3.84-4.05')	Total/NA	Sediment	Moisture	
240-87591-32	ED-00.72-SD03-(4.05-4.30')	Total/NA	Sediment	Moisture	
240-87591-33	ED-00.72-SD03-(2.40-3.50)-FD	Total/NA	Sediment	Moisture	
240-87591-34	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	Moisture	
240-87591-35	ED-00.82-SD02-(0.39-0.70')	Total/NA	Sediment	Moisture	
240-87591-36	ED.01.03-SD02-(0-0.98)	Total/NA	Sediment	Moisture	
240-87591-37	ED.01.03-SD02-(0-0.98)-FD	Total/NA	Sediment	Moisture	
240-87591-38	ED-01.03-SD02-(0.98-1.65')	Total/NA	Sediment	Moisture	
240-87591-39	ED-01.03-SD02-(0.98-1.65')-FD	Total/NA	Sediment	Moisture	
240-87591-40	ED-01.03-SD02-(1.65-1.87')	Total/NA	Sediment	Moisture	
240-87591-41	ED-01.03-SD02-(1.87-2.25')	Total/NA	Sediment	Moisture	
240-87591-42	ED-01.14-SD02-(0-1.05')	Total/NA	Sediment	Moisture	
240-87591-43	ED-01.22-SD02-(0-0.17')	Total/NA	Sediment	Moisture	
240-87591-44	ED-01.22-SD02-(0.17-0.29')	Total/NA	Sediment	Moisture	
240-87591-45	ED-01.37-SD02-(0-0.9')	Total/NA	Sediment	Moisture	
240-87591-46	ED-01.49-SD03-(0-0.70')	Total/NA	Sediment	Moisture	
240-87591-47	ED-00.82-SOL04-(0-0.13')	Total/NA	Solid	Moisture	
240-87591-48	ED-00.82-SOL04-(0.13-0.5)	Total/NA	Solid	Moisture	
240-87591-49	ED-00.72-SL01-(0-0.50')	Total/NA	Solid	Moisture	
240-87591-50	ED-00.72-SL01-(0.50-1.0')	Total/NA	Solid	Moisture	
240-87591-51	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	Moisture	

TestAmerica Canton

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## General Chemistry (Continued)

### Analysis Batch: 302543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-52	ED-00.60-SL03-(0.89-1.0')	Total/NA	Solid	Moisture	
240-87591-53	ED-0060.SL01-(0-0.19')	Total/NA	Solid	Moisture	
240-87591-54	ED-0060.SL01-(0.19-1.0')	Total/NA	Solid	Moisture	
240-87591-55	ED-00.51-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-56	ED-00.51-SL03-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-57	ED-00.51-SL03-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-58	ED-00.51-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-59	ED-00.51.SL01-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-60	ED-00.47-SL04-(0-0.80')	Total/NA	Solid	Moisture	
240-87591-61	ED-00.47-SL03-(0-0.77')	Total/NA	Solid	Moisture	
240-87591-62	ED-00.47-SL03-(0-0.77')-FD	Total/NA	Solid	Moisture	
240-87591-63	ED-00.47-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-64	ED-00.39-SL04-(0-0.50')	Total/NA	Solid	Moisture	
240-87591-65	ED-00.39-SL04-(0.50-1.0')	Total/NA	Solid	Moisture	
240-87591-66	ED-00.39-SL03-(0-0.69')	Total/NA	Solid	Moisture	
240-87591-67	ED-00.39-SL03-(0-0.69')-FD	Total/NA	Solid	Moisture	
240-87591-68	ED-00.39-SL03-(0.69-0.98')	Total/NA	Solid	Moisture	
240-87591-69	ED-00.39-SL03-(0.98-1.17')	Total/NA	Solid	Moisture	
240-87591-70	ED-00.39-SL03-(1.17-1.5')	Total/NA	Solid	Moisture	
240-87591-5 DU	ED-00.08-SD02-(1.4-2.03')	Total/NA	Sediment	Moisture	
240-87591-10 DU	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	Moisture	
240-87591-22 DU	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	Moisture	
240-87591-34 DU	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	Moisture	
240-87591-39 DU	ED-01.03-SD02-(0.98-1.65')-FD	Total/NA	Sediment	Moisture	
240-87591-48 DU	ED-00.82-SOL04-(0.13-0.5)	Total/NA	Solid	Moisture	
240-87591-51 DU	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	Moisture	
240-87591-65 DU	ED-00.39-SL04-(0.50-1.0')	Total/NA	Solid	Moisture	

### Analysis Batch: 302739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-71	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-72	ED-00.39-SL01-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-73	ED-00.25-SL04-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-74	ED-00.25-SL04-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-75	ED-00.25-SL04-(1.0-1.5')	Total/NA	Solid	Moisture	
240-87591-76	ED-00.25-SL04-(1.5-2.0')	Total/NA	Solid	Moisture	
240-87591-77	ED-00.25-SL03-(0.0.5')	Total/NA	Solid	Moisture	
240-87591-78	ED-00.25-SL03-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-79	ED-00.25-SL02-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-80	ED-00.25-SL02-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-81	ED-00.25-SL02-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-82	ED-00.25-SL02-(1.0-1.5')	Total/NA	Solid	Moisture	
240-87591-83	ED-00.08-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-84	ED-00.08-SL03-(0.5-0.97')	Total/NA	Solid	Moisture	
240-87591-85	ED-00.08-SL03-(0.97-1.47')	Total/NA	Solid	Moisture	
240-87591-86	ED-00.08-SL03-(1.5-2.0')	Total/NA	Solid	Moisture	
240-87591-87	ED-00.08-SL04-(0-0.67)	Total/NA	Solid	Moisture	
240-87591-88	ED-00.08-SL04-(0.67-0.86)	Total/NA	Solid	Moisture	
240-87591-89	ED-00.08-SL04-(0.86-1.36)	Total/NA	Solid	Moisture	
240-87591-90	ED-00.08-SL04-(1.5-2.0')	Total/NA	Solid	Moisture	
240-87591-91	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	Moisture	

TestAmerica Canton

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## General Chemistry (Continued)

### Analysis Batch: 302739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-92	ED-00.08-SL01-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-93	ED-00.08-SL01-(1.0-1.86')	Total/NA	Solid	Moisture	
240-87591-94	ED-00.08-SL01-(1.86-2.0')	Total/NA	Solid	Moisture	
240-87591-95	ED-01.37-SL03-(0-0.27')	Total/NA	Solid	Moisture	
240-87591-96	ED-01.37-SL03-(0.27-0.92')	Total/NA	Solid	Moisture	
240-87591-97	ED-01.37-SL03-(0.92-1.07')	Total/NA	Solid	Moisture	
240-87591-98	ED-01.37-SL03-(1.07-2.0')	Total/NA	Solid	Moisture	
240-87591-99	ED-01.49-SL04-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-100	ED-01.49-SL04-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-101	ED-01.49-SL04-(1.0-1.81')	Total/NA	Solid	Moisture	
240-87591-102	ED-01.49-SL04-(1.81-2.0')	Total/NA	Solid	Moisture	
240-87591-103	ED-00.72-SL02-(0-0.5)	Total/NA	Solid	Moisture	
240-87591-104	ED-00.72-SL02-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-105	ED-00.72-SL02-(1.0-1.5')	Total/NA	Solid	Moisture	
240-87591-106	ED-01.24-SL01-(0-0.87')	Total/NA	Solid	Moisture	
240-87591-107	ED-01.24-SL01-(0.87-1.0')	Total/NA	Solid	Moisture	
240-87591-108	ED-01.14-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-109	ED-01.14-SL03-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-110	ED-01.14-SL03-(0.5-1.0')-FD	Total/NA	Solid	Moisture	
240-87591-111	ED-01.49-SL02-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-112	ED-01.49-SL02-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-113	ED-01.37-SL01-(0-0.9')	Total/NA	Solid	Moisture	
240-87591-114	ED-01.37-SL01-(0-0.9')-FD	Total/NA	Solid	Moisture	
240-87591-115	ED-01.03-SL03-(0-0.21')	Total/NA	Solid	Moisture	
240-87591-116	ED-01.03-SL03-(0.21-1.0')	Total/NA	Solid	Moisture	
240-87591-117	ED-00.82-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-118	ED-00.82-SL03-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-119	ED-00.72-SL04-(0-0.11')	Total/NA	Solid	Moisture	
240-87591-120	ED-00.72-SL04-(0.11-0.47')	Total/NA	Solid	Moisture	
240-87591-121	ED-00.72-SL04-(0.47-1.0')	Total/NA	Solid	Moisture	
240-87591-122	ED-01.49-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-123	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-124	ED-01.24-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-125	ED-00.82-SL01-(0-0.22')	Total/NA	Solid	Moisture	
240-87591-126	ED-00.82-SL01-(0.22-0.5')	Total/NA	Solid	Moisture	
240-87591-127	ED-01.03-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-128	ED-01.03-SL01-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-129	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-131	SOIL-SED DRUM	Total/NA	Sediment	Moisture	
240-87591-133	ED-00.72-SL01-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-71 DU	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-80 DU	ED-00.25-SL02-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-89 DU	ED-00.08-SL04-(0.86-1.36)	Total/NA	Solid	Moisture	
240-87591-91 DU	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-108 DU	ED-01.14-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-116 DU	ED-01.03-SL03-(0.21-1.0')	Total/NA	Solid	Moisture	
240-87591-129 DU	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SD02-(0-0.45')**

Date Collected: 10/30/17 11:20

Date Received: 11/07/17 17:00

**Lab Sample ID: 240-87591-1**

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.08-SD02-(0-0.45')**

Date Collected: 10/30/17 11:20

Date Received: 11/07/17 17:00

**Lab Sample ID: 240-87591-1**

Matrix: Sediment

Percent Solids: 54.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 20:24	KMG	TAL CAN

**Client Sample ID: ED-00.08-SD02-(0.45-.75')**

Date Collected: 10/30/17 11:25

Date Received: 11/07/17 17:00

**Lab Sample ID: 240-87591-2**

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.08-SD02-(0.45-.75')**

Date Collected: 10/30/17 11:25

Date Received: 11/07/17 17:00

**Lab Sample ID: 240-87591-2**

Matrix: Sediment

Percent Solids: 54.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/13/17 20:42	KMG	TAL CAN

**Client Sample ID: ED-00.08-SD02-(0.75-1.4')**

Date Collected: 10/30/17 11:30

Date Received: 11/07/17 17:00

**Lab Sample ID: 240-87591-3**

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.08-SD02-(0.75-1.4')**

Date Collected: 10/30/17 11:30

Date Received: 11/07/17 17:00

**Lab Sample ID: 240-87591-3**

Matrix: Sediment

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 21:00	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SD02-(0.75-1.4')-FD**

**Lab Sample ID: 240-87591-4**

Date Collected: 10/30/17 11:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.08-SD02-(0.75-1.4')-FD**

**Lab Sample ID: 240-87591-4**

Date Collected: 10/30/17 11:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 21:19	KMG	TAL CAN

**Client Sample ID: ED-00.08-SD02-(1.4-2.03')**

**Lab Sample ID: 240-87591-5**

Date Collected: 10/30/17 11:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.08-SD02-(1.4-2.03')**

**Lab Sample ID: 240-87591-5**

Date Collected: 10/30/17 11:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303227	11/13/17 21:37	KMG	TAL CAN

**Client Sample ID: ED-00.25-SD01-(0.0-57')**

**Lab Sample ID: 240-87591-6**

Date Collected: 11/01/17 11:46

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.25-SD01-(0.0-57')**

**Lab Sample ID: 240-87591-6**

Date Collected: 11/01/17 11:46

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 21:55	KMG	TAL CAN

TestAmerica Canton



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SD01-(0.57-3.51')**

**Lab Sample ID: 240-87591-7**

Date Collected: 11/01/17 12:01

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.25-SD01-(0.57-3.51')**

**Lab Sample ID: 240-87591-7**

Date Collected: 11/01/17 12:01

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 22:14	KMG	TAL CAN

**Client Sample ID: ED-00.25-SD01-(3.51-4.3')**

**Lab Sample ID: 240-87591-8**

Date Collected: 11/01/17 12:19

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.25-SD01-(3.51-4.3')**

**Lab Sample ID: 240-87591-8**

Date Collected: 11/01/17 12:19

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303227	11/13/17 22:32	KMG	TAL CAN

**Client Sample ID: ED-00.25-SD01-(3.51-4.3')-DUP**

**Lab Sample ID: 240-87591-9**

Date Collected: 11/01/17 12:19

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.25-SD01-(3.51-4.3')-DUP**

**Lab Sample ID: 240-87591-9**

Date Collected: 11/01/17 12:19

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303227	11/13/17 22:50	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SD02-(0-2.20')**

**Lab Sample ID: 240-87591-10**

Date Collected: 11/01/17 13:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.39-SD02-(0-2.20')**

**Lab Sample ID: 240-87591-10**

Date Collected: 11/01/17 13:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 23:09	KMG	TAL CAN

**Client Sample ID: ED-00.39-SD02-(2.20-2.41')**

**Lab Sample ID: 240-87591-11**

Date Collected: 11/01/17 13:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.39-SD02-(2.20-2.41')**

**Lab Sample ID: 240-87591-11**

Date Collected: 11/01/17 13:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/14/17 00:04	KMG	TAL CAN

**Client Sample ID: ED-00.39-SD02-(2.41-3.54')**

**Lab Sample ID: 240-87591-12**

Date Collected: 11/01/17 13:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.39-SD02-(2.41-3.54')**

**Lab Sample ID: 240-87591-12**

Date Collected: 11/01/17 13:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/14/17 00:22	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SD02-(3.54-4.30')**

**Lab Sample ID: 240-87591-13**

Date Collected: 11/01/17 14:00

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.39-SD02-(3.54-4.30')**

**Lab Sample ID: 240-87591-13**

Date Collected: 11/01/17 14:00

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 67.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/14/17 00:41	KMG	TAL CAN

**Client Sample ID: ED-00.47-SD02-(0-0.33')**

**Lab Sample ID: 240-87591-14**

Date Collected: 10/30/17 14:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.47-SD02-(0-0.33')**

**Lab Sample ID: 240-87591-14**

Date Collected: 10/30/17 14:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/14/17 00:59	KMG	TAL CAN

**Client Sample ID: ED-00.47-SD02-(33-1.46')**

**Lab Sample ID: 240-87591-15**

Date Collected: 10/30/17 14:15

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.47-SD02-(33-1.46')**

**Lab Sample ID: 240-87591-15**

Date Collected: 10/30/17 14:15

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 61.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/14/17 01:17	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.47-SD02-(1.46-1.96')**

**Lab Sample ID: 240-87591-16**

Date Collected: 10/30/17 14:20

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.47-SD02-(1.46-1.96')**

**Lab Sample ID: 240-87591-16**

Date Collected: 10/30/17 14:20

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/14/17 02:31	KMG	TAL CAN

**Client Sample ID: ED-00.47-SD02-(1.96-3.13')**

**Lab Sample ID: 240-87591-17**

Date Collected: 10/30/17 14:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.47-SD02-(1.96-3.13')**

**Lab Sample ID: 240-87591-17**

Date Collected: 10/30/17 14:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/14/17 02:49	KMG	TAL CAN

**Client Sample ID: ED-00.51-SD02-(0-0.36')**

**Lab Sample ID: 240-87591-18**

Date Collected: 11/01/17 14:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.51-SD02-(0-0.36')**

**Lab Sample ID: 240-87591-18**

Date Collected: 11/01/17 14:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/14/17 03:07	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SD02-(0.36-0.68')**

**Lab Sample ID: 240-87591-19**

Date Collected: 11/01/17 14:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.51-SD02-(0.36-0.68')**

**Lab Sample ID: 240-87591-19**

Date Collected: 11/01/17 14:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 62.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/14/17 03:26	KMG	TAL CAN

**Client Sample ID: ED-00.51-SD02-(0.68-1.65')**

**Lab Sample ID: 240-87591-20**

Date Collected: 11/01/17 14:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.51-SD02-(0.68-1.65')**

**Lab Sample ID: 240-87591-20**

Date Collected: 11/01/17 14:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 44.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 12:08	LSH	TAL CAN

**Client Sample ID: ED-00.51-SD02-(1.65-1.75')**

**Lab Sample ID: 240-87591-21**

Date Collected: 11/01/17 14:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.51-SD02-(1.65-1.75')**

**Lab Sample ID: 240-87591-21**

Date Collected: 11/01/17 14:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 57.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 13:03	LSH	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.60-SD02-(0-1.76')**

**Lab Sample ID: 240-87591-22**

Date Collected: 10/31/17 11:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.60-SD02-(0-1.76')**

**Lab Sample ID: 240-87591-22**

Date Collected: 10/31/17 11:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 11:54	CSC	TAL CAN

**Client Sample ID: ED-00.60-SD02-(1.76-2.22')**

**Lab Sample ID: 240-87591-23**

Date Collected: 10/31/17 11:41

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.60-SD02-(1.76-2.22')**

**Lab Sample ID: 240-87591-23**

Date Collected: 10/31/17 11:41

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		50	303127	11/13/17 12:53	CSC	TAL CAN

**Client Sample ID: ED-00.60-SD02-(2.22-2.39')**

**Lab Sample ID: 240-87591-24**

Date Collected: 10/31/17 11:42

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.60-SD02-(2.22-2.39')**

**Lab Sample ID: 240-87591-24**

Date Collected: 10/31/17 11:42

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		20	303127	11/13/17 13:12	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.60-SD02-(2.39-2.63')**

**Lab Sample ID: 240-87591-25**

Date Collected: 10/31/17 11:43

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.60-SD02-(2.39-2.63')**

**Lab Sample ID: 240-87591-25**

Date Collected: 10/31/17 11:43

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 13:33	CSC	TAL CAN

**Client Sample ID: ED-00.60-SD02-(2.63-3.30')**

**Lab Sample ID: 240-87591-26**

Date Collected: 10/31/17 11:44

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.60-SD02-(2.63-3.30')**

**Lab Sample ID: 240-87591-26**

Date Collected: 10/31/17 11:44

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 13:54	CSC	TAL CAN

**Client Sample ID: ED-00.72-SD03-(0-2.06')**

**Lab Sample ID: 240-87591-27**

Date Collected: 10/31/17 13:15

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.72-SD03-(0-2.06')**

**Lab Sample ID: 240-87591-27**

Date Collected: 10/31/17 13:15

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 14:13	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SD03-(2.06-2.40')**

**Lab Sample ID: 240-87591-28**

Date Collected: 10/31/17 13:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.72-SD03-(2.06-2.40')**

**Lab Sample ID: 240-87591-28**

Date Collected: 10/31/17 13:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 14:33	CSC	TAL CAN

**Client Sample ID: ED-00.72-SD03-(2.40-3.50')**

**Lab Sample ID: 240-87591-29**

Date Collected: 10/31/17 13:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.72-SD03-(2.40-3.50')**

**Lab Sample ID: 240-87591-29**

Date Collected: 10/31/17 13:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 14:52	CSC	TAL CAN

**Client Sample ID: ED-00.72-SD03-(3.50-3.84')**

**Lab Sample ID: 240-87591-30**

Date Collected: 10/31/17 13:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.72-SD03-(3.50-3.84')**

**Lab Sample ID: 240-87591-30**

Date Collected: 10/31/17 13:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 15:13	CSC	TAL CAN

TestAmerica Canton



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SD03-(3.84-4.05')**

**Lab Sample ID: 240-87591-31**

Date Collected: 10/31/17 13:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.72-SD03-(3.84-4.05')**

**Lab Sample ID: 240-87591-31**

Date Collected: 10/31/17 13:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 16:32	CSC	TAL CAN

**Client Sample ID: ED-00.72-SD03-(4.05-4.30')**

**Lab Sample ID: 240-87591-32**

Date Collected: 10/31/17 13:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.72-SD03-(4.05-4.30')**

**Lab Sample ID: 240-87591-32**

Date Collected: 10/31/17 13:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 16:52	CSC	TAL CAN

**Client Sample ID: ED-00.72-SD03-(2.40-3.50)-FD**

**Lab Sample ID: 240-87591-33**

Date Collected: 10/31/17 13:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.72-SD03-(2.40-3.50)-FD**

**Lab Sample ID: 240-87591-33**

Date Collected: 10/31/17 13:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 17:12	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.82-SD02-(0-0.39')**

**Lab Sample ID: 240-87591-34**

Date Collected: 10/31/17 10:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.82-SD02-(0-0.39')**

**Lab Sample ID: 240-87591-34**

Date Collected: 10/31/17 10:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 11:14	LSH	TAL CAN

**Client Sample ID: ED-00.82-SD02-(0.39-0.70')**

**Lab Sample ID: 240-87591-35**

Date Collected: 10/31/17 10:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-00.82-SD02-(0.39-0.70')**

**Lab Sample ID: 240-87591-35**

Date Collected: 10/31/17 10:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 17:32	CSC	TAL CAN

**Client Sample ID: ED.01.03-SD02-(0-0.98)**

**Lab Sample ID: 240-87591-36**

Date Collected: 10/30/17 17:05

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED.01.03-SD02-(0-0.98)**

**Lab Sample ID: 240-87591-36**

Date Collected: 10/30/17 17:05

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 09:54	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED.01.03-SD02-(0-0.98)-FD**

**Lab Sample ID: 240-87591-37**

Date Collected: 10/30/17 17:05

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED.01.03-SD02-(0-0.98)-FD**

**Lab Sample ID: 240-87591-37**

Date Collected: 10/30/17 17:05

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		2	303440	11/14/17 22:54	CSC	TAL CAN

**Client Sample ID: ED-01.03-SD02.-(0.98-1.65')**

**Lab Sample ID: 240-87591-38**

Date Collected: 10/30/17 17:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

**Client Sample ID: ED-01.03-SD02.-(0.98-1.65')**

**Lab Sample ID: 240-87591-38**

Date Collected: 10/30/17 17:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		50	303127	11/13/17 10:33	CSC	TAL CAN

**Client Sample ID: ED-01.03-SD02-(0.98-1.65')-FD**

**Lab Sample ID: 240-87591-39**

Date Collected: 10/30/17 17:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-01.03-SD02-(0.98-1.65')-FD**

**Lab Sample ID: 240-87591-39**

Date Collected: 10/30/17 17:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		50	303127	11/13/17 10:53	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SD02-(1.65-1.87')**

**Lab Sample ID: 240-87591-40**

Date Collected: 10/30/17 17:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-01.03-SD02-(1.65-1.87')**

**Lab Sample ID: 240-87591-40**

Date Collected: 10/30/17 17:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		50	303127	11/13/17 11:13	CSC	TAL CAN

**Client Sample ID: ED-01.03-SD02-(1.87-2.25')**

**Lab Sample ID: 240-87591-41**

Date Collected: 10/30/17 17:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-01.03-SD02-(1.87-2.25')**

**Lab Sample ID: 240-87591-41**

Date Collected: 10/30/17 17:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303127	11/13/17 11:33	CSC	TAL CAN

**Client Sample ID: ED-01.14-SD02-(0-1.05')**

**Lab Sample ID: 240-87591-42**

Date Collected: 11/01/17 09:24

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-01.14-SD02-(0-1.05')**

**Lab Sample ID: 240-87591-42**

Date Collected: 11/01/17 09:24

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 13:22	LSH	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.22-SD02-(0-0.17')**

**Lab Sample ID: 240-87591-43**

Date Collected: 11/01/17 10:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-01.22-SD02-(0-0.17')**

**Lab Sample ID: 240-87591-43**

Date Collected: 11/01/17 10:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 13:40	LSH	TAL CAN

**Client Sample ID: ED-01.22-SD02-(0.17-0.29')**

**Lab Sample ID: 240-87591-44**

Date Collected: 11/01/17 10:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-01.22-SD02-(0.17-0.29')**

**Lab Sample ID: 240-87591-44**

Date Collected: 11/01/17 10:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 14:54	LSH	TAL CAN

**Client Sample ID: ED-01.37-SD02-(0-0.9')**

**Lab Sample ID: 240-87591-45**

Date Collected: 11/02/17 09:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-01.37-SD02-(0-0.9')**

**Lab Sample ID: 240-87591-45**

Date Collected: 11/02/17 09:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 15:12	LSH	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SD03-(0-0.70')**

**Lab Sample ID: 240-87591-46**

Date Collected: 10/31/17 10:23

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-01.49-SD03-(0-0.70')**

**Lab Sample ID: 240-87591-46**

Date Collected: 10/31/17 10:23

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 17:52	CSC	TAL CAN

**Client Sample ID: ED-00.82-SOL04-(0-0.13')**

**Lab Sample ID: 240-87591-47**

Date Collected: 10/31/17 16:34

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-00.82-SOL04-(0-0.13')**

**Lab Sample ID: 240-87591-47**

Date Collected: 10/31/17 16:34

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 09:12	SEM	TAL CAN

**Client Sample ID: ED-00.82-SOL04-(0.13-0.5)**

**Lab Sample ID: 240-87591-48**

Date Collected: 10/31/17 16:35

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-00.82-SOL04-(0.13-0.5)**

**Lab Sample ID: 240-87591-48**

Date Collected: 10/31/17 16:35

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 09:32	SEM	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL01-(0-0.50')**

**Lab Sample ID: 240-87591-49**

Date Collected: 10/31/17 14:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-00.72-SL01-(0-0.50')**

**Lab Sample ID: 240-87591-49**

Date Collected: 10/31/17 14:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 09:51	SEM	TAL CAN

**Client Sample ID: ED-00.72-SL01-(0.50-1.0')**

**Lab Sample ID: 240-87591-50**

Date Collected: 10/31/17 14:13

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-00.72-SL01-(0.50-1.0')**

**Lab Sample ID: 240-87591-50**

Date Collected: 10/31/17 14:13

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 10:11	SEM	TAL CAN

**Client Sample ID: ED-00.60-SL03-(0-0.89')**

**Lab Sample ID: 240-87591-51**

Date Collected: 10/31/17 13:23

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.60-SL03-(0-0.89')**

**Lab Sample ID: 240-87591-51**

Date Collected: 10/31/17 13:23

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 16:04	SEM	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.60-SL03-(0.89-1.0')**

**Lab Sample ID: 240-87591-52**

Date Collected: 10/31/17 13:29

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.60-SL03-(0.89-1.0')**

**Lab Sample ID: 240-87591-52**

Date Collected: 10/31/17 13:29

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 10:30	SEM	TAL CAN

**Client Sample ID: ED-0060.SL01-(0-0.19')**

**Lab Sample ID: 240-87591-53**

Date Collected: 10/31/17 13:41

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-0060.SL01-(0-0.19')**

**Lab Sample ID: 240-87591-53**

Date Collected: 10/31/17 13:41

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 10:50	SEM	TAL CAN

**Client Sample ID: ED-0060.SL01-(0.19-1.0')**

**Lab Sample ID: 240-87591-54**

Date Collected: 10/31/17 13:49

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-0060.SL01-(0.19-1.0')**

**Lab Sample ID: 240-87591-54**

Date Collected: 10/31/17 13:49

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 07:42	CSC	TAL CAN

TestAmerica Canton



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-55**

Date Collected: 10/31/17 12:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-00.51-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-55**

Date Collected: 10/31/17 12:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		5	303080	11/11/17 11:10	SEM	TAL CAN

**Client Sample ID: ED-00.51-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-56**

Date Collected: 10/31/17 12:12

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-00.51-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-56**

Date Collected: 10/31/17 12:12

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		10	303080	11/11/17 11:30	SEM	TAL CAN

**Client Sample ID: ED-00.51-SL03-(0-0.5')-FD**

**Lab Sample ID: 240-87591-57**

Date Collected: 10/31/17 12:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-00.51-SL03-(0-0.5')-FD**

**Lab Sample ID: 240-87591-57**

Date Collected: 10/31/17 12:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		10	303080	11/11/17 11:49	SEM	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.51-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-58**

Date Collected: 10/31/17 11:35

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-00.51-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-58**

Date Collected: 10/31/17 11:35

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 12:09	SEM	TAL CAN

**Client Sample ID: ED-00.51.SL01-(0.5-1.0')**

**Lab Sample ID: 240-87591-59**

Date Collected: 10/31/17 11:41

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

**Client Sample ID: ED-00.51.SL01-(0.5-1.0')**

**Lab Sample ID: 240-87591-59**

Date Collected: 10/31/17 11:41

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 12:29	SEM	TAL CAN

**Client Sample ID: ED-00.47-SL04-(0-0.80')**

**Lab Sample ID: 240-87591-60**

Date Collected: 10/31/17 10:46

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.47-SL04-(0-0.80')**

**Lab Sample ID: 240-87591-60**

Date Collected: 10/31/17 10:46

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 12:48	SEM	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.47-SL03-(0-0.77')**

**Lab Sample ID: 240-87591-61**

Date Collected: 10/31/17 10:23

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.47-SL03-(0-0.77')**

**Lab Sample ID: 240-87591-61**

Date Collected: 10/31/17 10:23

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 13:08	SEM	TAL CAN

**Client Sample ID: ED-00.47-SL03-(0-0.77')-FD**

**Lab Sample ID: 240-87591-62**

Date Collected: 10/31/17 10:23

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.47-SL03-(0-0.77')-FD**

**Lab Sample ID: 240-87591-62**

Date Collected: 10/31/17 10:23

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 13:27	SEM	TAL CAN

**Client Sample ID: ED-00.47-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-63**

Date Collected: 10/31/17 10:04

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.47-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-63**

Date Collected: 10/31/17 10:04

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 13:47	SEM	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL04-(0-0.50')**

**Lab Sample ID: 240-87591-64**

Date Collected: 10/31/17 09:02

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.39-SL04-(0-0.50')**

**Lab Sample ID: 240-87591-64**

Date Collected: 10/31/17 09:02

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 14:07	SEM	TAL CAN

**Client Sample ID: ED-00.39-SL04-(0.50-1.0')**

**Lab Sample ID: 240-87591-65**

Date Collected: 10/31/17 09:06

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.39-SL04-(0.50-1.0')**

**Lab Sample ID: 240-87591-65**

Date Collected: 10/31/17 09:06

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 14:26	SEM	TAL CAN

**Client Sample ID: ED-00.39-SL03-(0-0.69')**

**Lab Sample ID: 240-87591-66**

Date Collected: 10/31/17 08:31

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.39-SL03-(0-0.69')**

**Lab Sample ID: 240-87591-66**

Date Collected: 10/31/17 08:31

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		5	303080	11/11/17 14:46	SEM	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL03-(0-0.69')-FD**

**Lab Sample ID: 240-87591-67**

Date Collected: 10/31/17 08:31

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.39-SL03-(0-0.69')-FD**

**Lab Sample ID: 240-87591-67**

Date Collected: 10/31/17 08:31

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302857	11/09/17 14:18	AMT	TAL CAN
Total/NA	Analysis	8082A		10	303043	11/10/17 16:43	LSH	TAL CAN

**Client Sample ID: ED-00.39-SL03-(0.69-0.98')**

**Lab Sample ID: 240-87591-68**

Date Collected: 10/31/17 08:37

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.39-SL03-(0.69-0.98')**

**Lab Sample ID: 240-87591-68**

Date Collected: 10/31/17 08:37

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302857	11/09/17 14:18	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303043	11/10/17 16:26	LSH	TAL CAN

**Client Sample ID: ED-00.39-SL03-(0.98-1.17')**

**Lab Sample ID: 240-87591-69**

Date Collected: 10/31/17 08:40

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.39-SL03-(0.98-1.17')**

**Lab Sample ID: 240-87591-69**

Date Collected: 10/31/17 08:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303305	11/14/17 08:02	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.39-SL03-(1.17-1.5')**

**Lab Sample ID: 240-87591-70**

Date Collected: 10/31/17 08:44

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

**Client Sample ID: ED-00.39-SL03-(1.17-1.5')**

**Lab Sample ID: 240-87591-70**

Date Collected: 10/31/17 08:44

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302857	11/09/17 14:55	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303043	11/10/17 17:54	LSH	TAL CAN

**Client Sample ID: ED-00.39-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-71**

Date Collected: 10/31/17 08:11

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.39-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-71**

Date Collected: 10/31/17 08:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302857	11/09/17 14:18	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303043	11/10/17 17:01	LSH	TAL CAN

**Client Sample ID: ED-00.39-SL01-(0.5-1.0')**

**Lab Sample ID: 240-87591-72**

Date Collected: 10/31/17 08:17

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.39-SL01-(0.5-1.0')**

**Lab Sample ID: 240-87591-72**

Date Collected: 10/31/17 08:17

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 08:22	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL04-(0-0.5')**

**Lab Sample ID: 240-87591-73**

Date Collected: 10/30/17 14:54

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.25-SL04-(0-0.5')**

**Lab Sample ID: 240-87591-73**

Date Collected: 10/30/17 14:54

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 07:58	CSC	TAL CAN

**Client Sample ID: ED-00.25-SL04-(0.5-1.0')**

**Lab Sample ID: 240-87591-74**

Date Collected: 10/30/17 15:01

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.25-SL04-(0.5-1.0')**

**Lab Sample ID: 240-87591-74**

Date Collected: 10/30/17 15:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 08:19	CSC	TAL CAN

**Client Sample ID: ED-00.25-SL04-(1.0-1.5")**

**Lab Sample ID: 240-87591-75**

Date Collected: 10/30/17 15:20

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.25-SL04-(1.0-1.5")**

**Lab Sample ID: 240-87591-75**

Date Collected: 10/30/17 15:20

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 08:38	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL04-(1.5-2.0')**

**Lab Sample ID: 240-87591-76**

Date Collected: 10/30/17 15:27

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.25-SL04-(1.5-2.0')**

**Lab Sample ID: 240-87591-76**

Date Collected: 10/30/17 15:27

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 08:58	CSC	TAL CAN

**Client Sample ID: ED-00.25-SL03-(0.0.5')**

**Lab Sample ID: 240-87591-77**

Date Collected: 10/30/17 16:30

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.25-SL03-(0.0.5')**

**Lab Sample ID: 240-87591-77**

Date Collected: 10/30/17 16:30

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 09:18	CSC	TAL CAN

**Client Sample ID: ED-00.25-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-78**

Date Collected: 10/30/17 16:51

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.25-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-78**

Date Collected: 10/30/17 16:51

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 09:38	CSC	TAL CAN

TestAmerica Canton



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL02-(0-0.5')**

**Lab Sample ID: 240-87591-79**

Date Collected: 10/30/17 16:01

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.25-SL02-(0-0.5')**

**Lab Sample ID: 240-87591-79**

Date Collected: 10/30/17 16:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		5	302905	11/10/17 09:57	CSC	TAL CAN

**Client Sample ID: ED-00.25-SL02-(0-0.5')-FD**

**Lab Sample ID: 240-87591-80**

Date Collected: 10/30/17 16:01

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.25-SL02-(0-0.5')-FD**

**Lab Sample ID: 240-87591-80**

Date Collected: 10/30/17 16:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		5	302905	11/10/17 10:17	CSC	TAL CAN

**Client Sample ID: ED-00.25-SL02-(0.5-1.0')**

**Lab Sample ID: 240-87591-81**

Date Collected: 10/30/17 16:09

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.25-SL02-(0.5-1.0')**

**Lab Sample ID: 240-87591-81**

Date Collected: 10/30/17 16:09

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 10:37	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.25-SL02-(1.0-1.5')**

**Lab Sample ID: 240-87591-82**

Date Collected: 10/30/17 16:10

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.25-SL02-(1.0-1.5')**

**Lab Sample ID: 240-87591-82**

Date Collected: 10/30/17 16:10

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		2	302905	11/10/17 14:56	CSC	TAL CAN

**Client Sample ID: ED-00.08-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-83**

Date Collected: 10/30/17 12:20

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-83**

Date Collected: 10/30/17 12:20

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		10	302905	11/10/17 15:16	CSC	TAL CAN

**Client Sample ID: ED-00.08-SL03-(0.5-0.97')**

**Lab Sample ID: 240-87591-84**

Date Collected: 10/30/17 12:33

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL03-(0.5-0.97')**

**Lab Sample ID: 240-87591-84**

Date Collected: 10/30/17 12:33

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		2	302905	11/10/17 11:37	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL03-(0.97-1..47')**

**Lab Sample ID: 240-87591-85**

Date Collected: 10/30/17 12:45

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL03-(0.97-1..47')**

**Lab Sample ID: 240-87591-85**

Date Collected: 10/30/17 12:45

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		100	302905	11/10/17 11:56	CSC	TAL CAN

**Client Sample ID: ED-00.08-SL03-(1.5-2.0')**

**Lab Sample ID: 240-87591-86**

Date Collected: 10/30/17 12:53

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL03-(1.5-2.0')**

**Lab Sample ID: 240-87591-86**

Date Collected: 10/30/17 12:53

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		100	302905	11/10/17 12:57	CSC	TAL CAN

**Client Sample ID: ED-00.08-SL04-(0-0.67)**

**Lab Sample ID: 240-87591-87**

Date Collected: 10/30/17 13:18

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL04-(0-0.67)**

**Lab Sample ID: 240-87591-87**

Date Collected: 10/30/17 13:18

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 13:17	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL04-(0.67-0.86)**

**Lab Sample ID: 240-87591-88**

Date Collected: 10/30/17 13:27

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL04-(0.67-0.86)**

**Lab Sample ID: 240-87591-88**

Date Collected: 10/30/17 13:27

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 13:36	CSC	TAL CAN

**Client Sample ID: ED-00.08-SL04-(0.86-1.36)**

**Lab Sample ID: 240-87591-89**

Date Collected: 10/30/17 13:39

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL04-(0.86-1.36)**

**Lab Sample ID: 240-87591-89**

Date Collected: 10/30/17 13:39

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 08:42	CSC	TAL CAN

**Client Sample ID: ED-00.08-SL04-(1.5-2.0')**

**Lab Sample ID: 240-87591-90**

Date Collected: 10/30/17 13:44

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL04-(1.5-2.0')**

**Lab Sample ID: 240-87591-90**

Date Collected: 10/30/17 13:44

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 09:01	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-91**

Date Collected: 10/30/17 11:07

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-91**

Date Collected: 10/30/17 11:07

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 14:59	CSC	TAL CAN

**Client Sample ID: ED-00.08-SL01-(0.5-1.0')**

**Lab Sample ID: 240-87591-92**

Date Collected: 10/30/17 11:16

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL01-(0.5-1.0')**

**Lab Sample ID: 240-87591-92**

Date Collected: 10/30/17 11:16

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 09:21	CSC	TAL CAN

**Client Sample ID: ED-00.08-SL01-(1.0-1.86')**

**Lab Sample ID: 240-87591-93**

Date Collected: 10/30/17 11:22

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL01-(1.0-1.86')**

**Lab Sample ID: 240-87591-93**

Date Collected: 10/30/17 11:22

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 09:41	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.08-SL01-(1.86-2.0')**

**Lab Sample ID: 240-87591-94**

Date Collected: 10/30/17 11:34

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.08-SL01-(1.86-2.0')**

**Lab Sample ID: 240-87591-94**

Date Collected: 10/30/17 11:34

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 10:02	CSC	TAL CAN

**Client Sample ID: ED-01.37-SL03-(0-0.27')**

**Lab Sample ID: 240-87591-95**

Date Collected: 11/02/17 09:25

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.37-SL03-(0-0.27')**

**Lab Sample ID: 240-87591-95**

Date Collected: 11/02/17 09:25

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 10:22	CSC	TAL CAN

**Client Sample ID: ED-01.37-SL03-(0.27-0.92')**

**Lab Sample ID: 240-87591-96**

Date Collected: 11/02/17 09:26

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.37-SL03-(0.27-0.92')**

**Lab Sample ID: 240-87591-96**

Date Collected: 11/02/17 09:26

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 10:41	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.37-SL03-(0.92-1.07')**

**Lab Sample ID: 240-87591-97**

Date Collected: 11/02/17 09:28

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.37-SL03-(0.92-1.07')**

**Lab Sample ID: 240-87591-97**

Date Collected: 11/02/17 09:28

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 11:01	CSC	TAL CAN

**Client Sample ID: ED-01.37-SL03-(1.07-2.0')**

**Lab Sample ID: 240-87591-98**

Date Collected: 11/02/17 09:30

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.37-SL03-(1.07-2.0')**

**Lab Sample ID: 240-87591-98**

Date Collected: 11/02/17 09:30

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 11:20	CSC	TAL CAN

**Client Sample ID: ED-01.49-SL04-(0-0.5')**

**Lab Sample ID: 240-87591-99**

Date Collected: 11/01/17 14:10

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.49-SL04-(0-0.5')**

**Lab Sample ID: 240-87591-99**

Date Collected: 11/01/17 14:10

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 11:40	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SL04-(0.5-1.0')**

**Lab Sample ID: 240-87591-100**

Date Collected: 11/01/17 14:17

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.49-SL04-(0.5-1.0')**

**Lab Sample ID: 240-87591-100**

Date Collected: 11/01/17 14:17

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 12:00	CSC	TAL CAN

**Client Sample ID: ED-01.49-SL04-(1.0-1.81')**

**Lab Sample ID: 240-87591-101**

Date Collected: 11/01/17 14:27

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.49-SL04-(1.0-1.81')**

**Lab Sample ID: 240-87591-101**

Date Collected: 11/01/17 14:27

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 12:20	CSC	TAL CAN

**Client Sample ID: ED-01.49-SL04-(1.81-2.0')**

**Lab Sample ID: 240-87591-102**

Date Collected: 11/01/17 14:33

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.49-SL04-(1.81-2.0')**

**Lab Sample ID: 240-87591-102**

Date Collected: 11/01/17 14:33

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 12:39	CSC	TAL CAN

TestAmerica Canton



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL02-(0-0.5)**

**Lab Sample ID: 240-87591-103**

Date Collected: 10/31/17 14:50

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.72-SL02-(0-0.5)**

**Lab Sample ID: 240-87591-103**

Date Collected: 10/31/17 14:50

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303305	11/14/17 12:58	CSC	TAL CAN

**Client Sample ID: ED-00.72-SL02-(0.5-1.0')**

**Lab Sample ID: 240-87591-104**

Date Collected: 10/31/17 14:57

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.72-SL02-(0.5-1.0')**

**Lab Sample ID: 240-87591-104**

Date Collected: 10/31/17 14:57

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 72.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 11:37	CSC	TAL CAN

**Client Sample ID: ED-00.72-SL02-(1.0-1.5')**

**Lab Sample ID: 240-87591-105**

Date Collected: 10/31/17 15:04

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.72-SL02-(1.0-1.5')**

**Lab Sample ID: 240-87591-105**

Date Collected: 10/31/17 15:04

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		2	303503	11/15/17 07:49	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.24-SL01-(0-0.87')**

**Lab Sample ID: 240-87591-106**

Date Collected: 11/01/17 11:26

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.24-SL01-(0-0.87')**

**Lab Sample ID: 240-87591-106**

Date Collected: 11/01/17 11:26

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		10	303503	11/15/17 08:08	CSC	TAL CAN

**Client Sample ID: ED-01.24-SL01-(0.87-1.0')**

**Lab Sample ID: 240-87591-107**

Date Collected: 11/01/17 11:44

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.24-SL01-(0.87-1.0')**

**Lab Sample ID: 240-87591-107**

Date Collected: 11/01/17 11:44

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 12:32	CSC	TAL CAN

**Client Sample ID: ED-01.14-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-108**

Date Collected: 11/01/17 10:22

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.14-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-108**

Date Collected: 11/01/17 10:22

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 12:51	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.14-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-109**

Date Collected: 11/01/17 10:29

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.14-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-109**

Date Collected: 11/01/17 10:29

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 13:09	CSC	TAL CAN

**Client Sample ID: ED-01.14-SL03-(0.5-1.0')-FD**

**Lab Sample ID: 240-87591-110**

Date Collected: 11/01/17 10:29

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.14-SL03-(0.5-1.0')-FD**

**Lab Sample ID: 240-87591-110**

Date Collected: 11/01/17 10:29

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 13:27	CSC	TAL CAN

**Client Sample ID: ED-01.49-SL02-(0-0.5')**

**Lab Sample ID: 240-87591-111**

Date Collected: 11/01/17 13:50

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.49-SL02-(0-0.5')**

**Lab Sample ID: 240-87591-111**

Date Collected: 11/01/17 13:50

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 13:46	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.49-SL02-(0.5-1.0')**

**Lab Sample ID: 240-87591-112**

Date Collected: 11/01/17 13:55

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.49-SL02-(0.5-1.0')**

**Lab Sample ID: 240-87591-112**

Date Collected: 11/01/17 13:55

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 14:04	CSC	TAL CAN

**Client Sample ID: ED-01.37-SL01-(0-0.9')**

**Lab Sample ID: 240-87591-113**

Date Collected: 11/02/17 09:11

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.37-SL01-(0-0.9')**

**Lab Sample ID: 240-87591-113**

Date Collected: 11/02/17 09:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 14:23	CSC	TAL CAN

**Client Sample ID: ED-01.37-SL01-(0-0.9')-FD**

**Lab Sample ID: 240-87591-114**

Date Collected: 11/02/17 09:11

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.37-SL01-(0-0.9')-FD**

**Lab Sample ID: 240-87591-114**

Date Collected: 11/02/17 09:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 14:41	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SL03-(0-0.21')**

**Lab Sample ID: 240-87591-115**

Date Collected: 10/31/17 17:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.03-SL03-(0-0.21')**

**Lab Sample ID: 240-87591-115**

Date Collected: 10/31/17 17:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 14:59	CSC	TAL CAN

**Client Sample ID: ED-01.03-SL03-(0.21-1.0')**

**Lab Sample ID: 240-87591-116**

Date Collected: 10/31/17 17:13

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.03-SL03-(0.21-1.0')**

**Lab Sample ID: 240-87591-116**

Date Collected: 10/31/17 17:13

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 15:18	CSC	TAL CAN

**Client Sample ID: ED-00.82-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-117**

Date Collected: 10/31/17 16:11

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.82-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-117**

Date Collected: 10/31/17 16:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 15:36	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.82-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-118**

Date Collected: 10/31/17 16:15

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.82-SL03-(0.5-1.0')**

**Lab Sample ID: 240-87591-118**

Date Collected: 10/31/17 16:15

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 64.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 15:54	CSC	TAL CAN

**Client Sample ID: ED-00.72-SL04-(0-0.11')**

**Lab Sample ID: 240-87591-119**

Date Collected: 10/31/17 15:39

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.72-SL04-(0-0.11')**

**Lab Sample ID: 240-87591-119**

Date Collected: 10/31/17 15:39

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 16:13	CSC	TAL CAN

**Client Sample ID: ED-00.72-SL04-(0.11-0.47')**

**Lab Sample ID: 240-87591-120**

Date Collected: 10/31/17 15:40

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.72-SL04-(0.11-0.47')**

**Lab Sample ID: 240-87591-120**

Date Collected: 10/31/17 15:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 16:31	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-00.72-SL04-(0.47-1.0')**

**Lab Sample ID: 240-87591-121**

Date Collected: 10/31/17 15:46

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.72-SL04-(0.47-1.0')**

**Lab Sample ID: 240-87591-121**

Date Collected: 10/31/17 15:46

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 16:49	CSC	TAL CAN

**Client Sample ID: ED-01.49-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-122**

Date Collected: 11/01/17 13:40

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.49-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-122**

Date Collected: 11/01/17 13:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 18:03	CSC	TAL CAN

**Client Sample ID: ED-01.49-SL01-(0-0.5')-FD**

**Lab Sample ID: 240-87591-123**

Date Collected: 11/01/17 13:40

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.49-SL01-(0-0.5')-FD**

**Lab Sample ID: 240-87591-123**

Date Collected: 11/01/17 13:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 18:21	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.24-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-124**

Date Collected: 11/01/17 12:03

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.24-SL03-(0-0.5')**

**Lab Sample ID: 240-87591-124**

Date Collected: 11/01/17 12:03

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302976	11/10/17 09:13	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303214	11/13/17 18:12	CSC	TAL CAN

**Client Sample ID: ED-00.82-SL01-(0-0.22')**

**Lab Sample ID: 240-87591-125**

Date Collected: 10/31/17 16:04

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.82-SL01-(0-0.22')**

**Lab Sample ID: 240-87591-125**

Date Collected: 10/31/17 16:04

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302976	11/10/17 09:13	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303214	11/13/17 18:29	CSC	TAL CAN

**Client Sample ID: ED-00.82-SL01-(0.22-0.5')**

**Lab Sample ID: 240-87591-126**

Date Collected: 10/31/17 16:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-00.82-SL01-(0.22-0.5')**

**Lab Sample ID: 240-87591-126**

Date Collected: 10/31/17 16:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302976	11/10/17 09:13	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303214	11/13/17 19:40	CSC	TAL CAN

TestAmerica Canton



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

**Client Sample ID: ED-01.03-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-127**

Date Collected: 11/01/17 09:32

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.03-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-127**

Date Collected: 11/01/17 09:32

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302976	11/10/17 09:13	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303214	11/13/17 19:58	CSC	TAL CAN

**Client Sample ID: ED-01.03-SL01-(0-0.5')-FD**

**Lab Sample ID: 240-87591-128**

Date Collected: 11/01/17 09:32

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.03-SL01-(0-0.5')-FD**

**Lab Sample ID: 240-87591-128**

Date Collected: 11/01/17 09:32

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 13:18	CSC	TAL CAN

**Client Sample ID: ED-01.14-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-129**

Date Collected: 11/01/17 10:01

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

**Client Sample ID: ED-01.14-SL01-(0-0.5')**

**Lab Sample ID: 240-87591-129**

Date Collected: 11/01/17 10:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302976	11/10/17 09:13	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303311	11/14/17 16:12	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Client Sample ID: WATER DRUM

Lab Sample ID: 240-87591-130

Date Collected: 11/01/17 16:26

Matrix: Water

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			302648	11/08/17 13:53	DVT	TAL CAN
Total/NA	Analysis	8082A		1	302884	11/09/17 21:37	LSH	TAL CAN

## Client Sample ID: SOIL-SED DRUM

Lab Sample ID: 240-87591-131

Date Collected: 11/03/17 12:21

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

## Client Sample ID: SOIL-SED DRUM

Lab Sample ID: 240-87591-131

Date Collected: 11/03/17 12:21

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 15:30	LSH	TAL CAN

## Client Sample ID: EQUIP RINSATE

Lab Sample ID: 240-87591-132

Date Collected: 11/02/17 16:58

Matrix: Water

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			302648	11/08/17 13:53	DVT	TAL CAN
Total/NA	Analysis	8082A		1	302884	11/09/17 21:55	LSH	TAL CAN

## Client Sample ID: ED-00-72-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-133

Date Collected: 10/31/17 14:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

## Client Sample ID: ED-00-72-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-133

Date Collected: 10/31/17 14:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 14:39	CSC	TAL CAN

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

# Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

## Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



1-0/1.0 S.O/S.O  
1-4/1.4 O.Y/O.4

Chain of Custody Record

TestAmerica Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

Client Information  
Company: Jacqueline Lakoberg  
Address: 5988 Montclair Blvd  
City: Cincinnati  
State: OH, Zip: 45150  
Phone: 513-209-1966 (Tel)  
Email: lakoberg@caepinc.com

Lab/PM: Nestasie, Dominic J  
E-Mail: dominic.nestasie@testamerica.com  
Carrier Tracking Note: 4 Coolers

Due Date Requested:  
TAI Requested (days):  
PO #:  
WO #:  
Project #:  
SSOWN#:

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weather, Sealing, Operational, Other)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	602A - (MOD) PCBs 7 Analytes	Analysis Requested	Special Instructions/Note:
ED-00-08-SD02-(0-0.45)	10/30/17	1120	G	S		X	X			Sediment sample
ED-00-08-SD02-(0.45-0.75)	10/30/17	1125	G	S		X	X			Sediment sample
ED-00-08-SD02-(0.75-1.4)	10/30/17	1130	C	S		X	X			Sediment sample
ED-00-08-SD02-(0.75-1.4)-FD	10/30/17	1130	C	S		X	X			Sediment sample
ED-00-08-SD02-(1.4-2.03)	10/30/17	1140	G	S		X	X			Sediment sample
ED-00-25-SD01-(0-0.57)	11/1/17	1146	G	S		X	X			Sediment sample
ED-00-25-SD01-(0.57-3.51)	11/1/17	1201	G	S		X	X			Sediment sample
ED-00-25-SD01-(3.51-4.3)	11/1/17	1219	C	S		X	X			Sediment sample
ED-00-25-SD01-(3.51-4.3)-FD	11/1/17	1219	C	S		X	X			Sediment sample
ED-00-39-SD02-(0.2-2.0)	11/1/17	1335	C	S		X	X			Sediment sample
ED-00-39-SD02-(0.2-2.0)-MS	11/1/17	1335	C	S		X	X			Sediment sample

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify):

Retinquished by:	Date:	Company:	Method of Shipment:
<i>[Signature]</i>	11/6/17 0815	BC	
<i>[Signature]</i>	11-6-17 14:40	Quick	
<i>[Signature]</i>	11-6-17 17:00	THP	
<i>[Signature]</i>	11-7-17 1000	TA	

Empty Kit Relinquished by:  
 Retinquished by: *[Signature]* Date: 11/6/17 0815 Company: BC  
 Retinquished by: *[Signature]* Date/Time: 11-6-17 14:40 Company: Quick  
 Retinquished by: *[Signature]* Date/Time: 11-6-17 17:00 Company: THP  
 Retinquished by: *[Signature]* Date/Time: 11-7-17 1000 Company: TA

Custody Seals Intact:  Yes  No  
 Custody Seal No.:

TEMP-3.4, 3.3, 3.2, 3.0 OF=0 TWO #13



**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 487-9396 Fax (330) 497-0772

<b>Client Information</b>		Sampler: <b>Laura Campbell</b>		Lab PM: <b>Nestase, Dominic J</b>	
Client Contact: <b>Jacqueline Lakeberg</b>		Phone: <b>412-584-7176</b>		E-Mail: <b>dominic.nestase@testamerica.com</b>	
Company: <b>Civil &amp; Environmental Consultants Inc</b>		Due Date Requested:		Carrier Tracking No: <b>4</b>	
Address: <b>5988 Montclair Blvd</b>		City: <b>Cincinnati</b>		State: <b>OH</b>	
Zip: <b>45150</b>		Phone: <b>513-208-1966 (Tel)</b>		Email: <b>lakeberg@cecinc.com</b>	
Project Name: <b>Arconic, Inc. - Elliott Dile</b>		Project #: <b>24019083</b>		SSOW#	

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Invert, Brack, Ground, Surface, AWA)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	802A - (MOD) PCBs 7 Analytes	Analysis Requested	Special Instructions/Note:
ED-00 39-SD02-(0-2.20)-MSD	11/1/17	1335	C	S		X	X			Sediment sample
ED-00 39-SD02-(2.20-2.41)	11/1/17	1340	G	S		X	X			Sediment sample
ED-00 39-SD02-(2.41-3.54)	11/1/17	1345	G	S		X	X			Sediment sample
ED-00 39-SD02-(3.54-4.30)	11/1/17	1400	G	S		X	X			Sediment sample
ED-00 47-SD02-(0-0.33)	10/30/17	1410	G	S		X	X			Sediment sample
ED-00 47-SD02-(0.33-1.46)	10/30/17	1415	G	S		X	X			Sediment sample
ED-00 47-SD02-(1.46-1.96)	10/30/17	1420	G	S		X	X			Sediment sample
ED-00 47-SD02-(1.96-3.13)	10/30/17	1425	G	S		X	X			Sediment sample
ED-00 51-SD02-(0-0.36)	11/1/17	1440	G	S		X	X			Sediment sample
ED-00 51-SD02-(0.36-0.68)	11/1/17	1445	G	S		X	X			Sediment sample
ED-00 51-SD02-(0.68-1.65)	11/1/17	1450	G	S		X	X			Sediment sample

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  Radioactive

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Reinquished by: *[Signature]* Date: **11/6/17 0815** Company: **CEC**

Retrieved by: *[Signature]* Date/Time: **11-6-17 14:00** Company: **CEC**

Retrieved by: *[Signature]* Date/Time: **11-7-17 10:00** Company: **TA**

Custody Seal No.: **TA**



**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 487-9396 Fax (330) 497-0772

<b>Client Information</b>		Client Contact: <b>Jacqueline Lakeberg</b>		Sample: <b>Laura Campbell</b>		Lab PW: <b>Neustasie, Dominic J</b>		Carrier (Tracking No.): <b>4</b>		COC No:	
Company: <b>Civil &amp; Environmental Consultants Inc</b>		Address: <b>5988 Montclair Blvd</b>		Phone: <b>412-584-7176</b>		E-Mail: <b>dominic.neustasie@testamericainc.com</b>		Page: <b>3 of 14</b>		Job #:	
City: <b>Cincinnati</b>		State: <b>OH</b>		Zip: <b>45150</b>		Due Date Requested:		<b>Analysis Requested</b>		Preservation Codes:	
Phone: <b>513-209-1966 (Tel)</b>		Fax: <b>513-209-1966 (Fax)</b>		Email: <b>lakeberg@cecinc.com</b>		TAT Requested (days):				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Antichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (specify)	
Project Name: <b>Arconic, Inc. - Elliott Ditch</b>		Project #: <b>24019083</b>		WC #:		Field Filled Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
Site: <b>Arconic, Inc. - Elliott Ditch</b>		SSOW#:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=oil, G=grab, A=AA)	
<b>Sample Identification</b>		ED-00 51-SD02-(1.65-1.75)		11/1/17		1455		G		S	
ED-00 60-SD02-(0.1.76)		10/31/17		1140		C		S		S	
ED-00 60-SD02-(0.1.76)-MS		10/31/17		1140		C		S		S	
ED-00 60-SD02-(0.1.76)-MSD		10/31/17		1140		C		S		S	
ED-00 60-SD02-(1.76-2.22)		10/31/17		1141		G		S		S	
ED-00 60-SD02-(2.22-2.39)		10/31/17		1142		G		S		S	
ED-00 60-SD02-(2.39-2.63)		10/31/17		1143		G		S		S	
ED-00 60-SD02-(2.63-3.30)		10/31/17		1144		G		S		S	
ED-00 72-SD03-(0.2.06)		10/31/17		1315		G		S		S	
ED-00 72-SD03-(2.06-2.40)		10/31/17		1325		G		S		S	
ED-00 72-SD03-(2.40-3.50)		10/31/17		1330		C		S		S	
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Skin Sensitizer <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological		Date: <b>11/6/17 0815</b>		Company: <b>Quick</b>		Date/Time: <b>11-6-17 14:00</b>		Company: <b>Quick</b>	
Deliverable Requested: <b>I, II, III, IV, Other (specify)</b>		Empty Kit Requisitioned By: <b>[Signature]</b>		Date: <b>11-6-17 14:40</b>		Company: <b>Quick</b>		Date/Time: <b>11-6-17 17:00</b>		Company: <b>Quick</b>	
Custody Seals Intact: <b>Δ Yes Δ No</b>		Requisitioned by: <b>[Signature]</b>		Date: <b>11-7-17 1000</b>		Company: <b>Quick</b>		Date/Time: <b>11-7-17 1000</b>		Company: <b>Quick</b>	



**TestAmerica Canton**  
 4101 Shuffel Street NW  
 North Canton, OH 44720  
 Phone (330) 497-9396 Fax (330) 497-0772

**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b>		Company: <b>Civil &amp; Environmental Consultants Inc</b>		Lab #/W: <b>Nestase, Dominic J</b>	Carrier (acking Note): <b>4</b>
Client Contact: <b>Jacqueline Lakeberg</b>		Address: <b>5988 Montclair Blvd</b>		Phone: <b>412-584-7176</b>	Page: <b>4 of 14</b>
City: <b>Cincinnati</b>		State: <b>OH</b>		Job #:	
Zip: <b>45150</b>		TAT Requested (days):		Preservation Codes:	
Phone: <b>513-209-1966 (Tel)</b>		PO #:		M - Hezane N - None B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (specify)	
Email: <b>lakeberg@cecinc.com</b>		WO #:		Other:	
Project Name: <b>Arconic, Inc - Elliott Dnic</b>		Project #:		<b>Total Number of containers</b>	
Site:		SSOW#:		Special Instructions/Note:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Dross/slud, In-Tissue, AA, etc)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	902A - (MOD) PCBs 7 Analytes	Analysis Requested	Special Instructions/Note
ED-00 72-SD03-(3.50-3.84)	10/31/17	1335	G	S	X	X	X		Sediment sample
ED-00 72-SD03-(3.84-4.05)	10/31/17	1340	G	S	X	X	X		Sediment sample
ED-00 72-SD03-(4.05-4.30)	10/31/17	1345	G	S	X	X	X		Sediment sample
ED-00 72-SD03-(2.40-3.50)-FD	10/31/17	1330	C	S	X	X	X		Sediment sample
ED-00 82-SD02-(0-0.39)	10/31/17	1050	C	S	X	X	X		Sediment sample
ED-00 82-SD02-(0.0.39)-MS	10/31/17	1050	C	S	X	X	X		Sediment sample
ED-00 82-SD02-(0.0.39)-MSD	10/31/17	1050	C	S	X	X	X		Sediment sample
ED-00 82-SD02-(0.39-0.70)	10/31/17	1055	G	S	X	X	X		Sediment sample
ED-01 03-SD02-(0.0.98)	10/30/17	1705	C	S	X	X	X		Sediment sample
ED-01 03-SD02-(0.0.98)-FD	10/30/17	1705	C	S	X	X	X		Sediment sample
ED-01 03-SD02-(0.98-1.65)	10/30/17	1710	C	S	X	X	X		Sediment sample

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested:  I,  II,  III,  IV, Other (specify)

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: **Jacqueline Lakeberg** Date/Time: **11/6/17 08:5** Company: **Quica**

Relinquished by: **Chaz Kuntz** Date/Time: **11-6-17 14:40** Company: **Quica**

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements

Method of Shipment

Date/Time: **11-6-17 14:00** Company: **Quica**

Date/Time: **11-6-17 17:00** Company: **Quica**

Date/Time: **11-7-17 10:00** Company: **TA**



**TestAmerica Canton**  
 4101 Shuffel Street NW  
 North Canton, OH 44720  
 Phone (330) 497-9398 Fax (330) 497-0772

**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b> Company: Jacqueline Lakeberg Client Contact: Laura Campbell Address: 5988 Montclair Blvd, Cincinnati, OH 45150 Phone: 513-209-1968 (Tel) Email: lakebergj@arconic.com Project Name: Arconic, Inc. - Elliott Ditch Site:		Lab PM: Nestasie, Dominic J. E-Mail: dominic.nestasie@testamericainc.com	
<b>Due Date Requested:</b> TAT Requested (days): Standard: PO #: WO #: 172-367 Project #: 24019083 SSOWN#		Carmer / Recking No(s): Page 5 of 14 Job #	
<b>Analysis Requested</b> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 8082A - (MOD) PCBs 7 Analytes <input checked="" type="checkbox"/> Total Number of Containers:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - Nail-SO4 F - MeOH G - Amniox H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - Ash/Ag2 P - Na2SO4 Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Diodichlorhydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
<b>Sample Identification</b> ED-01 03-SD02-(0.98-1.65)-FD ED-01 03-SD02-(1.65-1.87) ED-01 03-SD02-(1.87-2.25) ED-01 14-SD02-(0-1.05) ED-01 22-SD02-(0-0.17) ED-01 22-SD02-(0.17-0.29) ED-01 37-SD02-(0-0.9) ED-01 49-SD03-(0-0.70)		Sample Date: 10/30/17, 10/30/17, 10/30/17, 11/1/17, 11/1/17, 11/1/17, 11/2/17, 10/31/17 Sample Time: 1710, 1730, 1735, 0924, 1050, 1055, 0950, 1023 Sample Type (C=Comp, G=Grab): C, G, G, G, G, G, G, G Matrix (Monomer, Inorganic, Organic, Acid): S, S, S, S, S, S, S, S Preservation Code:	
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
<b>Deliverable Requested:</b> I, II, III, IV, Other (specify)		Special Instructions/ICC Requirements:	
<b>Empty Kit Relinquished by:</b> Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 11/6/17 08:15, 11-6-17 14:00, 11-6-17 14:40 Date/Time: 11-6-17 14:00, 11-6-17 14:40, 11-7-17 10:00 Company: Quick, Quick, T-A	
<b>Custody Seals Intact:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	





**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

<b>Client Information</b>		Client Contact Jacqueline Lakeberg		Company Civil & Environmental Consultants Inc		Address 5988 Montclair Blvd Cincinnati OH 45150		City Cincinnati		State, Zip OH, 45150		Phone 513-209-1966 (Tel)		Email lakeberg@cecinc.com		Project Name Arconic, Inc. - Elliott D/C		Site		Lab PM Nestale, Dominic J		E-Mail dominic.nestale@testamericainc.com		Carrier Tracking Notes 4		COC No		Page 6 of 14		Job #											
<b>Due Date Requested:</b>		TAT Requested (days):		Standard		PO #		WO #		Placed #		SSOR#		Due Date Requested:		TAT Requested (days):		Standard		PO #		WO #		Placed #		SSOR#		Due Date Requested:		TAT Requested (days):		Standard		PO #		WO #		Placed #		SSOR#	
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C-Comp, G-grab)		Matrix (Water, Solid, Other)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		602A - (MOD) PCBs 7 Analytes		Total Number of Containers		Special Instructions/Note:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For		Months													
ED-00 82-SL04-(0-0.13')		10/31/17		1634		G		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		14:00		Quica													
ED-00 82-SL04-(0.13-0.5)		10/31/17		1635		G		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		14:00		Quica													
ED-00 72-SL01-(0-0.50')		10/31/17		1405		G		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		17:00		KPH													
ED-00 72-SL01-(0.50-1.0')		10/31/17		1413		G		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		17:00		KPH													
ED-00 60-SL03-(0-0.89')		10/31/17		1323		C		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		10:00		TA													
ED-00 60-SL03-(0.89'-MS)		10/31/17		1323		C		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		10:00		TA													
ED-00 60-SL03-(0.89'-MSD)		10/31/17		1323		C		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		10:00		TA													
ED-00 60-SL03-(0.89-1.0')		10/31/17		1329		G		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		10:00		TA													
ED-00 60-SL01-(0-0.19')		10/31/17		1341		G		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		10:00		TA													
ED-00 60-SL01-(0.19-1.0')		10/31/17		1349		G		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		10:00		TA													
ED-00 51-SL03-(0-0.5')		10/31/17		1205		C		S		X		X		X		1		Soil Sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/>		<input type="checkbox"/>		10:00		TA													
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Radiological		Special Instructions/QC Requirements		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For		Months																	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Reinquished by		Date:		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time					
Retrieved by: <i>[Signature]</i>		Date/Time: 11/6/17 08:15		Company: Quica		Date/Time: 11-6-17 14:00		Company: Quica		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA					
Retrieved by: <i>[Signature]</i>		Date/Time: 11-6-17 14:00		Company: Quica		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA					
Retrieved by: <i>[Signature]</i>		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA		Date/Time: 11-7-17 10:00		Company: TA					
Custody Seals Intact:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:																																					



**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shurfel Street NW  
North Canton, OH 44720  
Phone (330) 497-9398 Fax (330) 497-0772

<b>Client Information</b>		Client Contact: <u>Jaqueline Lakeberg</u>		Company: <u>Civil &amp; Environmental Consultants Inc</u>		Address: <u>5988 Montclair Blvd</u>		City: <u>Cincinnati</u>		State: <u>Zp</u>		Phone: <u>513-209-1966 (Tel)</u>		Email: <u>llakeberg@cecinc.com</u>		Project Name: <u>Arconic, Inc. - Elliott DfC</u>		Site: <u></u>		Due Date Requested: <u></u>		TAT Requested (days): <u></u>		PO #:		WO #:		Project #:		SSOW#:													
<b>Sampler</b>		Laura Campbell		Lab PM: <u>Nestase, Dominic J</u>		Carrier Tracking (Notes): <u>4</u>		COC No:		Page: <u>7</u> of <u>14</u>		Job #:		Preservation Codes:		M - Hezane		N - None		O - AsNH <sub>2</sub> OZ		P - Na <sub>2</sub> OAS		Q - NaHSO <sub>4</sub>		R - Na <sub>2</sub> SO <sub>3</sub>		S - H <sub>2</sub> SO <sub>4</sub>		T - TSP Dodecahydrate		U - Acetone		V - MCAA		W - pH 4.5		X - EDTA		L - EDA		Z - other (specify)	
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C-Comp, G-grab)		Matrix (Water, Solid, Dissolved, etc.)		Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8082A - (MOD) PCBs 7 Analytes		Total Number of Containers		Special Instructions/Note:																							
ED-00 51-SL03-(0.5-1.0)		10/31/17		1212		G		S		S		X		X		X		1		Soil Sample																							
ED-00 51-SL03-(0.0.5)-FD		10/31/17		1205		C		S		S		X		X		X		1		Soil Sample																							
ED-00 51-SL01-(0.0.5)		10/31/17		1135		G		S		S		X		X		X		1		Soil Sample																							
ED-00 51-SL01-(0.5-1.0)		10/31/17		1141		G		S		S		X		X		X		1		Soil Sample																							
ED-00 47-SL04-(0.0.80)		10/31/17		1046		G		S		S		X		X		X		1		Soil Sample																							
ED-00 47-SL03-(0.0.77)		10/31/17		1023		C		S		S		X		X		X		1		Soil Sample																							
ED-00 47-SL03-(0.0.77)-FD		10/31/17		1023		C		S		S		X		X		X		1		Soil Sample																							
ED-00 47-SL01-(0.0.5)		10/31/17		1004		G		S		S		X		X		X		1		Soil Sample																							
ED-00 39-SL04-(0.0.50)		10/31/17		0902		G		S		S		X		X		X		1		Soil Sample																							
ED-00 39-SL04-(0.50-1.0)		10/31/17		0906		G		S		S		X		X		X		1		Soil Sample																							
ED-00 39-SL03-(0.0.69)		10/31/17		0931		C		S		S		X		X		X		1		Soil Sample																							
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client		<input type="checkbox"/> Disposal By Lab		Archive For _____ Months																							
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: <u>Jaqueline Lakeberg</u>		Date: <u>11/6/17 0815</u>		Company: <u>Quick</u>		Date/Time: <u>11-6-17 14:40</u>		Company: <u>Quick</u>		Date/Time: <u>11-7-17 1000</u>		Company: <u>TA</u>																													
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Relinquished by: <u>Chris E. Kenny</u>		Date: <u>11-6-17 14:40</u>		Company: <u>Quick</u>		Date/Time: <u>11-6-17 14:40</u>		Company: <u>Quick</u>		Date/Time: <u>11-6-17 14:00</u>		Company: <u>Quick</u>																													



**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

Client Information		Lab PM		Client Tracking Note					
Company: <b>Civil &amp; Environmental Consultants Inc</b>		Nestase, Dominic J		Page 8 of 14					
Address: <b>5968 Montclair Blvd</b>		E-Mail: <b>dominic.nestase@testamericainc.com</b>		Job #					
City: <b>Cincinnati</b>		Phone: <b>Laura Campbell</b>		Preservation Codes:					
State: <b>OH</b>		Phone: <b>513-209-1966 (Tel)</b>		A - HCL					
Zip: <b>45150</b>		Phone: <b>172-367</b>		B - NaOH					
PO #: <b>172-367</b>		Project #: <b>24019083</b>		C - Zn Acetate					
Email: <b>lakeberg@cecinc.com</b>		SSOW#		D - Nitric Acid					
Project Name: <b>Arcenic, Inc - Elliott Ditch</b>				E - NaHSO4					
Site:				F - MeOH					
				G - Amchor					
				H - Ascorbic Acid					
				I - Ice					
				J - DI Water					
				K - EDTA					
				L - EDA					
				M - Hezane					
				N - None					
				O - AsH2O2					
				P - Na2OHS					
				Q - Na2SO3					
				R - Na2S2O3					
				S - H2SO4					
				T - 15P Dodecahydrate					
				U - Acetone					
				V - MCAA					
				W - pH 4.5					
				X - other (specify)					
				Z - other (specify)					
				Other:					
Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Water, Solid, Overstol, BT, T&T, A&A)	Field Filtered Sample (Yes or No)	Perform H&M/SO (Yes or No)	802A - (MOD) PCBs 7 Analytes	Total Number of Containers	Special Instructions/Note:
ED-00-39-SL03-(0-0.69)-FD	10/31/17	0831	C	S	X	X	X	1	Soil Sample
ED-00-39-SL03-(0.69-0.98)	10/31/17	0837	G	S	X	X	X	1	Soil Sample
ED-00-39-SL03-(0.98-1.17)	10/31/17	0840	G	S	X	X	X	1	Soil Sample
ED-00-39-SL03-(1.17-1.5)	10/31/17	0844	G	S	X	X	X	1	Soil Sample
ED-00-39-SL01-(0-0.5)	10/31/17	0811	C	S	X	X	X	1	Soil Sample
ED-00-39-SL01-(0-0.5)-MS	10/31/17	0811	C	S	X	X	X	1	Soil Sample
ED-00-39-SL01-(0-0.5)-MSD	10/31/17	0811	C	S	X	X	X	1	Soil Sample
ED-00-39-SL01-(0.5-1.0)	10/31/17	0817	G	S	X	X	X	1	Soil Sample
ED-00-25-SL04-(0-0.5)	10/30/17	1454	G	S	X	X	X	1	Soil Sample
ED-00-25-SL04-(0.5-1.0)	10/30/17	1501	G	S	X	X	X	1	Soil Sample
ED-00-25-SL04-(1.0-1.5)	10/30/17	1520	G	S	X	X	X	1	Soil Sample
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological									
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested: I, II, III, IV, Other (specify) _____									
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____									
Relinquished by: <i>Michelle Campbell</i> Date/Time: 11/6/17 0815 Company: <i>Quick</i>									
Relinquished by: <i>Michelle Campbell</i> Date/Time: 11-6-17 1440 Company: <i>Quick</i>									
Relinquished by: <i>Michelle Campbell</i> Date/Time: 11-9-17 1000 Company: <i>TA</i>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No									



**TestAmerica Canton**  
 4101 Shuffel Street NW  
 North Canton, OH 44720  
 Phone (330) 497-9396 Fax (330) 497-0772

**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b> Client Contact: <u>Jacqueline Lakeberg</u> Address: <u>5988 Montclair Blvd</u> City: <u>Cincinnati</u> State, Zip: <u>OH, 45150</u> Phone: <u>513-209-1966 (Tel)</u> Email: <u>lakeberg@cecinc.com</u> Project Name: <u>Arconic, Inc. - Elliott Ditch</u> Site: <u>SSOW#</u>		Lab PM: <u>Nestlasie, Dominic J</u> E-Mail: <u>dominic.nestlasie@testamericainc.com</u>		Carrier Tracking No: <u>4</u> Page <u>9</u> of <u>14</u> Job #															
<b>Due Date Requested:</b> TAT Requested (days): _____ Standard: _____ PO #: _____ WO #: _____ 172-367 Project #: <u>24019083</u> SSOW#		<b>Analysis Requested</b>																	
<b>Sample Identification</b>		<b>Sample Date</b>		<b>Sample Time</b>		<b>Sample Type (C=Comp, G=grab)</b>		<b>Matrix (W=water, S=solid, O=other)</b>		<b>Field Filtered Sample (Yes or No)</b>		<b>Perform MS/MSD (Yes or No)</b>		<b>802A - (MOD) PCBs 7 Analytes</b>		<b>Total Number of Containers</b>		<b>Special Instructions/Note:</b>	
ED-00 25-SL04-(1.5-2.0')		10/30/17		1527		G		S		X		X		1		Soil Sample			
ED-00 25-SL03-(0-0.5')		10/30/17		1630		G		S		X		X		1		Soil Sample			
ED-00 25-SL03-(0.5-1.0')		10/30/17		1651		G		S		X		X		1		Soil Sample			
ED-00 25-SL02-(0-0.5')		10/30/17		1601		C		S		X		X		1		Soil Sample			
ED-00 25-SL02-(0.0.5')FD		10/30/17		1601		C		S		X		X		1		Soil Sample			
ED-00 25-SL02-(0.5-1.0')		10/30/17		1609		G		S		X		X		1		Soil Sample			
ED-00 25-SL02-(1.0-1.5')		10/30/17		1610		G		S		X		X		1		Soil Sample			
ED-00 08-SL03-(0-0.5')		10/30/17		1220		G		S		X		X		1		Soil Sample			
ED-00 08-SL03-(0.5-0.97')		10/30/17		1233		G		S		X		X		1		Soil Sample			
ED-00 08-SL03-(0.97-1.47')		10/30/17		1245		G		S		X		X		1		Soil Sample			
ED-00 08-SL03-(1.5-2.0')		10/30/17		1253		G		S		X		X		1		Soil Sample			
ED-00 08-SL04-(0-0.67')		10/30/17		1318		G		S		X		X		1		Soil Sample			
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		<b>Special Instructions/QC Requirements:</b>		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>		Date/Time: <u>11-6-17 14:00</u> Company: <u>Quick</u>		Date/Time: <u>11-6-17 17:00</u> Company: <u>Quick</u>		Date/Time: <u>11-7-17 1000</u> Company: <u>TA</u>							
Relinquished by: <u>Jacqueline Lakeberg</u> Date: <u>11/6/17 0815</u> Company: <u>Quick</u>		Relinquished by: <u>Carl Z. Kowalski</u> Date: <u>11-6-17 14:40</u> Company: <u>Quick</u>		Relinquished by: _____ Date: _____ Company: _____		Relinquished by: _____ Date: _____ Company: _____		Relinquished by: _____ Date: _____ Company: _____		Relinquished by: _____ Date: _____ Company: _____		Relinquished by: _____ Date: _____ Company: _____							
Custody Seal No.: _____ Δ Yes Δ No		Custody Seal No.: _____		Custody Seal No.: _____		Custody Seal No.: _____		Custody Seal No.: _____		Custody Seal No.: _____		Custody Seal No.: _____							



**Chain of Custody Record**

**TestAmerica Canton**  
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North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

<b>Client Information</b> Company: Jacqueline Lakeberg Client Contact: Laura Campbell Address: 5988 Montclair Blvd, Cincinnati, OH 45150 Phone: 513-209-1966 (Tel) Email: lakeberg@caecinc.com Project Name: Arconic, Inc. - Elliott Dltc Site:		Lab PM: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericacalinc.com Carrier Tracking No(s): 4	
Due Date Requested: FAT Requested (days): PO #: WD #: Project #: SSON#:		Analysis Requested Total Number of Containers:	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchler H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Preservation Codes: M - Hexane N - None O - AsAcO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pr-4S Z - other (specify)	
<b>Sample Identification</b> ED-00-08-SL04-(0.67-0.86) ED-00-08-SL04-(0.86-1.36) ED-00-08-SL04-(1.5-2.0) ED-00-08-SL01-(0-0.5) ED-00-08-SL01-(0-0.5)-MS ED-00-08-SL01-(0-0.5)-MSD ED-00-08-SL01-(0.5-1.0) ED-00-08-SL01-(1.0-1.86) ED-00-08-SL01-(1.86-2.0) ED-01-37-SL02-(0-0.27) ED-01-37-SL02-(0.27-0.92)		Special Instructions/Note: Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample	
Sample Date 10/30/17 10/30/17 10/30/17 10/30/17 10/30/17 10/30/17 10/30/17 10/30/17 11/2/17 11/2/17		Sample Time 1327 1339 1344 1107 1107 1107 1116 1122 1134 0925 0926	
Sample Type (C=Comp, G=grab) G S G S G S C S C S C S G S G S G S G S G S		Matrix (Water, Solid, Overstabil, BT-Tissue, Ase) S S S S S S S S S S S	
Field Filtered Sample (Yes or No) 9082A - (MOD) PCBs 7 Analytes X X X X X X X X X X		Perform MS/MSD (Yes or No) X X X X X X X X X X	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by: <i>[Signature]</i> Date: 11/6/17 Time: 5:18:00 Company: Quick		Relinquished by: <i>[Signature]</i> Date: 11-6-17 Time: 14:40 Company: Quick	
Relinquished by: <i>[Signature]</i> Date: 11-6-17 Time: 14:40 Company: Quick		Relinquished by: <i>[Signature]</i> Date: 11-2-17 Time: 10:00 Company: TA	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	



**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

<b>Client Information</b>		Client Contact Jacqueline Lakeberg		Sampler Laura Campbell	LAB PM Nestase, Dominic J	Carrier Tracking Note <b>4</b>		COC No.	Page 11 of 14
Company Civil & Environmental Consultants Inc		Address 5988 Montclair Blvd		Phone Cincinnati	E-Mail dominic.nestase@testamericainc.com	Job #			
City Cincinnati		State, Zip OH, 45150		Due Date Requested	Analysis Requested		Preservation Codes:		
Phone 513-209-1986 (Tel)		Email lakeberg@cecinc.com		TAT Requested (days)	Standard		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - Nail-SSA F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - As/NO2 P - NiZnO4S Q - Ni2SO3 R - Ni2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		
Project Name Arconic, Inc. - Elliott Dtic		Project # 24019083		PO #	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers
Site		SSOW #		Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Water, Solid, On-surface, etc.)	Preservation Code	Special Instructions/Note
Sample Identification		Sample Date		Sample Time	Sample Type	Matrix	Preservation Code		
ED-01 37-SL02-(0.92-1.07')		11/2/17		0928	G	S			Soil Sample
ED-01 37-SL02-(1.07-2.0')		11/2/17		0930	G	S			Soil Sample
ED-01 49-SL04-(0-0.5')		11/1/17		1410	G	S			Soil Sample
ED-01 49-SL04-(0.5-1.0')		11/1/17		1417	G	S			Soil Sample
ED-01 49-SL04-(1.0-1.81')		11/1/17		1427	G	S			Soil Sample
ED-01 49-SL04-(1.81-2.0')		11/1/17		1433	G	S			Soil Sample
ED-00 72-SL02-(0-0.5')		10/31/17		1450	G	S			Soil Sample
ED-00 72-SL02-(0.5-1.0')		10/31/17		1457	G	S			Soil Sample
ED-00 72-SL02-(1.0-1.5')		10/31/17		1504	G	S			Soil Sample
ED-01 24-SL01-(0-0.87')		11/1/17		1126	G	S			Soil Sample
ED-01 24-SL01-(0.87-1.0')		11/1/17		1144	G	S			Soil Sample
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological		Date		Time		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date		Time		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by <i>[Signature]</i>		Date/Time 11/6/17 0815		Company		Date/Time 11-6-17 1400		Company Quick	
Relinquished by <i>[Signature]</i>		Date/Time 11-6-17 14:40		Company		Date/Time 11/17-1700		Company IANA	
Relinquished by <i>[Signature]</i>		Date/Time		Company		Date/Time 11-7-17 1000		Company TA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:							



**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

<b>Client Information</b>		Client Contact Jacqueline Lakeberg		Company Civil & Environmental Consultants Inc		Address 5986 Montclair Blvd Cincinnati OH, 45150 Phone 513-209-1666 (Tel)		E-Mail jlakeberg@cecinc.com		Project Name Aroclor, Inc. - Elliott Ditch		Site SSOW					
<b>Sample Information</b>		Sample Laura Campbell		Lab PM Nestase, Dominic J		Due Date Requested		TAT Requested (days)		Standard		Special Instructions/Note:					
Client Contact Jacqueline Lakeberg		Phone		E-Mail dominic.nestase@testamericainc.com		Carrier Tracking Note 4		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hezane N - None O - AsHClO2 P - Na2OAS Q - Na2S2O3 R - Na2S2O8 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		Special Instructions/Note:					
Company Civil & Environmental Consultants Inc		Address 5986 Montclair Blvd Cincinnati OH, 45150 Phone 513-209-1666 (Tel)		E-Mail jlakeberg@cecinc.com		Project Name Aroclor, Inc. - Elliott Ditch		Site SSOW		Due Date Requested		TAT Requested (days)		Standard		Special Instructions/Note:	
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, Overstabil, etc.)		Field Filtered Sample (Yes or No)		Perform MSMSD (Yes or No)		902A - (MOD) PCBs 7 Analyzers		Total Number of Containers	
ED-01 14-SL03-(0-0.5)		11/1/17		1022		G		S		X		X		1		Soil Sample	
ED-01 14-SL03-(0.5-1.0)		11/1/17		1029		C		S		X		X		1		Soil Sample	
ED-01 14-SL03-(0.5-1.0)-FD		11/1/17		1029		C		S		X		X		1		Soil Sample	
ED-01 49-SL02-(0-0.5)		11/1/17		1350		G		S		X		X		1		Soil Sample	
ED-01 49-SL02-(0.5-1.0)		11/1/17		1355		G		S		X		X		1		Soil Sample	
ED-01 37-SL01-(0-0.9)		11/2/17		0911		C		S		X		X		1		Soil Sample	
ED-01 37-SL01-(0-0.9)-FD		11/2/17		0911		C		S		X		X		1		Soil Sample	
ED-01 03-SL03-(0-0.21)		10/31/17		1705		G		S		X		X		1		Soil Sample	
ED-01 03-SL03-(0.21-1.0)		10/31/17		1713		G		S		X		X		1		Soil Sample	
ED-00 82-SL03-(0-0.5)		10/31/17		1611		G		S		X		X		1		Soil Sample	
ED-00 82-SL03-(0.5-1.0)		10/31/17		1615		G		S		X		X		1		Soil Sample	
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished By		Date		Time		Method of Shipment		Date/Time		Company		Date/Time		Company	
Relinquished by: <i>Laura Campbell</i>		Date: 11/6/17		0815		14:40		Quick		11-17-17		1000		11-17-17		1000	
Relinquished by: <i>Christy Kenny</i>		Date: 11-6-17		14:40		Quick		Quick		11-17-17		1000		11-17-17		1000	
Relinquished by: <i>Christy Kenny</i>		Date: 11-6-17		14:40		Quick		Quick		11-17-17		1000		11-17-17		1000	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:															



**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

<b>Client Information</b>		Client Contact Jacqueline Lakeberg		Company Civil & Environmental Consultants Inc	Address 5988 Montclair Blvd Cincinnati OH, 45150 Phone 513-209-1966 (Tel)	Lab PM Nestase, Dominic J	Carrier Tracking No(s) 4	DOC No	Page 13 of 14	Job #	
<b>Due Date Requested:</b>		Date Requested (days):		Standard		<b>Analysis Requested</b>		Preservation Codes:		Special Instructions/Note:	
<b>Sample Identification</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b> (C-Comp, G-grab)	<b>Matrix</b> (W-water, B-blood, O-oil, etc.)	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MSMSD (Yes or No)</b>	<b>Total Number of Containers</b>	M - Hexane N - None O - NaOH P - NaNO2 Q - Na2OAS R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - EDTA L - EDA Z - other (specify)		Other:	
ED-00 72-SL04-(0-0.11')	10/31/17	1539	G	S	X	X	1	Soil Sample			
ED-00 72-SL04-(0.11-0.47')	10/31/17	1540	G	S	X	X	1	Soil Sample			
ED-00 72-SL04-(0.47-1.0')	10/31/17	1546	G	S	X	X	1	Soil Sample			
ED-01 49-SL01-(0-0.5')	11/1/17	1340	C	S	X	X	1	Soil Sample			
ED-01 49-SL01-(0-0.5')-FD	11/1/17	1340	C	S	X	X	1	Soil Sample			
ED-01 24-SL03-(0-0.5')	11/1/17	1203	G	S	X	X	1	Soil Sample			
ED-00 82-SL01-(0-0.22')	10/31/17	1604	G	S	X	X	1	Soil Sample			
ED-00 82-SL01-(0.22-0.5')	10/31/17	1605	G	S	X	X	1	Soil Sample			
ED-01 03-SL01-(0-0.5')	11/1/17	0932	C	S	X	X	1	Soil Sample			
ED-01 03-SL01-(0-0.5')-FD	11/1/17	0932	C	S	X	X	1	Soil Sample			
ED-01 14-SL01-(0-0.5')	11/1/17	1001	C	S	X	X	1	Soil Sample			
<b>Possible Hazard Identification</b>											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological											
Deliverable Requested: I, II, III, IV, Other (specify)											
Empty Kit Relinquished by: <i>[Signature]</i> Date: 11/6/17 08:15											
Relinquished by: <i>[Signature]</i> Date/Time: 11-6-17 14:40											
Relinquished by: <i>[Signature]</i> Date/Time: 11-12-17 10:00											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Custody Seal No.: 1A											





**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-9772

<b>Client Information</b>		Client Contact Jacqueline Lakeberg		Lab PM Nestase, Dominic J	Carrier Tracking Note 4		COC No. Page 14 of 14 Job #
Company Civil & Environmental Consultants Inc		Address 5988 Montclair Blvd Cincinnati, OH 45150 Phone: 513-209-1966 (Tel) Email: jlakeberg@cecinc.com		E-Mail dominic.nestase@testamericainc.com		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Due Date Requested		TAT Requested (days)		Standard		Analysis Requested	
PO #		WO #		Project #		Total Number of Containers	
172-367		240-19083		SSON#		Perform MSM/SD (Yes or No)	
Field Filtered Sample (Yes or No)		Sample Date		Sample Time		Sample Type (C-Comp, G-grab)	
X		11/1/17		1001		C S	
X		11/1/17		1001		C S	
X		11/1/17		1626		C W	
X		11/3/17		1221		C S	
X		11/2/17		1658		C W	
Special Instructions/Note:		Sample Identification		Matrix (Water, Solid, Other)		Special Instructions/Note:	
Soil Sample		ED-01-14-SL01-(0-0.5)-MS		S		1	
Soil Sample		ED-01-14-SL01-(0-0.5)-MSD		S		1	
Run as sediment		Water Drum		W		2	
		Soil-Sed Drum		S		1	
		Equip Rinsate		W		2	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Possible Hazard Identification		Deliverable Requested I, II, III, IV, Other (specify)		Return To Client	
Archive For _____ Months		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Empty Kit Relinquished by		Special Instructions/OC Requirements	
Relinquished by _____		Date		Date/Time		Date/Time	
Relinquished by _____		11/6/17 08:15		11/6/17 14:40		11-6-17 14:00	
Relinquished by _____		11-6-17 14:40		11-7-17 10:00		11-7-17 10:00	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Company		Company	
Δ Yes Δ No				Company		Company	



TestAmerica Canton Sample Receipt Form/Narrative

Login #: 87591

Canton Facility

Client CIVIL & ENV. CONSO Site Name

Cooler unpacked by:

Cooler Received on 11-7-17 Opened on 11-7-17

POP

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

- 1. Cooler temperature upon receipt IR GUN# IR-8 (CF +0°C) Observed Cooler Temp. Corrected Cooler Temp. IR GUN #36 (CF +0.3°C) Observed Cooler Temp. Corrected Cooler Temp. IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. Corrected Cooler Temp.

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No -Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels be reconciled with the COC? Yes No

9. Were correct bottle(s) used for the test(s) indicated? Yes No

10. Sufficient quantity received to perform indicated analyses? Yes No

11. Are these work share samples? Yes No

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC697954

12. Were VOAs on the COC? Yes No

13. Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this.

14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No

15. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

RECEIVED SAMPLE ED-00.72-SLOT-(0-0.5) FD NOT ON COC. WILL LOG LAST 10/31/17 @ 1405

17. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired. Sample(s) were received in a broken container. Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory. Time preserved: Preservative(s) added/Lot number(s):



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Tel: (330)497-9396

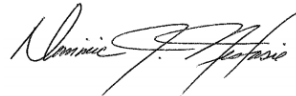
TestAmerica Job ID: 240-91496-1

Client Project/Site: Arconic, Inc. - Elliott Ditch

For:

Civil & Environmental Consultants Inc  
2704 Cherokee Farm Way  
Suite 101  
Knoxville, Tennessee 37920

Attn: Matt Bruck



Authorized for release by:  
2/26/2018 1:26:26 PM

Dominic Nestasie, Manager of Project Management  
(412)963-7058  
[dominic.nestasie@testamericainc.com](mailto:dominic.nestasie@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*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.*

- 1
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# Definitions/Glossary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits

### General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Job ID: 240-91496-1**

**Laboratory: TestAmerica Canton**

## Narrative

### Job Narrative 240-91496-1

#### Receipt:

The samples were received on 2/14/2018 at 9:40 AM; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at time of receipt were 2.1° C and 3.1° C.

#### Exceptional:

All samples with a depth of greater than 3 foot, were placed on hold per the client request.

#### PCB's:

Two surrogates are used for PCB analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following LCS (LCS 240-314904/24-A) contained an allowable number of surrogate compounds outside limits. These results have been reported and qualified.

Surrogate recoveries for the following sample ED-00.02-SL01-(2.18-3.43') (240-91496-8) and ED-00.13-SL01-(1.6-2.75') (240-91496-33) was outside the upper control limit. This sample did not contain any target analytes at the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

The following samples ED-00.00-SL01-(0-0.91') (240-91496-1), ED-00.00-SL01-(2.21-3.12') (240-91496-3), (LCS 240-314904/24-A) and (MB 240-314904/23-A), ED-00.05-SL01-(1.4-2.3') (240-91496-12), ED-00.05-SL01-(2.3-3.3') (240-91496-13), ED-00.08-SL03-(2.25-2.75') (240-91496-15), ED-00.08-SL05-(0-0.67') (240-91496-22) and ED-00.08-SL05-(0.67-1.25') (240-91496-23) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following samples ED-00.02-SL01-(0.63-1.76') (240-91496-6), ED-00.02-SL01-(2.18-3.43') (240-91496-8) ED-00.05-SL01-(1.4-2.3') (240-91496-12), ED-00.08-SL05-(0-0.67') (240-91496-22), ED-00.08-SL05-(0.67-1.25') (240-91496-23) ED-00.05-SL01-(1.4-2.3') (240-91496-12), ED-00.08-SL05-(0-0.67') (240-91496-22) and ED-00.08-SL05-(0.67-1.25') (240-91496-23). appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration. The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The following samples ED-00.13-SL01-(0-0.67') (240-91496-31), ED-00.13-SL01-(0.67-1.67') (240-91496-32), ED-00.13-SL01-(1.6-2.75') (240-91496-33), ED-00.17-SL01-(0-0.75') (240-91496-35), ED-00.17-SL01-(0-0.75')-DUP (240-91496-36), ED-00.17-SL01-(1.75-2.75') (240-91496-38), ED-00.17-SL01-(0.75-1.75') (240-91496-37), ED-00.55-SL01-(0.5-0.88') (240-91496-41), ED-00.55-SL02-(0-0.42') (240-91496-42), ED-00.55-SL02-(0.5-0.96') (240-91496-43), ED-01.24-SL04-(0-0.84') (240-91496-44), ED-01.24-SL04-(1-1.46') (240-91496-45), ED-01.24-SL05-(0-0.42') (240-91496-46), ED-01.24-SL05-(0-0.42')-DUP (240-91496-47), ED-01.24-SL05-(0.5-1.46') (240-91496-48), ED-01.24-SL06-(0.0-0.84') (240-91496-49), ED-01.24-SL06-(1-1.96') (240-91496-50), (240-91496-B-50-B MS) and (240-91496-B-50-C MSD). required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following samples ED-00.13-SL01-(0-0.67') (240-91496-31), ED-00.13-SL01-(0.67-1.67') (240-91496-32), ED-00.17-SL01-(0-0.75') (240-91496-35), ED-00.17-SL01-(0-0.75')-DUP (240-91496-36), ED-00.17-SL01-(1.75-2.75') (240-91496-38) ED-00.17-SL01-(0.75-1.75') (240-91496-37), ED-01.24-SL05-(0-0.42') (240-91496-46), ED-01.24-SL05-(0-0.42')-DUP (240-91496-47), ED-01.24-SL05-(0.5-1.46') (240-91496-48), ED-01.24-SL06-(0.0-0.84') (240-91496-49) and ED-01.24-SL06-(1-1.96') (240-91496-50) appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration. The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 240-314925 and analytical batch 240-315208 was outside control limits. Sample matrix interference is suspected.

# Case Narrative

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Job ID: 240-91496-1 (Continued)

### Laboratory: TestAmerica Canton (Continued)

The Decachlorobiphenyl surrogate in the continuing calibration verification (CCV) failed criteria. The Aroclors in the CCV's passed criteria and all the samples passed surrogate. After careful evaluation the data is reported. ED-00.13-SL01-(0-0.67') (240-91496-31), ED-00.55-SL02-(0.5-0.96') (240-91496-43), ED-01.24-SL04-(0-0.84') (240-91496-44), ED-01.24-SL04-(1-1.46') (240-91496-45), ED-01.24-SL05-(0-0.42') (240-91496-46), ED-01.24-SL05-(0-0.42')-DUP (240-91496-47), ED-01.24-SL05-(0.5-1.46') (240-91496-48), ED-01.24-SL06-(0.0-0.84') (240-91496-49), ED-01.24-SL06-(1-1.96') (240-91496-50), (240-91496-B-50-B MS) and (240-91496-B-50-C MSD)

The following samples ED-00.00-SL01-(0.91-2.21') (240-91496-2[MS]) and ED-00.00-SL01-(0.91-2.21') (240-91496-2[MSD]) were diluted due to the abundance of target analytes. Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry:

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep:

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Method Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

**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 CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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# Sample Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-91496-1	ED-00.00-SL01-(0-0.91')	Solid	02/07/18 09:16	02/14/18 09:40
240-91496-2	ED-00.00-SL01-(0.91-2.21')	Solid	02/07/18 09:16	02/14/18 09:40
240-91496-3	ED-00.00-SL01-(2.21-3.12')	Solid	02/07/18 09:16	02/14/18 09:40
240-91496-5	ED-00.02-SL01-(0-0.63')	Solid	02/07/18 09:38	02/14/18 09:40
240-91496-6	ED-00.02-SL01-(0.63-1.76')	Solid	02/07/18 09:38	02/14/18 09:40
240-91496-7	ED-00.02-SL01-(1.76-2.18')	Solid	02/07/18 09:38	02/14/18 09:40
240-91496-8	ED-00.02-SL01-(2.18-3.43')	Solid	02/07/18 09:38	02/14/18 09:40
240-91496-10	ED-00.05-SL01-(0-0.67')	Solid	02/07/18 10:03	02/14/18 09:40
240-91496-11	ED-00.05-SL01-(0.67-1.2')	Solid	02/07/18 10:03	02/14/18 09:40
240-91496-12	ED-00.05-SL01-(1.4-2.3')	Solid	02/07/18 10:03	02/14/18 09:40
240-91496-13	ED-00.05-SL01-(2.3-3.3')	Solid	02/07/18 10:03	02/14/18 09:40
240-91496-15	ED-00.08-SL03-(2.25-2.75')	Solid	02/07/18 10:11	02/14/18 09:40
240-91496-16	ED-00.08-SL03-(2.75-3.5')	Solid	02/07/18 10:11	02/14/18 09:40
240-91496-22	ED-00.08-SL05-(0-0.67')	Solid	02/07/18 10:26	02/14/18 09:40
240-91496-23	ED-00.08-SL05-(0.67-1.25')	Solid	02/07/18 10:26	02/14/18 09:40
240-91496-24	ED-00.08-SL05-(1.25-2.1')	Solid	02/07/18 10:26	02/14/18 09:40
240-91496-25	ED-00.08-SL05-(2.1-3')	Solid	02/07/18 10:26	02/14/18 09:40
240-91496-31	ED-00.13-SL01-(0-0.67')	Solid	02/07/18 10:33	02/14/18 09:40
240-91496-32	ED-00.13-SL01-(0.67-1.67')	Solid	02/07/18 10:33	02/14/18 09:40
240-91496-33	ED-00.13-SL01-(1.6-2.75')	Solid	02/07/18 10:33	02/14/18 09:40
240-91496-34	ED-00.13-SL01-(2.75-3.08')	Solid	02/07/18 10:33	02/14/18 09:40
240-91496-35	ED-00.17-SL01-(0-0.75')	Solid	02/07/18 10:41	02/14/18 09:40
240-91496-36	ED-00.17-SL01-(0-0.75')-DUP	Solid	02/07/18 10:41	02/14/18 09:40
240-91496-37	ED-00.17-SL01-(0.75-1.75')	Solid	02/07/18 10:41	02/14/18 09:40
240-91496-38	ED-00.17-SL01-(1.75-2.75')	Solid	02/07/18 10:41	02/14/18 09:40
240-91496-39	ED-00.17-SL01-(2.75-3.75')	Solid	02/07/18 10:41	02/14/18 09:40
240-91496-40	ED-00.55-SL01-(0-0.42')	Solid	02/07/18 11:30	02/14/18 09:40
240-91496-41	ED-00.55-SL01-(0.5-0.88')	Solid	02/07/18 11:40	02/14/18 09:40
240-91496-42	ED-00.55-SL02-(0-0.42')	Solid	02/07/18 13:08	02/14/18 09:40
240-91496-43	ED-00.55-SL02-(0.5-0.96')	Solid	02/07/18 13:16	02/14/18 09:40
240-91496-44	ED-01.24-SL04-(0-0.84')	Solid	02/07/18 13:20	02/14/18 09:40
240-91496-45	ED-01.24-SL04-(1-1.46')	Solid	02/07/18 13:30	02/14/18 09:40
240-91496-46	ED-01.24-SL05-(0-0.42')	Solid	02/07/18 13:50	02/14/18 09:40
240-91496-47	ED-01.24-SL05-(0-0.42')-DUP	Solid	02/07/18 13:50	02/14/18 09:40
240-91496-48	ED-01.24-SL05-(0.5-1.46')	Solid	02/07/18 13:56	02/14/18 09:40
240-91496-49	ED-01.24-SL06-(0.0-0.84')	Solid	02/07/18 14:10	02/14/18 09:40
240-91496-50	ED-01.24-SL06-(1-1.96')	Solid	02/07/18 14:18	02/14/18 09:40
240-91496-51	ED-00.8-SL03-(1.25-2.25')	Solid	02/07/18 10:11	02/14/18 09:40

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Client Sample ID: ED-00.00-SL01-(0-0.91')

## Lab Sample ID: 240-91496-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	83.3		60.4	29.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	83.3		60.4	37.4	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.00-SL01-(0.91-2.21')

## Lab Sample ID: 240-91496-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	3120		300	144	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	3120		300	186	ug/Kg	5	☒	8082A	Total/NA

## Client Sample ID: ED-00.00-SL01-(2.21-3.12')

## Lab Sample ID: 240-91496-3

No Detections.

## Client Sample ID: ED-00.02-SL01-(0-0.63')

## Lab Sample ID: 240-91496-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1020		58.4	28.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1020		58.4	36.2	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.02-SL01-(0.63-1.76')

## Lab Sample ID: 240-91496-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	70.8		54.4	26.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	70.8		54.4	33.8	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.02-SL01-(1.76-2.18')

## Lab Sample ID: 240-91496-7

No Detections.

## Client Sample ID: ED-00.02-SL01-(2.18-3.43')

## Lab Sample ID: 240-91496-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	44.0	J	55.5	26.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	44.0	J	55.5	34.4	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.05-SL01-(0-0.67')

## Lab Sample ID: 240-91496-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	3190		322	155	ug/Kg	5	☒	8082A	Total/NA
Aroclor-1260	361		322	142	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	3550		322	200	ug/Kg	5	☒	8082A	Total/NA

## Client Sample ID: ED-00.05-SL01-(0.67-1.2')

## Lab Sample ID: 240-91496-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	30.8	J	58.6	28.1	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.05-SL01-(1.4-2.3')

## Lab Sample ID: 240-91496-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	54.5	J p	58.4	28.1	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Client Sample ID: ED-00.05-SL01-(1.4-2.3') (Continued)

Lab Sample ID: 240-91496-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Polychlorinated biphenyls, Total	54.5	J	58.4	36.2	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.05-SL01-(2.3-3.3')

Lab Sample ID: 240-91496-13

No Detections.

## Client Sample ID: ED-00.08-SL03-(2.25-2.75')

Lab Sample ID: 240-91496-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	49.4	J	54.4	26.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	49.4	J	54.4	33.7	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.08-SL03-(2.75-3.5')

Lab Sample ID: 240-91496-16

No Detections.

## Client Sample ID: ED-00.08-SL05-(0-0.67')

Lab Sample ID: 240-91496-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	17000		1210	579	ug/Kg	20	☒	8082A	Total/NA
Aroclor-1260	1230		1210	531	ug/Kg	20	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	18200		1210	748	ug/Kg	20	☒	8082A	Total/NA

## Client Sample ID: ED-00.08-SL05-(0.67-1.25')

Lab Sample ID: 240-91496-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5490		587	282	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1260	263	J	587	258	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	5750		587	364	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-00.08-SL05-(1.25-2.1')

Lab Sample ID: 240-91496-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	39.4	J	55.5	26.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	39.4	J	55.5	34.4	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.08-SL05-(2.1-3')

Lab Sample ID: 240-91496-25

No Detections.

## Client Sample ID: ED-00.13-SL01-(0-0.67')

Lab Sample ID: 240-91496-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5560		291	140	ug/Kg	5	☒	8082A	Total/NA
Aroclor-1260	352		291	128	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	5910		291	181	ug/Kg	5	☒	8082A	Total/NA

## Client Sample ID: ED-00.13-SL01-(0.67-1.67')

Lab Sample ID: 240-91496-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	300		58.4	28.1	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Client Sample ID: ED-00.13-SL01-(0.67-1.67') (Continued)

Lab Sample ID: 240-91496-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Polychlorinated biphenyls, Total	300		58.4	36.2	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.13-SL01-(1.6-2.75')

Lab Sample ID: 240-91496-33

No Detections.

## Client Sample ID: ED-00.13-SL01-(2.75-3.08')

Lab Sample ID: 240-91496-34

No Detections.

## Client Sample ID: ED-00.17-SL01-(0-0.75')

Lab Sample ID: 240-91496-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2940		314	151	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	427		314	138	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	3370		314	194	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.17-SL01-(0-0.75')-DUP

Lab Sample ID: 240-91496-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2640		310	149	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2640		310	192	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.17-SL01-(0.75-1.75')

Lab Sample ID: 240-91496-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	13500		562	270	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1260	965		562	247	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	14500		562	348	ug/Kg	10	☼	8082A	Total/NA

## Client Sample ID: ED-00.17-SL01-(1.75-2.75')

Lab Sample ID: 240-91496-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	51600		2950	1420	ug/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	51600		2950	1830	ug/Kg	50	☼	8082A	Total/NA

## Client Sample ID: ED-00.17-SL01-(2.75-3.75')

Lab Sample ID: 240-91496-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	34.8	J	56.1	26.9	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	34.8	J	56.1	34.8	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.55-SL01-(0-0.42')

Lab Sample ID: 240-91496-40

No Detections.

## Client Sample ID: ED-00.55-SL01-(0.5-0.88')

Lab Sample ID: 240-91496-41

No Detections.

## Client Sample ID: ED-00.55-SL02-(0-0.42')

Lab Sample ID: 240-91496-42

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Client Sample ID: ED-00.55-SL02-(0-0.42') (Continued)

## Lab Sample ID: 240-91496-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	30.7	J	65.7	30.2	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.55-SL02-(0.5-0.96')

## Lab Sample ID: 240-91496-43

No Detections.

## Client Sample ID: ED-01.24-SL04-(0-0.84')

## Lab Sample ID: 240-91496-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	31.0	J	54.8	26.3	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.24-SL04-(1-1.46')

## Lab Sample ID: 240-91496-45

No Detections.

## Client Sample ID: ED-01.24-SL05-(0-0.42')

## Lab Sample ID: 240-91496-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	803		67.0	32.2	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	182		67.0	29.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	985		67.0	41.6	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.24-SL05-(0-0.42')-DUP

## Lab Sample ID: 240-91496-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	899		61.3	29.4	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	194		61.3	27.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1090		61.3	38.0	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.24-SL05-(0.5-1.46')

## Lab Sample ID: 240-91496-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1100		64.5	31.0	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	205		64.5	28.4	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1310		64.5	40.0	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.24-SL06-(0.0-0.84')

## Lab Sample ID: 240-91496-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	127	p	64.5	30.9	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	29.9	J	64.5	28.4	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	157		64.5	40.0	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.24-SL06-(1-1.96')

## Lab Sample ID: 240-91496-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	135		61.5	29.5	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	29.6	J F2	61.5	27.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	165		61.5	38.1	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.8-SL03-(1.25-2.25')**

**Lab Sample ID: 240-91496-51**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4890		287	138	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	273	J	287	126	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5160		287	178	ug/Kg	5	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.00-SL01-(0-0.91')**

**Lab Sample ID: 240-91496-1**

**Date Collected: 02/07/18 09:16**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 85.8**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.6	U	60.4	26.6	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1221	29.0	U	60.4	29.0	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1232	27.8	U	60.4	27.8	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1242	22.9	U	60.4	22.9	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
<b>Aroclor-1248</b>	<b>83.3</b>		60.4	29.0	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1254	27.8	U	60.4	27.8	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1260	26.6	U	60.4	26.6	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1262	37.4	U	60.4	37.4	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1268	27.8	U	60.4	27.8	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
<b>Polychlorinated biphenyls, Total</b>	<b>83.3</b>		60.4	37.4	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		10 - 132	02/15/18 09:44	02/18/18 16:59	1
Tetrachloro-m-xylene	84		14 - 128	02/15/18 09:44	02/18/18 16:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.8</b>		0.1	0.1	%			02/15/18 11:31	1
<b>Percent Moisture</b>	<b>14.2</b>		0.1	0.1	%			02/15/18 11:31	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.00-SL01-(0.91-2.21')**

**Lab Sample ID: 240-91496-2**

**Date Collected: 02/07/18 09:16**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 83.6**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	132	U F1	300	132	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1221	144	U	300	144	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1232	138	U	300	138	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1242	114	U	300	114	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
<b>Aroclor-1248</b>	<b>3120</b>		300	144	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1254	138	U	300	138	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1260	132	U	300	132	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1262	186	U	300	186	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1268	138	U	300	138	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
<b>Polychlorinated biphenyls, Total</b>	<b>3120</b>		300	186	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		10 - 132	02/15/18 09:44	02/16/18 12:58	5
Tetrachloro-m-xylene	79		14 - 128	02/15/18 09:44	02/16/18 12:58	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.6</b>		0.1	0.1	%			02/15/18 11:31	1
<b>Percent Moisture</b>	<b>16.4</b>		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.00-SL01-(2.21-3.12')**

**Lab Sample ID: 240-91496-3**

**Date Collected: 02/07/18 09:16**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 89.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.2	U	55.0	24.2	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1221	26.4	U	55.0	26.4	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1232	25.3	U	55.0	25.3	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1242	20.9	U	55.0	20.9	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1248	26.4	U	55.0	26.4	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1254	25.3	U	55.0	25.3	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1260	24.2	U	55.0	24.2	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1262	34.1	U	55.0	34.1	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1268	25.3	U	55.0	25.3	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Polychlorinated biphenyls, Total	34.1	U	55.0	34.1	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		10 - 132	02/15/18 09:44	02/18/18 17:17	1
Tetrachloro-m-xylene	73		14 - 128	02/15/18 09:44	02/18/18 17:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.5		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	10.5		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.02-SL01-(0-0.63')**

**Lab Sample ID: 240-91496-5**

**Date Collected: 02/07/18 09:38**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 84.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1221	28.0	U	58.4	28.0	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1232	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1242	22.2	U	58.4	22.2	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
<b>Aroclor-1248</b>	<b>1020</b>		58.4	28.0	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1254	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1260	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1262	36.2	U	58.4	36.2	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1268	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
<b>Polychlorinated biphenyls, Total</b>	<b>1020</b>		58.4	36.2	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	132	p	10 - 132	02/15/18 09:44	02/18/18 17:54	1
Tetrachloro-m-xylene	123		14 - 128	02/15/18 09:44	02/18/18 17:54	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.5</b>		0.1	0.1	%			02/15/18 11:31	1
<b>Percent Moisture</b>	<b>15.5</b>		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.02-SL01-(0.63-1.76')**

**Lab Sample ID: 240-91496-6**

**Date Collected: 02/07/18 09:38**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 89.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.0	U	54.4	24.0	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1221	26.1	U	54.4	26.1	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1232	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1242	20.7	U	54.4	20.7	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
<b>Aroclor-1248</b>	<b>70.8</b>		54.4	26.1	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1254	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1260	24.0	U	54.4	24.0	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1262	33.8	U	54.4	33.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1268	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
<b>Polychlorinated biphenyls, Total</b>	<b>70.8</b>		54.4	33.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		10 - 132	02/15/18 09:44	02/18/18 18:12	1
Tetrachloro-m-xylene	90		14 - 128	02/15/18 09:44	02/18/18 18:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>89.1</b>		0.1	0.1	%			02/15/18 11:31	1
<b>Percent Moisture</b>	<b>10.9</b>		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.02-SL01-(1.76-2.18')**

**Lab Sample ID: 240-91496-7**

**Date Collected: 02/07/18 09:38**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 90.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.7	U	56.1	24.7	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1221	26.9	U	56.1	26.9	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1232	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1242	21.3	U	56.1	21.3	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1248	26.9	U	56.1	26.9	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1254	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1260	24.7	U	56.1	24.7	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1262	34.8	U	56.1	34.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1268	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Polychlorinated biphenyls, Total	34.8	U	56.1	34.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		10 - 132	02/15/18 09:44	02/18/18 18:31	1
Tetrachloro-m-xylene	81		14 - 128	02/15/18 09:44	02/18/18 18:31	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.2		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	9.8		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.02-SL01-(2.18-3.43')**

**Lab Sample ID: 240-91496-8**

**Date Collected: 02/07/18 09:38**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 89.3**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.4	U	55.5	24.4	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1221	26.6	U	55.5	26.6	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1232	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1242	21.1	U	55.5	21.1	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
<b>Aroclor-1248</b>	<b>44.0</b>	<b>J</b>	55.5	26.6	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1254	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1260	24.4	U	55.5	24.4	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1262	34.4	U	55.5	34.4	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1268	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
<b>Polychlorinated biphenyls, Total</b>	<b>44.0</b>	<b>J</b>	55.5	34.4	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	170	X	10 - 132	02/15/18 09:44	02/18/18 18:49	1
Tetrachloro-m-xylene	148	X	14 - 128	02/15/18 09:44	02/18/18 18:49	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>89.3</b>		0.1	0.1	%			02/15/18 11:31	1
<b>Percent Moisture</b>	<b>10.7</b>		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.05-SL01-(0-0.67')**

**Lab Sample ID: 240-91496-10**

**Date Collected: 02/07/18 10:03**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 79.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	142	U	322	142	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1221	155	U	322	155	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1232	148	U	322	148	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1242	123	U	322	123	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
<b>Aroclor-1248</b>	<b>3190</b>		322	155	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1254	148	U	322	148	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
<b>Aroclor-1260</b>	<b>361</b>		322	142	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1262	200	U	322	200	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1268	148	U	322	148	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
<b>Polychlorinated biphenyls, Total</b>	<b>3550</b>		322	200	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>DCB Decachlorobiphenyl</i>	123	p	10 - 132				02/15/18 09:44	02/18/18 19:26	5
<i>Tetrachloro-m-xylene</i>	114		14 - 128				02/15/18 09:44	02/18/18 19:26	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.1</b>		0.1	0.1	%			02/15/18 11:31	1
<b>Percent Moisture</b>	<b>20.9</b>		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.05-SL01-(0.67-1.2')**

**Lab Sample ID: 240-91496-11**

**Date Collected: 02/07/18 10:03**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 85.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.8	U	58.6	25.8	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1221	28.1	U	58.6	28.1	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1232	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1242	22.3	U	58.6	22.3	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
<b>Aroclor-1248</b>	<b>30.8</b>	<b>J</b>	58.6	28.1	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1254	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1260	25.8	U	58.6	25.8	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1262	36.3	U	58.6	36.3	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1268	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Polychlorinated biphenyls, Total	36.3	U	58.6	36.3	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		10 - 132	02/15/18 10:32	02/18/18 21:32	1
Tetrachloro-m-xylene	91		14 - 128	02/15/18 10:32	02/18/18 21:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.7</b>		0.1	0.1	%			02/15/18 11:31	1
<b>Percent Moisture</b>	<b>14.3</b>		0.1	0.1	%			02/15/18 11:31	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.05-SL01-(1.4-2.3')**

**Lab Sample ID: 240-91496-12**

**Date Collected: 02/07/18 10:03**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 86.4**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1221	28.1	U	58.4	28.1	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1232	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1242	22.2	U	58.4	22.2	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
<b>Aroclor-1248</b>	<b>54.5</b>	<b>J p</b>	58.4	28.1	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1254	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1260	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1262	36.2	U	58.4	36.2	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1268	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
<b>Polychlorinated biphenyls, Total</b>	<b>54.5</b>	<b>J</b>	58.4	36.2	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		10 - 132	02/15/18 10:32	02/18/18 15:15	1
Tetrachloro-m-xylene	62		14 - 128	02/15/18 10:32	02/18/18 15:15	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>86.4</b>		0.1	0.1	%			02/15/18 11:31	1
<b>Percent Moisture</b>	<b>13.6</b>		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.05-SL01-(2.3-3.3')**

**Lab Sample ID: 240-91496-13**

**Date Collected: 02/07/18 10:03**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 89.8**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	23.6	U	53.7	23.6	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1221	25.8	U	53.7	25.8	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1232	24.7	U	53.7	24.7	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1242	20.4	U	53.7	20.4	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1248	25.8	U	53.7	25.8	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1254	24.7	U	53.7	24.7	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1260	23.6	U	53.7	23.6	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1262	33.3	U	53.7	33.3	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1268	24.7	U	53.7	24.7	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Polychlorinated biphenyls, Total	33.3	U	53.7	33.3	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		10 - 132	02/15/18 10:32	02/18/18 15:32	1
Tetrachloro-m-xylene	77		14 - 128	02/15/18 10:32	02/18/18 15:32	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.8		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	10.2		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.08-SL03-(2.25-2.75')**

**Lab Sample ID: 240-91496-15**

**Date Collected: 02/07/18 10:11**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 92.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	23.9	U	54.4	23.9	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1221	26.1	U	54.4	26.1	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1232	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1242	20.7	U	54.4	20.7	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
<b>Aroclor-1248</b>	<b>49.4</b>	<b>J</b>	54.4	26.1	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1254	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1260	23.9	U	54.4	23.9	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1262	33.7	U	54.4	33.7	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1268	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
<b>Polychlorinated biphenyls, Total</b>	<b>49.4</b>	<b>J</b>	54.4	33.7	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		10 - 132	02/15/18 10:32	02/18/18 16:06	1
Tetrachloro-m-xylene	72		14 - 128	02/15/18 10:32	02/18/18 16:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>92.0</b>		0.1	0.1	%			02/15/18 11:31	1
<b>Percent Moisture</b>	<b>8.0</b>		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.08-SL03-(2.75-3.5')**

**Lab Sample ID: 240-91496-16**

**Date Collected: 02/07/18 10:11**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 82.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.6	U	60.5	26.6	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1221	29.0	U	60.5	29.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1232	27.8	U	60.5	27.8	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1242	23.0	U	60.5	23.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1248	29.0	U	60.5	29.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1254	27.8	U	60.5	27.8	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1260	26.6	U	60.5	26.6	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1262	37.5	U	60.5	37.5	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1268	27.8	U	60.5	27.8	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Polychlorinated biphenyls, Total	37.5	U	60.5	37.5	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		10 - 132	02/15/18 10:32	02/18/18 16:23	1
Tetrachloro-m-xylene	84		14 - 128	02/15/18 10:32	02/18/18 16:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.4		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	17.6		0.1	0.1	%			02/15/18 11:31	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.08-SL05-(0-0.67')**

**Lab Sample ID: 240-91496-22**

**Date Collected: 02/07/18 10:26**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 80.4**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	531	U	1210	531	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1221	579	U	1210	579	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1232	555	U	1210	555	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1242	459	U	1210	459	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
<b>Aroclor-1248</b>	<b>17000</b>		1210	579	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1254	555	U	1210	555	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
<b>Aroclor-1260</b>	<b>1230</b>		1210	531	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1262	748	U	1210	748	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1268	555	U	1210	555	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
<b>Polychlorinated biphenyls, Total</b>	<b>18200</b>		1210	748	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	92		10 - 132	02/15/18 10:32	02/18/18 18:06	20
<i>Tetrachloro-m-xylene</i>	112		14 - 128	02/15/18 10:32	02/18/18 18:06	20

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.4</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>19.6</b>		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.08-SL05-(0.67-1.25')**

**Lab Sample ID: 240-91496-23**

**Date Collected: 02/07/18 10:26**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 87.6**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	258	U	587	258	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1221	282	U	587	282	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1232	270	U	587	270	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1242	223	U	587	223	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
<b>Aroclor-1248</b>	<b>5490</b>		587	282	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1254	270	U	587	270	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
<b>Aroclor-1260</b>	<b>263</b>	<b>J</b>	587	258	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1262	364	U	587	364	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1268	270	U	587	270	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
<b>Polychlorinated biphenyls, Total</b>	<b>5750</b>		587	364	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		10 - 132	02/15/18 10:32	02/18/18 18:23	10
Tetrachloro-m-xylene	105		14 - 128	02/15/18 10:32	02/18/18 18:23	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.6</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>12.4</b>		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.08-SL05-(1.25-2.1')**

**Lab Sample ID: 240-91496-24**

**Date Collected: 02/07/18 10:26**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 89.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.4	U	55.5	24.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1221	26.6	U	55.5	26.6	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1232	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1242	21.1	U	55.5	21.1	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
<b>Aroclor-1248</b>	<b>39.4</b>	<b>J</b>	55.5	26.6	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1254	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1260	24.4	U	55.5	24.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1262	34.4	U	55.5	34.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1268	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
<b>Polychlorinated biphenyls, Total</b>	<b>39.4</b>	<b>J</b>	55.5	34.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	82		10 - 132	02/15/18 10:32	02/18/18 18:40	1
<i>Tetrachloro-m-xylene</i>	75		14 - 128	02/15/18 10:32	02/18/18 18:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>89.5</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>10.5</b>		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.08-SL05-(2.1-3')**

**Lab Sample ID: 240-91496-25**

**Date Collected: 02/07/18 10:26**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 88.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.9	U	58.8	25.9	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1221	28.2	U	58.8	28.2	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1232	27.0	U	58.8	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1242	22.3	U	58.8	22.3	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1248	28.2	U	58.8	28.2	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1254	27.0	U	58.8	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1260	25.9	U	58.8	25.9	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1262	36.4	U	58.8	36.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1268	27.0	U	58.8	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Polychlorinated biphenyls, Total	36.4	U	58.8	36.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		10 - 132	02/15/18 10:32	02/18/18 18:57	1
Tetrachloro-m-xylene	69		14 - 128	02/15/18 10:32	02/18/18 18:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.4		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	11.6		0.1	0.1	%			02/15/18 11:45	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.13-SL01-(0-0.67')**

**Lab Sample ID: 240-91496-31**

**Date Collected: 02/07/18 10:33**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 82.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	128	U	291	128	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1221	140	U	291	140	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1232	134	U	291	134	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1242	111	U	291	111	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
<b>Aroclor-1248</b>	<b>5560</b>		291	140	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1254	134	U	291	134	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
<b>Aroclor-1260</b>	<b>352</b>		291	128	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1262	181	U	291	181	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1268	134	U	291	134	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
<b>Polychlorinated biphenyls, Total</b>	<b>5910</b>		291	181	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		10 - 132	02/15/18 11:13	02/19/18 22:10	5
Tetrachloro-m-xylene	76		14 - 128	02/15/18 11:13	02/19/18 22:10	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>82.1</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>17.9</b>		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.13-SL01-(0.67-1.67')**

**Lab Sample ID: 240-91496-32**

**Date Collected: 02/07/18 10:33**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 89.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1221	28.1	U	58.4	28.1	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1232	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1242	22.2	U	58.4	22.2	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
<b>Aroclor-1248</b>	<b>300</b>		58.4	28.1	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1254	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1260	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1262	36.2	U	58.4	36.2	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1268	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
<b>Polychlorinated biphenyls, Total</b>	<b>300</b>		58.4	36.2	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		10 - 132	02/15/18 11:13	02/19/18 14:50	1
Tetrachloro-m-xylene	65		14 - 128	02/15/18 11:13	02/19/18 14:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>89.2</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>10.8</b>		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.13-SL01-(1.6-2.75')**

**Lab Sample ID: 240-91496-33**

**Date Collected: 02/07/18 10:33**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 87.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.4	U	57.8	25.4	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1221	27.7	U	57.8	27.7	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1232	26.6	U	57.8	26.6	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1242	22.0	U	57.8	22.0	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1248	27.7	U	57.8	27.7	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1254	26.6	U	57.8	26.6	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1260	25.4	U	57.8	25.4	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1262	35.8	U	57.8	35.8	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1268	26.6	U	57.8	26.6	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Polychlorinated biphenyls, Total	35.8	U	57.8	35.8	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	144	X	10 - 132	02/15/18 11:13	02/19/18 15:08	1
Tetrachloro-m-xylene	135	X	14 - 128	02/15/18 11:13	02/19/18 15:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.4		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	12.6		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.13-SL01-(2.75-3.08')**

**Lab Sample ID: 240-91496-34**

**Date Collected: 02/07/18 10:33**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 80.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.8	U	63.2	27.8	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1221	30.3	U	63.2	30.3	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1232	29.1	U	63.2	29.1	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1242	24.0	U	63.2	24.0	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1248	30.3	U	63.2	30.3	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1254	29.1	U	63.2	29.1	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1260	27.8	U	63.2	27.8	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1262	39.2	U	63.2	39.2	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1268	29.1	U	63.2	29.1	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Polychlorinated biphenyls, Total	39.2	U	63.2	39.2	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58	p	10 - 132	02/15/18 11:13	02/19/18 15:27	1
Tetrachloro-m-xylene	54		14 - 128	02/15/18 11:13	02/19/18 15:27	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.2		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	19.8		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.17-SL01-(0-0.75')**

**Lab Sample ID: 240-91496-35**

**Date Collected: 02/07/18 10:41**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 80.9**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	138	U	314	138	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1221	151	U	314	151	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1232	144	U	314	144	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1242	119	U	314	119	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
<b>Aroclor-1248</b>	<b>2940</b>		314	151	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1254	144	U	314	144	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
<b>Aroclor-1260</b>	<b>427</b>		314	138	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1262	194	U	314	194	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1268	144	U	314	144	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
<b>Polychlorinated biphenyls, Total</b>	<b>3370</b>		314	194	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		10 - 132	02/15/18 11:13	02/19/18 15:45	5
Tetrachloro-m-xylene	89		14 - 128	02/15/18 11:13	02/19/18 15:45	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.9</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>19.1</b>		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.17-SL01-(0-0.75')-DUP**

**Lab Sample ID: 240-91496-36**

**Date Collected: 02/07/18 10:41**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 83.3**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	136	U	310	136	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1221	149	U	310	149	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1232	143	U	310	143	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1242	118	U	310	118	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
<b>Aroclor-1248</b>	<b>2640</b>		310	149	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1254	143	U	310	143	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1260	136	U	310	136	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1262	192	U	310	192	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1268	143	U	310	143	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
<b>Polychlorinated biphenyls, Total</b>	<b>2640</b>		310	192	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		10 - 132	02/15/18 11:13	02/20/18 18:57	5
Tetrachloro-m-xylene	105		14 - 128	02/15/18 11:13	02/20/18 18:57	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.3</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>16.7</b>		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.17-SL01-(0.75-1.75')**

**Lab Sample ID: 240-91496-37**

**Date Collected: 02/07/18 10:41**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 89.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	247	U	562	247	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1221	270	U	562	270	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1232	258	U	562	258	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1242	213	U	562	213	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
<b>Aroclor-1248</b>	<b>13500</b>		562	270	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1254	258	U	562	258	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
<b>Aroclor-1260</b>	<b>965</b>		562	247	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1262	348	U	562	348	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1268	258	U	562	258	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
<b>Polychlorinated biphenyls, Total</b>	<b>14500</b>		562	348	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80	p	10 - 132	02/15/18 11:13	02/19/18 16:22	10
Tetrachloro-m-xylene	90		14 - 128	02/15/18 11:13	02/19/18 16:22	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>89.1</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>10.9</b>		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.17-SL01-(1.75-2.75')**

**Lab Sample ID: 240-91496-38**

**Date Collected: 02/07/18 10:41**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 85.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1300	U	2950	1300	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1221	1420	U	2950	1420	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1232	1360	U	2950	1360	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1242	1120	U	2950	1120	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
<b>Aroclor-1248</b>	<b>51600</b>		2950	1420	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1254	1360	U	2950	1360	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1260	1300	U	2950	1300	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1262	1830	U	2950	1830	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1268	1360	U	2950	1360	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
<b>Polychlorinated biphenyls, Total</b>	<b>51600</b>		2950	1830	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	121		10 - 132	02/15/18 11:13	02/20/18 19:13	50
Tetrachloro-m-xylene	121		14 - 128	02/15/18 11:13	02/20/18 19:13	50

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.0</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>15.0</b>		0.1	0.1	%			02/15/18 11:45	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.17-SL01-(2.75-3.75')**

**Lab Sample ID: 240-91496-39**

**Date Collected: 02/07/18 10:41**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 90.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.7	U	56.1	24.7	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1221	26.9	U	56.1	26.9	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1232	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1242	21.3	U	56.1	21.3	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
<b>Aroclor-1248</b>	<b>34.8</b>	<b>J</b>	56.1	26.9	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1254	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1260	24.7	U	56.1	24.7	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1262	34.8	U	56.1	34.8	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1268	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
<b>Polychlorinated biphenyls, Total</b>	<b>34.8</b>	<b>J</b>	56.1	34.8	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		10 - 132	02/15/18 11:13	02/19/18 16:58	1
Tetrachloro-m-xylene	67		14 - 128	02/15/18 11:13	02/19/18 16:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>90.6</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>9.4</b>		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.55-SL01-(0-0.42')**

**Lab Sample ID: 240-91496-40**

**Date Collected: 02/07/18 11:30**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 88.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.9	U	56.5	24.9	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1221	27.1	U	56.5	27.1	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1232	26.0	U	56.5	26.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1242	21.5	U	56.5	21.5	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1248	27.1	U	56.5	27.1	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1254	26.0	U	56.5	26.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1260	24.9	U	56.5	24.9	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1262	35.0	U	56.5	35.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1268	26.0	U	56.5	26.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Polychlorinated biphenyls, Total	35.0	U	56.5	35.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		10 - 132	02/15/18 11:13	02/19/18 17:17	1
Tetrachloro-m-xylene	80		14 - 128	02/15/18 11:13	02/19/18 17:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.1		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	11.9		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.55-SL01-(0.5-0.88')**

**Lab Sample ID: 240-91496-41**

**Date Collected: 02/07/18 11:40**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 87.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.1	U	59.3	26.1	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1221	28.4	U	59.3	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1232	27.3	U	59.3	27.3	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1242	22.5	U	59.3	22.5	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1248	28.4	U	59.3	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1254	27.3	U	59.3	27.3	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1260	26.1	U	59.3	26.1	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1262	36.7	U	59.3	36.7	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1268	27.3	U	59.3	27.3	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Polychlorinated biphenyls, Total	36.7	U	59.3	36.7	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74	p	10 - 132	02/15/18 11:13	02/19/18 17:35	1
Tetrachloro-m-xylene	82		14 - 128	02/15/18 11:13	02/19/18 17:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.6		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	12.4		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.55-SL02-(0-0.42')**

**Lab Sample ID: 240-91496-42**

**Date Collected: 02/07/18 13:08**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 77.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.9	U	65.7	28.9	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1221	31.5	U	65.7	31.5	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1232	30.2	U	65.7	30.2	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1242	25.0	U	65.7	25.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1248	31.5	U	65.7	31.5	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
<b>Aroclor-1254</b>	<b>30.7</b>	<b>J</b>	65.7	30.2	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1260	28.9	U	65.7	28.9	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1262	40.7	U	65.7	40.7	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1268	30.2	U	65.7	30.2	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Polychlorinated biphenyls, Total	40.7	U	65.7	40.7	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93	p	10 - 132	02/15/18 11:13	02/19/18 17:53	1
Tetrachloro-m-xylene	89		14 - 128	02/15/18 11:13	02/19/18 17:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>77.7</b>		0.1	0.1	%			02/15/18 11:45	1
<b>Percent Moisture</b>	<b>22.3</b>		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.55-SL02-(0.5-0.96')**

**Lab Sample ID: 240-91496-43**

**Date Collected: 02/07/18 13:16**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 78.9**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.3	U	64.2	28.3	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1221	30.8	U	64.2	30.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1232	29.5	U	64.2	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1242	24.4	U	64.2	24.4	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1248	30.8	U	64.2	30.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1254	29.5	U	64.2	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1260	28.3	U	64.2	28.3	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1262	39.8	U	64.2	39.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1268	29.5	U	64.2	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Polychlorinated biphenyls, Total	39.8	U	64.2	39.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		10 - 132	02/15/18 11:13	02/19/18 19:07	1
Tetrachloro-m-xylene	85		14 - 128	02/15/18 11:13	02/19/18 19:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.9		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	21.1		0.1	0.1	%			02/15/18 11:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-01.24-SL04-(0-0.84')**

**Lab Sample ID: 240-91496-44**

**Date Collected: 02/07/18 13:20**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 91.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.1	U	54.8	24.1	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1221	26.3	U	54.8	26.3	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1232	25.2	U	54.8	25.2	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1242	20.8	U	54.8	20.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
<b>Aroclor-1248</b>	<b>31.0</b>	<b>J</b>	54.8	26.3	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1254	25.2	U	54.8	25.2	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1260	24.1	U	54.8	24.1	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1262	34.0	U	54.8	34.0	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1268	25.2	U	54.8	25.2	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Polychlorinated biphenyls, Total	34.0	U	54.8	34.0	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		10 - 132	02/15/18 11:13	02/19/18 19:25	1
Tetrachloro-m-xylene	87		14 - 128	02/15/18 11:13	02/19/18 19:25	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>91.0</b>		0.1	0.1	%			02/15/18 11:54	1
<b>Percent Moisture</b>	<b>9.0</b>		0.1	0.1	%			02/15/18 11:54	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-01.24-SL04-(1-1.46')**

**Lab Sample ID: 240-91496-45**

**Date Collected: 02/07/18 13:30**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 85.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.8	U	58.6	25.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1221	28.1	U	58.6	28.1	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1232	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1242	22.3	U	58.6	22.3	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1248	28.1	U	58.6	28.1	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1254	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1260	25.8	U	58.6	25.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1262	36.4	U	58.6	36.4	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1268	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Polychlorinated biphenyls, Total	36.4	U	58.6	36.4	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		10 - 132	02/15/18 11:13	02/19/18 19:44	1
Tetrachloro-m-xylene	80		14 - 128	02/15/18 11:13	02/19/18 19:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.4		0.1	0.1	%			02/15/18 11:54	1
Percent Moisture	14.6		0.1	0.1	%			02/15/18 11:54	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-01.24-SL05-(0-0.42')**

**Lab Sample ID: 240-91496-46**

**Date Collected: 02/07/18 13:50**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 75.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.5	U	67.0	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1221	32.2	U	67.0	32.2	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1232	30.8	U	67.0	30.8	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1242	25.5	U	67.0	25.5	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
<b>Aroclor-1248</b>	<b>803</b>		67.0	32.2	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1254	30.8	U	67.0	30.8	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
<b>Aroclor-1260</b>	<b>182</b>		67.0	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1262	41.6	U	67.0	41.6	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1268	30.8	U	67.0	30.8	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
<b>Polychlorinated biphenyls, Total</b>	<b>985</b>		67.0	41.6	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		10 - 132	02/15/18 11:13	02/19/18 20:02	1
Tetrachloro-m-xylene	68		14 - 128	02/15/18 11:13	02/19/18 20:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>75.4</b>		0.1	0.1	%			02/15/18 11:54	1
<b>Percent Moisture</b>	<b>24.6</b>		0.1	0.1	%			02/15/18 11:54	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-01.24-SL05-(0-0.42')-DUP**

**Lab Sample ID: 240-91496-47**

**Date Collected: 02/07/18 13:50**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 77.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.0	U	61.3	27.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1221	29.4	U	61.3	29.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1232	28.2	U	61.3	28.2	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1242	23.3	U	61.3	23.3	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
<b>Aroclor-1248</b>	<b>899</b>		61.3	29.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1254	28.2	U	61.3	28.2	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
<b>Aroclor-1260</b>	<b>194</b>		61.3	27.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1262	38.0	U	61.3	38.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1268	28.2	U	61.3	28.2	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
<b>Polychlorinated biphenyls, Total</b>	<b>1090</b>		61.3	38.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77	p	10 - 132	02/15/18 11:13	02/19/18 20:20	1
Tetrachloro-m-xylene	80		14 - 128	02/15/18 11:13	02/19/18 20:20	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>77.9</b>		0.1	0.1	%			02/15/18 11:54	1
<b>Percent Moisture</b>	<b>22.1</b>		0.1	0.1	%			02/15/18 11:54	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-01.24-SL05-(0.5-1.46')**

**Lab Sample ID: 240-91496-48**

**Date Collected: 02/07/18 13:56**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 79.9**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.4	U	64.5	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1221	31.0	U	64.5	31.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1232	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1242	24.5	U	64.5	24.5	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
<b>Aroclor-1248</b>	<b>1100</b>		64.5	31.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1254	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
<b>Aroclor-1260</b>	<b>205</b>		64.5	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1262	40.0	U	64.5	40.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1268	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
<b>Polychlorinated biphenyls, Total</b>	<b>1310</b>		64.5	40.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	80		10 - 132	02/15/18 11:13	02/19/18 20:39	1
<i>Tetrachloro-m-xylene</i>	82		14 - 128	02/15/18 11:13	02/19/18 20:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.9</b>		0.1	0.1	%			02/15/18 11:54	1
<b>Percent Moisture</b>	<b>20.1</b>		0.1	0.1	%			02/15/18 11:54	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-01.24-SL06-(0.0-0.84')**

**Lab Sample ID: 240-91496-49**

**Date Collected: 02/07/18 14:10**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 79.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.4	U	64.5	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1221	30.9	U	64.5	30.9	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1232	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1242	24.5	U	64.5	24.5	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
<b>Aroclor-1248</b>	<b>127</b>	<b>p</b>	64.5	30.9	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1254	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
<b>Aroclor-1260</b>	<b>29.9</b>	<b>J</b>	64.5	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1262	40.0	U	64.5	40.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1268	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
<b>Polychlorinated biphenyls, Total</b>	<b>157</b>		64.5	40.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	85	p	10 - 132	02/15/18 11:13	02/19/18 20:57	1
<i>Tetrachloro-m-xylene</i>	79		14 - 128	02/15/18 11:13	02/19/18 20:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.1</b>		0.1	0.1	%			02/15/18 11:54	1
<b>Percent Moisture</b>	<b>20.9</b>		0.1	0.1	%			02/15/18 11:54	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-01.24-SL06-(1-1.96')**

**Lab Sample ID: 240-91496-50**

**Date Collected: 02/07/18 14:18**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 82.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.1	U F2	61.5	27.1	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1221	29.5	U	61.5	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1232	28.3	U	61.5	28.3	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1242	23.4	U	61.5	23.4	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
<b>Aroclor-1248</b>	<b>135</b>		61.5	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1254	28.3	U	61.5	28.3	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
<b>Aroclor-1260</b>	<b>29.6</b>	<b>J F2</b>	61.5	27.1	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1262	38.1	U	61.5	38.1	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1268	28.3	U	61.5	28.3	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
<b>Polychlorinated biphenyls, Total</b>	<b>165</b>		61.5	38.1	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	94		10 - 132	02/15/18 11:13	02/19/18 21:15	1
<i>Tetrachloro-m-xylene</i>	86		14 - 128	02/15/18 11:13	02/19/18 21:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>82.0</b>		0.1	0.1	%			02/15/18 11:54	1
<b>Percent Moisture</b>	<b>18.0</b>		0.1	0.1	%			02/15/18 11:54	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.8-SL03-(1.25-2.25')**

**Lab Sample ID: 240-91496-51**

**Date Collected: 02/07/18 10:11**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 85.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	126	U	287	126	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1221	138	U	287	138	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1232	132	U	287	132	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1242	109	U	287	109	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
<b>Aroclor-1248</b>	<b>4890</b>		287	138	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1254	132	U	287	132	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
<b>Aroclor-1260</b>	<b>273</b>	<b>J</b>	287	126	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1262	178	U	287	178	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1268	132	U	287	132	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
<b>Polychlorinated biphenyls, Total</b>	<b>5160</b>		287	178	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83	p	10 - 132	02/15/18 09:44	02/18/18 15:46	5
Tetrachloro-m-xylene	96		14 - 128	02/15/18 09:44	02/18/18 15:46	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.6</b>		0.1	0.1	%			02/15/18 11:54	1
<b>Percent Moisture</b>	<b>14.4</b>		0.1	0.1	%			02/15/18 11:54	1

# Surrogate Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1 (10-132)	TCX1 (14-128)
240-91496-1	ED-00.00-SL01-(0-0.91')	82	84
240-91496-3	ED-00.00-SL01-(2.21-3.12')	89	73
240-91496-5	ED-00.02-SL01-(0-0.63')	132 p	123
240-91496-6	ED-00.02-SL01-(0.63-1.76')	101	90
240-91496-7	ED-00.02-SL01-(1.76-2.18')	93	81
240-91496-8	ED-00.02-SL01-(2.18-3.43')	170 X	148 X
240-91496-10	ED-00.05-SL01-(0-0.67')	123 p	114
240-91496-11	ED-00.05-SL01-(0.67-1.2')	100	91
240-91496-11 MS	ED-00.05-SL01-(0.67-1.2')	85	81
240-91496-11 MSD	ED-00.05-SL01-(0.67-1.2')	83	77
240-91496-12	ED-00.05-SL01-(1.4-2.3')	67	62
240-91496-13	ED-00.05-SL01-(2.3-3.3')	76	77
240-91496-15	ED-00.08-SL03-(2.25-2.75')	77	72
240-91496-16	ED-00.08-SL03-(2.75-3.5')	84	84
240-91496-22	ED-00.08-SL05-(0-0.67')	92	112
240-91496-23	ED-00.08-SL05-(0.67-1.25')	95	105
240-91496-24	ED-00.08-SL05-(1.25-2.1')	82	75
240-91496-25	ED-00.08-SL05-(2.1-3')	79	69
240-91496-31	ED-00.13-SL01-(0-0.67')	59	76
240-91496-32	ED-00.13-SL01-(0.67-1.67')	70	65
240-91496-33	ED-00.13-SL01-(1.6-2.75')	144 X	135 X
240-91496-34	ED-00.13-SL01-(2.75-3.08')	58 p	54
240-91496-35	ED-00.17-SL01-(0-0.75')	95	89
240-91496-36	ED-00.17-SL01-(0-0.75')-DUP	108	105
240-91496-37	ED-00.17-SL01-(0.75-1.75')	80 p	90
240-91496-38	ED-00.17-SL01-(1.75-2.75')	121	121
240-91496-39	ED-00.17-SL01-(2.75-3.75')	75	67
240-91496-40	ED-00.55-SL01-(0-0.42')	85	80
240-91496-41	ED-00.55-SL01-(0.5-0.88')	74 p	82
240-91496-42	ED-00.55-SL02-(0-0.42')	93 p	89
240-91496-43	ED-00.55-SL02-(0.5-0.96')	87	85
240-91496-44	ED-01.24-SL04-(0-0.84')	89	87
240-91496-45	ED-01.24-SL04-(1-1.46')	79	80
240-91496-46	ED-01.24-SL05-(0-0.42')	72	68
240-91496-47	ED-01.24-SL05-(0-0.42')-DUP	77 p	80
240-91496-48	ED-01.24-SL05-(0.5-1.46')	80	82
240-91496-49	ED-01.24-SL06-(0.0-0.84')	85 p	79
240-91496-50	ED-01.24-SL06-(1-1.96')	94	86
240-91496-50 MS	ED-01.24-SL06-(1-1.96')	70 p	80
240-91496-50 MSD	ED-01.24-SL06-(1-1.96')	112	118
240-91496-51	ED-00.8-SL03-(1.25-2.25')	83 p	96
LCS 240-314904/24-A	Lab Control Sample	110	99
LCS 240-314916/24-A	Lab Control Sample	103	91
LCS 240-314925/24-A	Lab Control Sample	64 p	61
MB 240-314904/23-A	Method Blank	91	81
MB 240-314916/23-A	Method Blank	93	88
MB 240-314925/23-A	Method Blank	77	72

**Surrogate Legend**

# Surrogate Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

DCBP = DCB Decachlorobiphenyl  
TCX = Tetrachloro-m-xylene

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP2	TCX2
		(10-132)	(14-128)
240-91496-2	ED-00.00-SL01-(0.91-2.21')	97	79
240-91496-2 MS	ED-00.00-SL01-(0.91-2.21')	92	73
240-91496-2 MSD	ED-00.00-SL01-(0.91-2.21')	239 X	92
LCS 240-314904/24-A	Lab Control Sample	134 X	122
MB 240-314904/23-A	Method Blank	114	103

### Surrogate Legend

DCBP = DCB Decachlorobiphenyl  
TCX = Tetrachloro-m-xylene

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 240-314904/23-A**  
**Matrix: Solid**  
**Analysis Batch: 315017**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 314904**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	22.0	U	50.0	22.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1221	24.0	U	50.0	24.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1232	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1242	19.0	U	50.0	19.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1248	24.0	U	50.0	24.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1254	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1260	22.0	U	50.0	22.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1262	31.0	U	50.0	31.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1268	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	114		10 - 132	02/15/18 09:44	02/16/18 11:45	1
Tetrachloro-m-xylene	103		14 - 128	02/15/18 09:44	02/16/18 11:45	1

**Lab Sample ID: MB 240-314904/23-A**  
**Matrix: Solid**  
**Analysis Batch: 315196**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 314904**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	22.0	U	50.0	22.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1221	24.0	U	50.0	24.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1232	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1242	19.0	U	50.0	19.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1248	24.0	U	50.0	24.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1254	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1260	22.0	U	50.0	22.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1262	31.0	U	50.0	31.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1268	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		10 - 132	02/15/18 09:44	02/18/18 19:44	1
Tetrachloro-m-xylene	81		14 - 128	02/15/18 09:44	02/18/18 19:44	1

**Lab Sample ID: LCS 240-314904/24-A**  
**Matrix: Solid**  
**Analysis Batch: 315017**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 314904**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	1088		ug/Kg		109	47 - 120
Aroclor-1260	1000	1152		ug/Kg		115	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	134	X	10 - 132
Tetrachloro-m-xylene	122		14 - 128

TestAmerica Canton



# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 240-314904/24-A**

**Matrix: Solid**  
**Analysis Batch: 315196**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**  
**Prep Batch: 314904**

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Aroclor-1016	1000	878.4		ug/Kg		88	47 - 120
Aroclor-1260	1000	1092		ug/Kg		109	46 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	110		10 - 132
Tetrachloro-m-xylene	99		14 - 128

**Lab Sample ID: 240-91496-2 MS**

**Matrix: Solid**  
**Analysis Batch: 315017**

**Client Sample ID: ED-00.00-SL01-(0.91-2.21')**

**Prep Type: Total/NA**  
**Prep Batch: 314904**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Aroclor-1016	132	U F1	1140	2233	F1	ug/Kg	☼	195	31 - 120
Aroclor-1260	132	U	1140	970.4		ug/Kg	☼	85	21 - 122

Surrogate	MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	92		10 - 132
Tetrachloro-m-xylene	73		14 - 128

**Lab Sample ID: 240-91496-2 MSD**

**Matrix: Solid**  
**Analysis Batch: 315017**

**Client Sample ID: ED-00.00-SL01-(0.91-2.21')**

**Prep Type: Total/NA**  
**Prep Batch: 314904**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Aroclor-1016	132	U F1	1140	2737	F1	ug/Kg	☼	240	31 - 120	20	30
Aroclor-1260	132	U	1140	1088		ug/Kg	☼	95	21 - 122	11	30

Surrogate	MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	239	X	10 - 132
Tetrachloro-m-xylene	92		14 - 128

**Lab Sample ID: MB 240-314916/23-A**

**Matrix: Solid**  
**Analysis Batch: 315194**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**  
**Prep Batch: 314916**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	22.0	U	50.0	22.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1221	24.0	U	50.0	24.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1232	23.0	U	50.0	23.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1242	19.0	U	50.0	19.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1248	24.0	U	50.0	24.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1254	23.0	U	50.0	23.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1260	22.0	U	50.0	22.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1262	31.0	U	50.0	31.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1268	23.0	U	50.0	23.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1

TestAmerica Canton

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 240-314916/23-A**  
**Matrix: Solid**  
**Analysis Batch: 315194**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 314916**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	93		10 - 132	02/15/18 10:32	02/18/18 20:06	1
Tetrachloro-m-xylene	88		14 - 128	02/15/18 10:32	02/18/18 20:06	1

**Lab Sample ID: LCS 240-314916/24-A**  
**Matrix: Solid**  
**Analysis Batch: 315194**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 314916**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	873.2		ug/Kg		87	47 - 120
Aroclor-1260	1000	1040		ug/Kg		104	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	103		10 - 132
Tetrachloro-m-xylene	91		14 - 128

**Lab Sample ID: 240-91496-11 MS**  
**Matrix: Solid**  
**Analysis Batch: 315194**

**Client Sample ID: ED-00.05-SL01-(0.67-1.2')**  
**Prep Type: Total/NA**  
**Prep Batch: 314916**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	25.8	U	1190	882.5		ug/Kg	☼	74	31 - 120
Aroclor-1260	25.8	U	1190	1041		ug/Kg	☼	88	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	85		10 - 132
Tetrachloro-m-xylene	81		14 - 128

**Lab Sample ID: 240-91496-11 MSD**  
**Matrix: Solid**  
**Analysis Batch: 315194**

**Client Sample ID: ED-00.05-SL01-(0.67-1.2')**  
**Prep Type: Total/NA**  
**Prep Batch: 314916**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	25.8	U	1170	861.0		ug/Kg	☼	74	31 - 120	2	30
Aroclor-1260	25.8	U	1170	988.6		ug/Kg	☼	85	21 - 122	6	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	83		10 - 132
Tetrachloro-m-xylene	77		14 - 128

**Lab Sample ID: MB 240-314925/23-A**  
**Matrix: Solid**  
**Analysis Batch: 315208**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 314925**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	22.0	U	50.0	22.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1221	24.0	U	50.0	24.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1232	23.0	U	50.0	23.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1

TestAmerica Canton

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 240-314925/23-A**  
**Matrix: Solid**  
**Analysis Batch: 315208**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 314925**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1242	19.0	U	50.0	19.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1248	24.0	U	50.0	24.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1254	23.0	U	50.0	23.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1260	22.0	U	50.0	22.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1262	31.0	U	50.0	31.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1268	23.0	U	50.0	23.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	77		10 - 132	02/15/18 11:13	02/19/18 18:12	1
Tetrachloro-m-xylene	72		14 - 128	02/15/18 11:13	02/19/18 18:12	1

**Lab Sample ID: LCS 240-314925/24-A**  
**Matrix: Solid**  
**Analysis Batch: 315208**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 314925**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1260	1000	592.4		ug/Kg		59	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	64	p	10 - 132
Tetrachloro-m-xylene	61		14 - 128

**Lab Sample ID: 240-91496-50 MS**  
**Matrix: Solid**  
**Analysis Batch: 315208**

**Client Sample ID: ED-01.24-SL06-(1-1.96')**  
**Prep Type: Total/NA**  
**Prep Batch: 314925**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1260	27.1	U F2	1260	905.4		ug/Kg	☼	72	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	70	p	10 - 132
Tetrachloro-m-xylene	80		14 - 128

**Lab Sample ID: 240-91496-50 MSD**  
**Matrix: Solid**  
**Analysis Batch: 315208**

**Client Sample ID: ED-01.24-SL06-(1-1.96')**  
**Prep Type: Total/NA**  
**Prep Batch: 314925**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
										RPD	Limit
Aroclor-1016	27.1	U F2	1240	1412	F2	ug/Kg	☼	113	31 - 120	44	30
Aroclor-1260	27.1	U F2	1240	1497	F2	ug/Kg	☼	120	21 - 122	49	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	112		10 - 132
Tetrachloro-m-xylene	118		14 - 128

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# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Method: Moisture - Percent Moisture

Lab Sample ID: 240-91496-2 DU

Matrix: Solid

Analysis Batch: 314935

Client Sample ID: ED-00.00-SL01-(0.91-2.21')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
			Result	Qualifier				
Percent Solids	83.6		83.8		%		0.2	20
Percent Moisture	16.4		16.2		%		1	20

Lab Sample ID: 240-91496-11 DU

Matrix: Solid

Analysis Batch: 314935

Client Sample ID: ED-00.05-SL01-(0.67-1.2')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
			Result	Qualifier				
Percent Solids	85.7		86.4		%		0.8	20
Percent Moisture	14.3		13.6		%		5	20

Lab Sample ID: 240-91496-35 DU

Matrix: Solid

Analysis Batch: 314935

Client Sample ID: ED-00.17-SL01-(0-0.75')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
			Result	Qualifier				
Percent Solids	80.9		80.1		%		1	20
Percent Moisture	19.1		19.9		%		4	20

Lab Sample ID: 240-91496-44 DU

Matrix: Solid

Analysis Batch: 314935

Client Sample ID: ED-01.24-SL04-(0-0.84')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
			Result	Qualifier				
Percent Solids	91.0		87.2		%		4	20
Percent Moisture	9.0		12.8	F3	%		35	20

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## GC Semi VOA

### Prep Batch: 314904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-1	ED-00.00-SL01-(0-0.91')	Total/NA	Solid	3540C	
240-91496-2	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	3540C	
240-91496-3	ED-00.00-SL01-(2.21-3.12')	Total/NA	Solid	3540C	
240-91496-5	ED-00.02-SL01-(0-0.63')	Total/NA	Solid	3540C	
240-91496-6	ED-00.02-SL01-(0.63-1.76')	Total/NA	Solid	3540C	
240-91496-7	ED-00.02-SL01-(1.76-2.18')	Total/NA	Solid	3540C	
240-91496-8	ED-00.02-SL01-(2.18-3.43')	Total/NA	Solid	3540C	
240-91496-10	ED-00.05-SL01-(0-0.67')	Total/NA	Solid	3540C	
240-91496-51	ED-00.8-SL03-(1.25-2.25')	Total/NA	Solid	3540C	
MB 240-314904/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-314904/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-91496-2 MS	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	3540C	
240-91496-2 MSD	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	3540C	

### Prep Batch: 314916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-11	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	3540C	
240-91496-12	ED-00.05-SL01-(1.4-2.3')	Total/NA	Solid	3540C	
240-91496-13	ED-00.05-SL01-(2.3-3.3')	Total/NA	Solid	3540C	
240-91496-15	ED-00.08-SL03-(2.25-2.75')	Total/NA	Solid	3540C	
240-91496-16	ED-00.08-SL03-(2.75-3.5')	Total/NA	Solid	3540C	
240-91496-22	ED-00.08-SL05-(0-0.67')	Total/NA	Solid	3540C	
240-91496-23	ED-00.08-SL05-(0.67-1.25')	Total/NA	Solid	3540C	
240-91496-24	ED-00.08-SL05-(1.25-2.1')	Total/NA	Solid	3540C	
240-91496-25	ED-00.08-SL05-(2.1-3')	Total/NA	Solid	3540C	
MB 240-314916/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-314916/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-91496-11 MS	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	3540C	
240-91496-11 MSD	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	3540C	

### Prep Batch: 314925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-31	ED-00.13-SL01-(0-0.67')	Total/NA	Solid	3540C	
240-91496-32	ED-00.13-SL01-(0.67-1.67')	Total/NA	Solid	3540C	
240-91496-33	ED-00.13-SL01-(1.6-2.75')	Total/NA	Solid	3540C	
240-91496-34	ED-00.13-SL01-(2.75-3.08')	Total/NA	Solid	3540C	
240-91496-35	ED-00.17-SL01-(0-0.75')	Total/NA	Solid	3540C	
240-91496-36	ED-00.17-SL01-(0-0.75')-DUP	Total/NA	Solid	3540C	
240-91496-37	ED-00.17-SL01-(0.75-1.75')	Total/NA	Solid	3540C	
240-91496-38	ED-00.17-SL01-(1.75-2.75')	Total/NA	Solid	3540C	
240-91496-39	ED-00.17-SL01-(2.75-3.75')	Total/NA	Solid	3540C	
240-91496-40	ED-00.55-SL01-(0-0.42')	Total/NA	Solid	3540C	
240-91496-41	ED-00.55-SL01-(0.5-0.88')	Total/NA	Solid	3540C	
240-91496-42	ED-00.55-SL02-(0-0.42')	Total/NA	Solid	3540C	
240-91496-43	ED-00.55-SL02-(0.5-0.96')	Total/NA	Solid	3540C	
240-91496-44	ED-01.24-SL04-(0-0.84')	Total/NA	Solid	3540C	
240-91496-45	ED-01.24-SL04-(1-1.46')	Total/NA	Solid	3540C	
240-91496-46	ED-01.24-SL05-(0-0.42')	Total/NA	Solid	3540C	
240-91496-47	ED-01.24-SL05-(0-0.42')-DUP	Total/NA	Solid	3540C	
240-91496-48	ED-01.24-SL05-(0.5-1.46')	Total/NA	Solid	3540C	
240-91496-49	ED-01.24-SL06-(0.0-0.84')	Total/NA	Solid	3540C	

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# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## GC Semi VOA (Continued)

### Prep Batch: 314925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-50	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	3540C	
MB 240-314925/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-314925/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-91496-50 MS	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	3540C	
240-91496-50 MSD	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	3540C	

### Analysis Batch: 315017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-2	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	8082A	314904
MB 240-314904/23-A	Method Blank	Total/NA	Solid	8082A	314904
LCS 240-314904/24-A	Lab Control Sample	Total/NA	Solid	8082A	314904
240-91496-2 MS	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	8082A	314904
240-91496-2 MSD	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	8082A	314904

### Analysis Batch: 315194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-11	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	8082A	314916
240-91496-12	ED-00.05-SL01-(1.4-2.3')	Total/NA	Solid	8082A	314916
240-91496-13	ED-00.05-SL01-(2.3-3.3')	Total/NA	Solid	8082A	314916
240-91496-15	ED-00.08-SL03-(2.25-2.75')	Total/NA	Solid	8082A	314916
240-91496-16	ED-00.08-SL03-(2.75-3.5')	Total/NA	Solid	8082A	314916
240-91496-22	ED-00.08-SL05-(0-0.67')	Total/NA	Solid	8082A	314916
240-91496-23	ED-00.08-SL05-(0.67-1.25')	Total/NA	Solid	8082A	314916
240-91496-24	ED-00.08-SL05-(1.25-2.1')	Total/NA	Solid	8082A	314916
240-91496-25	ED-00.08-SL05-(2.1-3')	Total/NA	Solid	8082A	314916
MB 240-314916/23-A	Method Blank	Total/NA	Solid	8082A	314916
LCS 240-314916/24-A	Lab Control Sample	Total/NA	Solid	8082A	314916
240-91496-11 MS	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	8082A	314916
240-91496-11 MSD	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	8082A	314916

### Analysis Batch: 315196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-1	ED-00.00-SL01-(0-0.91')	Total/NA	Solid	8082A	314904
240-91496-3	ED-00.00-SL01-(2.21-3.12')	Total/NA	Solid	8082A	314904
240-91496-5	ED-00.02-SL01-(0-0.63')	Total/NA	Solid	8082A	314904
240-91496-6	ED-00.02-SL01-(0.63-1.76')	Total/NA	Solid	8082A	314904
240-91496-7	ED-00.02-SL01-(1.76-2.18')	Total/NA	Solid	8082A	314904
240-91496-8	ED-00.02-SL01-(2.18-3.43')	Total/NA	Solid	8082A	314904
240-91496-10	ED-00.05-SL01-(0-0.67')	Total/NA	Solid	8082A	314904
240-91496-51	ED-00.8-SL03-(1.25-2.25')	Total/NA	Solid	8082A	314904
MB 240-314904/23-A	Method Blank	Total/NA	Solid	8082A	314904
LCS 240-314904/24-A	Lab Control Sample	Total/NA	Solid	8082A	314904

### Analysis Batch: 315208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-31	ED-00.13-SL01-(0-0.67')	Total/NA	Solid	8082A	314925
240-91496-32	ED-00.13-SL01-(0.67-1.67')	Total/NA	Solid	8082A	314925
240-91496-33	ED-00.13-SL01-(1.6-2.75')	Total/NA	Solid	8082A	314925
240-91496-34	ED-00.13-SL01-(2.75-3.08')	Total/NA	Solid	8082A	314925
240-91496-35	ED-00.17-SL01-(0-0.75')	Total/NA	Solid	8082A	314925
240-91496-37	ED-00.17-SL01-(0.75-1.75')	Total/NA	Solid	8082A	314925

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# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## GC Semi VOA (Continued)

### Analysis Batch: 315208 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-39	ED-00.17-SL01-(2.75-3.75')	Total/NA	Solid	8082A	314925
240-91496-40	ED-00.55-SL01-(0-0.42')	Total/NA	Solid	8082A	314925
240-91496-41	ED-00.55-SL01-(0.5-0.88')	Total/NA	Solid	8082A	314925
240-91496-42	ED-00.55-SL02-(0-0.42')	Total/NA	Solid	8082A	314925
240-91496-43	ED-00.55-SL02-(0.5-0.96')	Total/NA	Solid	8082A	314925
240-91496-44	ED-01.24-SL04-(0-0.84')	Total/NA	Solid	8082A	314925
240-91496-45	ED-01.24-SL04-(1-1.46')	Total/NA	Solid	8082A	314925
240-91496-46	ED-01.24-SL05-(0-0.42')	Total/NA	Solid	8082A	314925
240-91496-47	ED-01.24-SL05-(0-0.42')-DUP	Total/NA	Solid	8082A	314925
240-91496-48	ED-01.24-SL05-(0.5-1.46')	Total/NA	Solid	8082A	314925
240-91496-49	ED-01.24-SL06-(0.0-0.84')	Total/NA	Solid	8082A	314925
240-91496-50	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	8082A	314925
MB 240-314925/23-A	Method Blank	Total/NA	Solid	8082A	314925
LCS 240-314925/24-A	Lab Control Sample	Total/NA	Solid	8082A	314925
240-91496-50 MS	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	8082A	314925
240-91496-50 MSD	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	8082A	314925

### Analysis Batch: 315475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-36	ED-00.17-SL01-(0-0.75')-DUP	Total/NA	Solid	8082A	314925
240-91496-38	ED-00.17-SL01-(1.75-2.75')	Total/NA	Solid	8082A	314925

## General Chemistry

### Analysis Batch: 314935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-1	ED-00.00-SL01-(0-0.91')	Total/NA	Solid	Moisture	
240-91496-2	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	Moisture	
240-91496-3	ED-00.00-SL01-(2.21-3.12')	Total/NA	Solid	Moisture	
240-91496-5	ED-00.02-SL01-(0-0.63')	Total/NA	Solid	Moisture	
240-91496-6	ED-00.02-SL01-(0.63-1.76')	Total/NA	Solid	Moisture	
240-91496-7	ED-00.02-SL01-(1.76-2.18')	Total/NA	Solid	Moisture	
240-91496-8	ED-00.02-SL01-(2.18-3.43')	Total/NA	Solid	Moisture	
240-91496-10	ED-00.05-SL01-(0-0.67')	Total/NA	Solid	Moisture	
240-91496-11	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	Moisture	
240-91496-12	ED-00.05-SL01-(1.4-2.3')	Total/NA	Solid	Moisture	
240-91496-13	ED-00.05-SL01-(2.3-3.3')	Total/NA	Solid	Moisture	
240-91496-15	ED-00.08-SL03-(2.25-2.75')	Total/NA	Solid	Moisture	
240-91496-16	ED-00.08-SL03-(2.75-3.5')	Total/NA	Solid	Moisture	
240-91496-22	ED-00.08-SL05-(0-0.67')	Total/NA	Solid	Moisture	
240-91496-23	ED-00.08-SL05-(0.67-1.25')	Total/NA	Solid	Moisture	
240-91496-24	ED-00.08-SL05-(1.25-2.1')	Total/NA	Solid	Moisture	
240-91496-25	ED-00.08-SL05-(2.1-3')	Total/NA	Solid	Moisture	
240-91496-31	ED-00.13-SL01-(0-0.67')	Total/NA	Solid	Moisture	
240-91496-32	ED-00.13-SL01-(0.67-1.67')	Total/NA	Solid	Moisture	
240-91496-33	ED-00.13-SL01-(1.6-2.75')	Total/NA	Solid	Moisture	
240-91496-34	ED-00.13-SL01-(2.75-3.08')	Total/NA	Solid	Moisture	
240-91496-35	ED-00.17-SL01-(0-0.75')	Total/NA	Solid	Moisture	
240-91496-36	ED-00.17-SL01-(0-0.75')-DUP	Total/NA	Solid	Moisture	
240-91496-37	ED-00.17-SL01-(0.75-1.75')	Total/NA	Solid	Moisture	

TestAmerica Canton

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## General Chemistry (Continued)

### Analysis Batch: 314935 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-38	ED-00.17-SL01-(1.75-2.75')	Total/NA	Solid	Moisture	
240-91496-39	ED-00.17-SL01-(2.75-3.75')	Total/NA	Solid	Moisture	
240-91496-40	ED-00.55-SL01-(0-0.42')	Total/NA	Solid	Moisture	
240-91496-41	ED-00.55-SL01-(0.5-0.88')	Total/NA	Solid	Moisture	
240-91496-42	ED-00.55-SL02-(0-0.42')	Total/NA	Solid	Moisture	
240-91496-43	ED-00.55-SL02-(0.5-0.96')	Total/NA	Solid	Moisture	
240-91496-44	ED-01.24-SL04-(0-0.84')	Total/NA	Solid	Moisture	
240-91496-45	ED-01.24-SL04-(1-1.46')	Total/NA	Solid	Moisture	
240-91496-46	ED-01.24-SL05-(0-0.42')	Total/NA	Solid	Moisture	
240-91496-47	ED-01.24-SL05-(0-0.42')-DUP	Total/NA	Solid	Moisture	
240-91496-48	ED-01.24-SL05-(0.5-1.46')	Total/NA	Solid	Moisture	
240-91496-49	ED-01.24-SL06-(0.0-0.84')	Total/NA	Solid	Moisture	
240-91496-50	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	Moisture	
240-91496-51	ED-00.8-SL03-(1.25-2.25')	Total/NA	Solid	Moisture	
240-91496-2 DU	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	Moisture	
240-91496-11 DU	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	Moisture	
240-91496-35 DU	ED-00.17-SL01-(0-0.75')	Total/NA	Solid	Moisture	
240-91496-44 DU	ED-01.24-SL04-(0-0.84')	Total/NA	Solid	Moisture	



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.00-SL01-(0-0.91')**

**Date Collected: 02/07/18 09:16**

**Date Received: 02/14/18 09:40**

**Lab Sample ID: 240-91496-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.00-SL01-(0-0.91')**

**Date Collected: 02/07/18 09:16**

**Date Received: 02/14/18 09:40**

**Lab Sample ID: 240-91496-1**

**Matrix: Solid**

**Percent Solids: 85.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 16:59	KMG	TAL CAN

**Client Sample ID: ED-00.00-SL01-(0.91-2.21')**

**Date Collected: 02/07/18 09:16**

**Date Received: 02/14/18 09:40**

**Lab Sample ID: 240-91496-2**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.00-SL01-(0.91-2.21')**

**Date Collected: 02/07/18 09:16**

**Date Received: 02/14/18 09:40**

**Lab Sample ID: 240-91496-2**

**Matrix: Solid**

**Percent Solids: 83.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315017	02/16/18 12:58	LSH	TAL CAN

**Client Sample ID: ED-00.00-SL01-(2.21-3.12')**

**Date Collected: 02/07/18 09:16**

**Date Received: 02/14/18 09:40**

**Lab Sample ID: 240-91496-3**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.00-SL01-(2.21-3.12')**

**Date Collected: 02/07/18 09:16**

**Date Received: 02/14/18 09:40**

**Lab Sample ID: 240-91496-3**

**Matrix: Solid**

**Percent Solids: 89.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 17:17	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.02-SL01-(0-0.63')**

**Lab Sample ID: 240-91496-5**

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.02-SL01-(0-0.63')**

**Lab Sample ID: 240-91496-5**

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 17:54	KMG	TAL CAN

**Client Sample ID: ED-00.02-SL01-(0.63-1.76')**

**Lab Sample ID: 240-91496-6**

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.02-SL01-(0.63-1.76')**

**Lab Sample ID: 240-91496-6**

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 18:12	KMG	TAL CAN

**Client Sample ID: ED-00.02-SL01-(1.76-2.18')**

**Lab Sample ID: 240-91496-7**

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.02-SL01-(1.76-2.18')**

**Lab Sample ID: 240-91496-7**

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 18:31	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.02-SL01-(2.18-3.43')**

**Lab Sample ID: 240-91496-8**

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.02-SL01-(2.18-3.43')**

**Lab Sample ID: 240-91496-8**

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 18:49	KMG	TAL CAN

**Client Sample ID: ED-00.05-SL01-(0-0.67')**

**Lab Sample ID: 240-91496-10**

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.05-SL01-(0-0.67')**

**Lab Sample ID: 240-91496-10**

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315196	02/18/18 19:26	KMG	TAL CAN

**Client Sample ID: ED-00.05-SL01-(0.67-1.2')**

**Lab Sample ID: 240-91496-11**

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.05-SL01-(0.67-1.2')**

**Lab Sample ID: 240-91496-11**

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 21:32	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.05-SL01-(1.4-2.3')**

**Lab Sample ID: 240-91496-12**

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.05-SL01-(1.4-2.3')**

**Lab Sample ID: 240-91496-12**

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 15:15	KMG	TAL CAN

**Client Sample ID: ED-00.05-SL01-(2.3-3.3')**

**Lab Sample ID: 240-91496-13**

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.05-SL01-(2.3-3.3')**

**Lab Sample ID: 240-91496-13**

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 15:32	KMG	TAL CAN

**Client Sample ID: ED-00.08-SL03-(2.25-2.75')**

**Lab Sample ID: 240-91496-15**

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.08-SL03-(2.25-2.75')**

**Lab Sample ID: 240-91496-15**

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 16:06	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.08-SL03-(2.75-3.5')**

**Lab Sample ID: 240-91496-16**

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

**Client Sample ID: ED-00.08-SL03-(2.75-3.5')**

**Lab Sample ID: 240-91496-16**

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 16:23	KMG	TAL CAN

**Client Sample ID: ED-00.08-SL05-(0-0.67')**

**Lab Sample ID: 240-91496-22**

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.08-SL05-(0-0.67')**

**Lab Sample ID: 240-91496-22**

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		20	315194	02/18/18 18:06	KMG	TAL CAN

**Client Sample ID: ED-00.08-SL05-(0.67-1.25')**

**Lab Sample ID: 240-91496-23**

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.08-SL05-(0.67-1.25')**

**Lab Sample ID: 240-91496-23**

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		10	315194	02/18/18 18:23	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.08-SL05-(1.25-2.1')**

**Lab Sample ID: 240-91496-24**

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.08-SL05-(1.25-2.1')**

**Lab Sample ID: 240-91496-24**

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 18:40	KMG	TAL CAN

**Client Sample ID: ED-00.08-SL05-(2.1-3')**

**Lab Sample ID: 240-91496-25**

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.08-SL05-(2.1-3')**

**Lab Sample ID: 240-91496-25**

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 18:57	KMG	TAL CAN

**Client Sample ID: ED-00.13-SL01-(0-0.67')**

**Lab Sample ID: 240-91496-31**

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.13-SL01-(0-0.67')**

**Lab Sample ID: 240-91496-31**

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315208	02/19/18 22:10	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.13-SL01-(0.67-1.67')**

**Lab Sample ID: 240-91496-32**

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.13-SL01-(0.67-1.67')**

**Lab Sample ID: 240-91496-32**

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 14:50	KMG	TAL CAN

**Client Sample ID: ED-00.13-SL01-(1.6-2.75')**

**Lab Sample ID: 240-91496-33**

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.13-SL01-(1.6-2.75')**

**Lab Sample ID: 240-91496-33**

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 15:08	KMG	TAL CAN

**Client Sample ID: ED-00.13-SL01-(2.75-3.08')**

**Lab Sample ID: 240-91496-34**

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.13-SL01-(2.75-3.08')**

**Lab Sample ID: 240-91496-34**

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 15:27	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.17-SL01-(0-0.75')**

**Lab Sample ID: 240-91496-35**

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.17-SL01-(0-0.75')**

**Lab Sample ID: 240-91496-35**

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315208	02/19/18 15:45	KMG	TAL CAN

**Client Sample ID: ED-00.17-SL01-(0-0.75')-DUP**

**Lab Sample ID: 240-91496-36**

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.17-SL01-(0-0.75')-DUP**

**Lab Sample ID: 240-91496-36**

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315475	02/20/18 18:57	KMG	TAL CAN

**Client Sample ID: ED-00.17-SL01-(0.75-1.75')**

**Lab Sample ID: 240-91496-37**

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.17-SL01-(0.75-1.75')**

**Lab Sample ID: 240-91496-37**

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		10	315208	02/19/18 16:22	KMG	TAL CAN

TestAmerica Canton



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.17-SL01-(1.75-2.75')**

**Lab Sample ID: 240-91496-38**

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.17-SL01-(1.75-2.75')**

**Lab Sample ID: 240-91496-38**

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		50	315475	02/20/18 19:13	KMG	TAL CAN

**Client Sample ID: ED-00.17-SL01-(2.75-3.75')**

**Lab Sample ID: 240-91496-39**

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.17-SL01-(2.75-3.75')**

**Lab Sample ID: 240-91496-39**

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 16:58	KMG	TAL CAN

**Client Sample ID: ED-00.55-SL01-(0-0.42')**

**Lab Sample ID: 240-91496-40**

Date Collected: 02/07/18 11:30

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.55-SL01-(0-0.42')**

**Lab Sample ID: 240-91496-40**

Date Collected: 02/07/18 11:30

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 17:17	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-00.55-SL01-(0.5-0.88')**

**Lab Sample ID: 240-91496-41**

Date Collected: 02/07/18 11:40

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.55-SL01-(0.5-0.88')**

**Lab Sample ID: 240-91496-41**

Date Collected: 02/07/18 11:40

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 17:35	KMG	TAL CAN

**Client Sample ID: ED-00.55-SL02-(0-0.42')**

**Lab Sample ID: 240-91496-42**

Date Collected: 02/07/18 13:08

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.55-SL02-(0-0.42')**

**Lab Sample ID: 240-91496-42**

Date Collected: 02/07/18 13:08

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 17:53	KMG	TAL CAN

**Client Sample ID: ED-00.55-SL02-(0.5-0.96')**

**Lab Sample ID: 240-91496-43**

Date Collected: 02/07/18 13:16

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

**Client Sample ID: ED-00.55-SL02-(0.5-0.96')**

**Lab Sample ID: 240-91496-43**

Date Collected: 02/07/18 13:16

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 19:07	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-01.24-SL04-(0-0.84')**

**Lab Sample ID: 240-91496-44**

Date Collected: 02/07/18 13:20

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

**Client Sample ID: ED-01.24-SL04-(0-0.84')**

**Lab Sample ID: 240-91496-44**

Date Collected: 02/07/18 13:20

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 19:25	KMG	TAL CAN

**Client Sample ID: ED-01.24-SL04-(1-1.46')**

**Lab Sample ID: 240-91496-45**

Date Collected: 02/07/18 13:30

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

**Client Sample ID: ED-01.24-SL04-(1-1.46')**

**Lab Sample ID: 240-91496-45**

Date Collected: 02/07/18 13:30

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 19:44	KMG	TAL CAN

**Client Sample ID: ED-01.24-SL05-(0-0.42')**

**Lab Sample ID: 240-91496-46**

Date Collected: 02/07/18 13:50

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

**Client Sample ID: ED-01.24-SL05-(0-0.42')**

**Lab Sample ID: 240-91496-46**

Date Collected: 02/07/18 13:50

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 20:02	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-01.24-SL05-(0-0.42')-DUP**

**Lab Sample ID: 240-91496-47**

Date Collected: 02/07/18 13:50

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

**Client Sample ID: ED-01.24-SL05-(0-0.42')-DUP**

**Lab Sample ID: 240-91496-47**

Date Collected: 02/07/18 13:50

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 20:20	KMG	TAL CAN

**Client Sample ID: ED-01.24-SL05-(0.5-1.46')**

**Lab Sample ID: 240-91496-48**

Date Collected: 02/07/18 13:56

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

**Client Sample ID: ED-01.24-SL05-(0.5-1.46')**

**Lab Sample ID: 240-91496-48**

Date Collected: 02/07/18 13:56

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 20:39	KMG	TAL CAN

**Client Sample ID: ED-01.24-SL06-(0.0-0.84')**

**Lab Sample ID: 240-91496-49**

Date Collected: 02/07/18 14:10

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

**Client Sample ID: ED-01.24-SL06-(0.0-0.84')**

**Lab Sample ID: 240-91496-49**

Date Collected: 02/07/18 14:10

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 20:57	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

**Client Sample ID: ED-01.24-SL06-(1-1.96')**

**Lab Sample ID: 240-91496-50**

**Date Collected: 02/07/18 14:18**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

**Client Sample ID: ED-01.24-SL06-(1-1.96')**

**Lab Sample ID: 240-91496-50**

**Date Collected: 02/07/18 14:18**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 21:15	KMG	TAL CAN

**Client Sample ID: ED-00.8-SL03-(1.25-2.25')**

**Lab Sample ID: 240-91496-51**

**Date Collected: 02/07/18 10:11**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

**Client Sample ID: ED-00.8-SL03-(1.25-2.25')**

**Lab Sample ID: 240-91496-51**

**Date Collected: 02/07/18 10:11**

**Matrix: Solid**

**Date Received: 02/14/18 09:40**

**Percent Solids: 85.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315196	02/18/18 15:46	KMG	TAL CAN

**Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

## Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18 *
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18 *
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18 *
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18 *
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

**Chain of Custody Record**

TestAmerica Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

**Client Information**  
 Client Contact: Matt Brazzile  
 Phone: 865-977-9997  
 E-Mail: dominic.nestlasie@lestesting.com  
 Lab P/N: Nestlasie, Dominic J  
 Carrier Tracking No(s):  
 Page 1 of 5  
 Job #:

**Company**  
 Civil & Environmental Consultants Inc  
 Address: 2704 Cherokee Farms Way, Suite 101  
 City: Knoxville  
 State, Zip: TN, 37920  
 Phone: 865-399-1782  
 Email: mbrazzile@cecinc.com  
 Project Name: Arconic, Inc. - Elliott Ditch  
 Site: Elliott Ditch  
 Due Date Requested:  
 TAT Requested (days): Standard  
 PO #:  
 WO #: 172-367.0006  
 Project #: 172-367.0006  
 SSO#:

**Preservation Codes:**  
 A - HCL  
 B - NaOH  
 C - Zn Acetate  
 D - Nitric Acid  
 E - NaHSO4  
 M - Heurine  
 N - None  
 O - AsNaO2  
 P - Na2O4S  
 Q - Na2SO3  
 R - Na2SO3



Sample Identification	Sample Date	Sample Time	Sample Type (G-Comp, G-grab)	Matrix (Wet, Solid, On-site, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	902A-(MOD) PCBs Aroclors	Total Num	Special Instructions/Note:
ED-00.00-SL01-(0 - 0.91')	2/7/18	09:16	G	S	X	X		1	
ED-00.00-SL01-(0.91 - 2.21')	2/7/18	09:16	G	S	X	X		2	
ED-00.00-SL01-(2.21 - 3.12')	2/7/18	09:16	G	S	X	X		1	
ED-00.00-SL01-(3.12 - 3.44')	2/7/18	09:16	G	S	X	X		1	
ED-00.02-SL01-(0 - 0.63')	2/7/18	09:38	G	S	X	X		1	
ED-00.02-SL01-(0.63 - 1.76')	2/7/18	09:38	G	S	X	X		1	
ED-00.02-SL01-(1.76 - 2.18')	2/7/18	09:38	G	S	X	X		1	
ED-00.02-SL01-(2.18 - 3.43')	2/7/18	09:38	G	S	X	X		1	
ED-00.02-SL01-(3.43 - 4')	2/7/18	09:38	G	S	X	X		1	
ED-00.05-SL01-(0 - 0.67')	2/7/18	10:03	G	S	X	X		1	
ED-00.05-SL01-(0.67 - 1.2')	2/7/18	10:03	G	S	X	X		2	

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  
 Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/OC Requirements:  
 Method of Shipment:  
 Date/Time: 2/14/18 9:40  
 Company: TAC  
 Date/Time:  
 Company:  
 Date/Time:  
 Company:

**Relinquished by:** PUCHAN Muchok  
 Date/Time: 02/13/18 3:30p  
 Company: Company  
**Relinquished by:**  
 Date/Time:  
 Company:  
**Relinquished by:**  
 Date/Time:  
 Company:  
**Custody Seals Intact:** Custody Seal No.:  
 Δ Yes Δ No







**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

**Client Information**  
 Client Contact: **Matt Brazzile**  
 Phone: **865-977-9997**  
 E-Mail: **dominic.nestase@testamericainc.com**  
 Lab PM: **Nestase, Dominic J**  
 Carrier Tracking No(s):  
 Lab #:  
 Page: **3** of **5**  
 Job #:

**Company:** Civil & Environmental Consultants Inc  
**Address:** 2704 Cherokee Farms Way, Suite 101  
**City:** Knoxville  
**State, Zip:** TN, 37920  
**Phone:** 865-399-1782  
**Email:** mbrazzile@cecinc.com  
**Project Name:** Arconic, Inc. - Elliott Ditch  
**Site:** Elliott Ditch  
**Due Date Requested:**  
**TAT Requested (days):** Standard  
**PO #:**  
**WO #:** 172-367.0006  
**Project #:** 172-367.0006  
**SSOW#:**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Waste, Swab, Onsite, BTL, Texas, Awa)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A(MOD) PCBs Analyzers	Total Number of Containers	Special Instructions/Note:
ED-00.08-SL05-(0.67 - 1.25)	2/7/18	10:26	G	S	X	X		1	
ED-00.08-SL05-(1.25 - 2.1')	2/7/18	10:26	G	S	X	X		1	
ED-00.08-SL05-(2.1 - 3')	2/7/18	10:26	G	S	X	X		1	
ED-00.08-SL05-(3 - 4')	2/7/18	10:26	G	S	X	X		1	
ED-00.08-SL05-(4 - 5')	2/7/18	10:30	G	S	X	X		1	
ED-00.08-SL05-(5 - 6')	2/7/18	10:30	G	S	X	X		1	
ED-00.08-SL05-(6 - 7')	2/7/18	10:30	G	S	X	X		1	
ED-00.08-SL05-(7 - 8')	2/7/18	10:30	G	S	X	X		1	
ED-00.13-SL01-(0 - 0.67')	2/7/18	10:33	G	S	X	X		1	
ED-00.13-SL01-(0.67 - 1.67')	2/7/18	10:33	G	S	X	X		1	
ED-00.13-SL01-(1.67 - 2.75')	2/7/18	10:33	G	S	X	X		1	

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/OC Requirements:

**Empty Kit Relinquished by:** \_\_\_\_\_ Date: \_\_\_\_\_  
**Relinquished by:** **Duncan Muckton I** Date/Time: **02/13/18 9:30** Company: \_\_\_\_\_  
**Relinquished by:** \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
**Relinquished by:** \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
**Custody Seals Intact:** \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_  
 Δ Yes Δ No



TestAmerica Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b> Client Contact: Matt Brazzile Phone: 865-377-9997 Email: dominic.nestlasie@testamericainc.com		Lab PM: Nestlasie, Dominic J E-Mail: dominic.nestlasie@testamericainc.com		Carrier Tracking No(s): Job #:		COC No: Page: 4 of 5									
Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farms Way, Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 865-369-1782 Email: mbrazzile@cecinc.com Project Name: Arconic, Inc. - Elliott Ditch Site: Elliott Ditch		Due Date Requested: TAT Requested (days): Standard PO #: WO #: 172-367 0006 Project #: 172-367 0006 SSGWF:		<b>Analysis Requested</b> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 8082A-(MOD) PCBs Aroclors <input checked="" type="checkbox"/>		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amelbor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:									
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (G=Comp, G=grab)		Matrix (Water, Solid, Overstool, BT=Trace, AA=V)		Preservation Code:		Total Number of Containers		Special Instructions/Note:	
ED-00.13-SL01(-2.75 - 3.08')		2/7/18		10:33		G		S		S		1			
ED-00.17-SL01(-0 - 0.75')		2/7/18		10:41		G		S		S		1			
ED-00.17-SL01(-0 - 0.75') - DUP		2/7/18		10:41		G		S		S		1			
ED-00.17-SL01(-0.75 - 1.75')		2/7/18		10:41		G		S		S		1			
ED-00.17-SL01(-1.75 - 2.75')		2/7/18		10:41		G		S		S		1			
ED-00.17-SL01(-2.75 - 3.75')		2/7/18		10:41		G		S		S		1			
ED-00.55-SL01(-0 - 0.42')		2/7/18		11:30		G		S		S		1			
ED-00.55-SL01(-0.5 - 0.88')		2/7/18		11:40		G		S		S		1			
ED-00.55-SL02(-0 - 0.42')		2/7/18		13:08		G		S		S		1			
ED-00.55-SL02(-0.5 - 0.96')		2/7/18		13:16		G		S		S		1			
ED-01.24-SL04(-0 - 0.84')		2/7/18		13:20		G		S		S		1			
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/OC Requirements:		Method of Shipment:									
Relinquished by: <b>Duncan Muchoki</b> Relinquished by:		Date: 02/13/18 3:39P Date/Time:		Date/Time: 2-14-18 Date/Time:		Company: <b>TRAC</b> Company:									
Relinquished by:		Date/Time:		Date/Time:		Company:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Date/Time:		Date/Time:		Company:									

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TestAmerica Canton Sample Receipt Form/Narrative  
Canton Facility

Login #: 91496

Client CIVIL ENVR. CONSULT. Site Name \_\_\_\_\_  
Cooler Received on 2-14-18 Opened on 2-14-18

Cooler unpacked by:

POP

FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

Receipt After-hours: Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

TestAmerica Cooler # \_\_\_\_\_ Foam Box \_\_\_\_\_ Client Cooler \_\_\_\_\_ Box \_\_\_\_\_ Other \_\_\_\_\_  
Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
COOLANT: Wet Ice Blue Ice Dry Ice Water None

- Cooler temperature upon receipt  See Multiple Cooler Form  
 IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C
- Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes  No   
 -Were the seals on the outside of the cooler(s) signed & dated? Yes  No  NA   
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes  No   
 -Were tamper/custody seals intact and uncompromised? Yes  No  NA
- Shippers' packing slip attached to the cooler(s)? Yes  No
- Did custody papers accompany the sample(s)? Yes  No
- Were the custody papers relinquished & signed in the appropriate place? Yes  No
- Was/were the person(s) who collected the samples clearly identified on the COC? Yes  No
- Did all bottles arrive in good condition (Unbroken)? Yes  No
- Could all bottle labels be reconciled with the COC? Yes  No
- Were correct bottle(s) used for the test(s) indicated? Yes  No
- Sufficient quantity received to perform indicated analyses? Yes  No
- Are these work share samples?  
 If yes, Questions 12-16 have been checked at the originating laboratory.
- Were all preserved sample(s) at the correct pH upon receipt? Yes  No  NA  pH Strip Lot# HC730269
- Were VOAs on the COC? Yes  No
- Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes  No  NA
- Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_ Yes  No
- Was a LL Hg or Me Hg trip blank present? Yes  No

Tests that are not checked for pH by Receiving:  
VOAs  
Oil and Grease  
TOC

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_

Concerning \_\_\_\_\_

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

RECEIVED SAMPLE ED-008-SL03-1.25-2.25-2-07-18 @ 1011  
NOT ON COC, WILL LOG LAST

17. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.  
Sample(s) \_\_\_\_\_ were received in a broken container.  
Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-91127-1

Client Project/Site: Arconic, Inc. - Elliott Ditch

For:

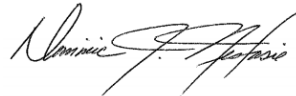
Civil & Environmental Consultants Inc

2704 Cherokee Farm Way

Suite 101

Knoxville, Tennessee 37920

Attn: Matt Bruck



Authorized for release by:

2/13/2018 4:17:03 PM

Dominic Nestasie, Manager of Project Management

(412)963-7058

[dominic.nestasie@testamericainc.com](mailto:dominic.nestasie@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*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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# Definitions/Glossary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

**Job ID: 240-91127-1**

**Laboratory: TestAmerica Canton**

## Narrative

### Job Narrative 240-91127-1

#### Receipt:

The samples were received on 2/3/2018 at 9:30 AM; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at time of receipt was 1.7° C.

#### PCB's:

The following samples ED-00.54-SD03-(0-0.45') (240-91127-1) and ED-00.54-SD03-(0.45-0.9') (240-91127-2) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur:

The following samples ED-00.54-SD03-(0-0.45') (240-91127-1) and ED-00.54-SD03-(0.45-0.9') (240-91127-2) appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration. The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry:

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Method Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

**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 CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



# Sample Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-91127-1	ED-00.54-SD03-(0-0.45')	Solid	01/31/18 09:37	02/03/18 09:30
240-91127-2	ED-00.54-SD03-(0.45-0.9')	Solid	01/31/18 09:37	02/03/18 09:30

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# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

## Client Sample ID: ED-00.54-SD03-(0-0.45')

## Lab Sample ID: 240-91127-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	552		57.5	21.8	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	112	p	57.5	26.4	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	664		57.5	35.6	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.54-SD03-(0.45-0.9')

## Lab Sample ID: 240-91127-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	293		59.3	22.5	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	104	p	59.3	27.3	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	397		59.3	36.7	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

**Client Sample ID: ED-00.54-SD03-(0-0.45')**

**Lab Sample ID: 240-91127-1**

**Date Collected: 01/31/18 09:37**

**Matrix: Solid**

**Date Received: 02/03/18 09:30**

**Percent Solids: 85.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.3	U	57.5	25.3	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
PCB-1221	27.6	U	57.5	27.6	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
PCB-1232	26.4	U	57.5	26.4	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
<b>PCB-1242</b>	<b>552</b>		57.5	21.8	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
PCB-1248	27.6	U	57.5	27.6	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
<b>PCB-1254</b>	<b>112 p</b>		57.5	26.4	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
PCB-1260	25.3	U	57.5	25.3	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
<b>Polychlorinated biphenyls, Total</b>	<b>664</b>		57.5	35.6	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
Aroclor-1262	35.6	U	57.5	35.6	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
Aroclor-1268	26.4	U	57.5	26.4	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	02/05/18 10:08	02/06/18 16:28	1
DCB Decachlorobiphenyl	62	p	10 - 132	02/05/18 10:08	02/06/18 16:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.1</b>		0.1	0.1	%			02/05/18 09:37	1
<b>Percent Moisture</b>	<b>14.9</b>		0.1	0.1	%			02/05/18 09:37	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

**Client Sample ID: ED-00.54-SD03-(0.45-0.9')**

**Lab Sample ID: 240-91127-2**

**Date Collected: 01/31/18 09:37**

**Matrix: Solid**

**Date Received: 02/03/18 09:30**

**Percent Solids: 85.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.1	U	59.3	26.1	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
PCB-1221	28.4	U	59.3	28.4	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
PCB-1232	27.3	U	59.3	27.3	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
<b>PCB-1242</b>	<b>293</b>		59.3	22.5	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
PCB-1248	28.4	U	59.3	28.4	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
<b>PCB-1254</b>	<b>104</b>	<b>p</b>	59.3	27.3	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
PCB-1260	26.1	U	59.3	26.1	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
<b>Polychlorinated biphenyls, Total</b>	<b>397</b>		59.3	36.7	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
Aroclor-1262	36.7	U	59.3	36.7	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
Aroclor-1268	27.3	U	59.3	27.3	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	69		14 - 128	02/05/18 10:08	02/06/18 17:37	1
DCB Decachlorobiphenyl	62	<i>p</i>	10 - 132	02/05/18 10:08	02/06/18 17:37	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.1</b>		0.1	0.1	%			02/05/18 09:37	1
<b>Percent Moisture</b>	<b>14.9</b>		0.1	0.1	%			02/05/18 09:37	1

# Surrogate Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCBP1
		(14-128)	(10-132)
240-91127-1	ED-00.54-SD03-(0-0.45')	79	62 p
240-91127-2	ED-00.54-SD03-(0.45-0.9')	69	62 p
LCS 240-313483/22-A	Lab Control Sample	74	74
MB 240-313483/21-A	Method Blank	62	82

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 240-313483/21-A**  
**Matrix: Solid**  
**Analysis Batch: 313594**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 313483**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22.0	U	50.0	22.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
Aroclor-1262	31.0	U	50.0	31.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
Aroclor-1268	23.0	U	50.0	23.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	02/05/18 10:08	02/06/18 11:42	1
DCB Decachlorobiphenyl	82		10 - 132	02/05/18 10:08	02/06/18 11:42	1

**Lab Sample ID: LCS 240-313483/22-A**  
**Matrix: Solid**  
**Analysis Batch: 313594**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 313483**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1000	627.8		ug/Kg		63	47 - 120
PCB-1260	1000	682.3		ug/Kg		68	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	74		14 - 128
DCB Decachlorobiphenyl	74		10 - 132

## Method: Moisture - Percent Moisture

**Lab Sample ID: 240-91127-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 313473**

**Client Sample ID: ED-00.54-SD03-(0.45-0.9')**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	85.1		85.1		%		0	20
Percent Moisture	14.9		14.9		%		0.2	20

TestAmerica Canton



# QC Association Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

## GC Semi VOA

### Prep Batch: 313483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91127-1	ED-00.54-SD03-(0-0.45')	Total/NA	Solid	3540C	
240-91127-2	ED-00.54-SD03-(0.45-0.9')	Total/NA	Solid	3540C	
MB 240-313483/21-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-313483/22-A	Lab Control Sample	Total/NA	Solid	3540C	

### Analysis Batch: 313594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91127-1	ED-00.54-SD03-(0-0.45')	Total/NA	Solid	8082A	313483
240-91127-2	ED-00.54-SD03-(0.45-0.9')	Total/NA	Solid	8082A	313483
MB 240-313483/21-A	Method Blank	Total/NA	Solid	8082A	313483
LCS 240-313483/22-A	Lab Control Sample	Total/NA	Solid	8082A	313483

## General Chemistry

### Analysis Batch: 313473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91127-1	ED-00.54-SD03-(0-0.45')	Total/NA	Solid	Moisture	
240-91127-2	ED-00.54-SD03-(0.45-0.9')	Total/NA	Solid	Moisture	
240-91127-2 DU	ED-00.54-SD03-(0.45-0.9')	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

**Client Sample ID: ED-00.54-SD03-(0-0.45')**

**Date Collected: 01/31/18 09:37**

**Date Received: 02/03/18 09:30**

**Lab Sample ID: 240-91127-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	313473	02/05/18 09:37	TPH	TAL CAN

**Client Sample ID: ED-00.54-SD03-(0-0.45')**

**Date Collected: 01/31/18 09:37**

**Date Received: 02/03/18 09:30**

**Lab Sample ID: 240-91127-1**

**Matrix: Solid**

**Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			313483	02/05/18 10:08	AMT	TAL CAN
Total/NA	Analysis	8082A		1	313594	02/06/18 16:28	KMG	TAL CAN

**Client Sample ID: ED-00.54-SD03-(0.45-0.9')**

**Date Collected: 01/31/18 09:37**

**Date Received: 02/03/18 09:30**

**Lab Sample ID: 240-91127-2**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	313473	02/05/18 09:37	TPH	TAL CAN

**Client Sample ID: ED-00.54-SD03-(0.45-0.9')**

**Date Collected: 01/31/18 09:37**

**Date Received: 02/03/18 09:30**

**Lab Sample ID: 240-91127-2**

**Matrix: Solid**

**Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			313483	02/05/18 10:08	AMT	TAL CAN
Total/NA	Analysis	8082A		1	313594	02/06/18 17:37	KMG	TAL CAN

**Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

## Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18 *
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18 *
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18 *
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18 *
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

2.0/K1.7

**TestAmerica Canton**  
 4101 Shuffel Street NW  
 North Canton, OH 44720  
 Phone (330) 497-93396 Fax (330) 497-0772

**Chain of Custody Record**


**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b>		Lab PM: Nestlasie, Dominic J		Carrier Tracking No(s)	
Company: Civil & Environmental Consultants Inc		E-Mail: dominic.nestlasie@testamericanc.com		COC No:	
Address: 2704 Cherokee Farms Way, Suite 101		Phone: 865-977-9997		Page: 1 of 1	
City: Knoxville		State, Zip: TN, 37920		Job #:	
Phone: 865-399-1782		PO #:		Analysis Requested	
Email: mbrazill@cecinc.com		WO #:		Preservation Codes:	
Project Name: Arconic, Inc. - Elliott Ditch		Project #: 172-367,0006		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Site: Elliott Ditch		SSON#:		Other:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Inorganic based, Organic based)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A-(MOD) PCBs Andors	Total Number of containers	Special Instructions/Note:
ED-00 54-SD03-(0 - 0.45')	1/31/18	09:37	G	S	X	X		1	
ED-00 54-SD03-(0.45 -0.9')	1/31/18	09:37	G	S	X	X		1	



240-91127 Chain of Custody

<b>Possible Hazard Identification</b>		Date: 02/02/18		Company: CEC	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Radiological
Deliverable Requested: I, II, III, IV, Other (specify)		Date/Time: 02/02/18 3:00 pm	Date/Time: 2/3/18 9:30	Company: JAC	
Empty Kit Relinquished by:		Date/Time:	Date/Time:	Company:	
Relinquished by: DUNCAN MUCHOKI		Date/Time:	Date/Time:	Company:	
Relinquished by:		Date/Time:	Date/Time:	Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:			



**TestAmerica Canton Sample Receipt Form/Narrative**  
**Canton Facility**

Login # : 91127


Client CEC Site Name \_\_\_\_\_  
 Cooler Received on 2/3/18 Opened on 2/3/18  
 FedEx: 1<sup>st</sup> Grd  Exp  UPS  FAS  Clipper  Client Drop Off  TestAmerica Courier  Other \_\_\_\_\_

Cooler unpacked by:  
DSO

Receipt After-hours: Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

TestAmerica Cooler # \_\_\_\_\_ Foam Box  Client Cooler  Box  Other \_\_\_\_\_  
 Packing material used: Bubble Wrap  Foam  Plastic Bag  None  Other \_\_\_\_\_  
 COOLANT: Wet Ice  Blue Ice  Dry Ice  Water  None

1. Cooler temperature upon receipt  See Multiple Cooler Form  
 IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. 20 °C Corrected Cooler Temp. 1.7 °C  
 IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1  Yes  No  
 -Were the seals on the outside of the cooler(s) signed & dated?  Yes  No  NA  
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?  Yes  No  NA  
 -Were tamper/custody seals intact and uncompromised?  Yes  No  NA
3. Shippers' packing slip attached to the cooler(s)?  Yes  No  
 4. Did custody papers accompany the sample(s)?  Yes  No  
 5. Were the custody papers relinquished & signed in the appropriate place?  Yes  No  
 6. Was/were the person(s) who collected the samples clearly identified on the COC?  Yes  No  
 7. Did all bottles arrive in good condition (Unbroken)?  Yes  No  
 8. Could all bottle labels be reconciled with the COC?  Yes  No  
 9. Were correct bottle(s) used for the test(s) indicated?  Yes  No  
 10. Sufficient quantity received to perform indicated analyses?  Yes  No  
 11. Are these work share samples?  
 If yes, Questions 12-16 have been checked at the originating laboratory.  
 12. Were all preserved sample(s) at the correct pH upon receipt?  Yes  No  N/A pH Strip Lot# HC730269  
 13. Were VOAs on the COC?  Yes  No  N/A  
 14. Were air bubbles >6 mm in any VOA vials?  Yes  No  N/A  Larger than this.  
 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_  Yes  No  N/A  
 16. Was a LL Hg or Me Hg trip blank present?  Yes  No

Tests that are not checked for pH by Receiving:  
 VOAs  
 Oil and Grease  
 TOC

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_  
 Concerning \_\_\_\_\_

**16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES** Samples processed by: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**17. SAMPLE CONDITION**  
 Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.  
 Sample(s) \_\_\_\_\_ were received in a broken container.  
 Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

**18. SAMPLE PRESERVATION**  
 Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
 Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-97885-1

Client Project/Site: Arconic, Inc. - Elliott Ditch

For:

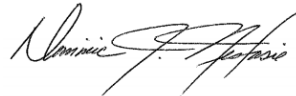
Civil & Environmental Consultants Inc

2704 Cherokee Farm Way

Suite 101

Knoxville, Tennessee 37920

Attn: Matt Bruck



Authorized for release by:

7/12/2018 10:07:33 AM

Dominic Nestasie, Manager of Project Management

(412)963-7058

[dominic.nestasie@testamericainc.com](mailto:dominic.nestasie@testamericainc.com)

### LINKS

Review your project  
results through

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Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*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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# Definitions/Glossary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

### General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Job ID: 240-97885-1**

**Laboratory: TestAmerica Canton**

## Narrative

### Job Narrative 240-97885-1

#### Receipt:

The samples were received on 6/27/2018 at 9:50 AM; the samples arrived in good condition, properly preserved on ice. The temperatures of the 2 coolers at time of receipt were 11.2° C and 13.4° C.

#### PCB's:

The following samples (240-97589-C-42-B MS) and (240-97589-C-42-C MSD), were diluted due to the nature of the sample matrix. Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

The following samples ED-00.19-SL01-0.0-0.8 (240-97885-36), (240-97589-C-42-B MS) and (240-97589-C-42-C MSD) were diluted due to abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The following samples ED-00.19-SL01-0.0-0.8 (240-97885-36), ED-00.21-SL01-0.0-1.0 (240-97885-41), (LCS 240-334947/24-A) and (MB 240-334947/23-A) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following samples ED-00.51-SL06-1.0-2.0 (240-97885-2), ED-01.14-SL01-0.5-1.0 (240-97885-4), ED-01.14-SL01-1.0-1.5 (240-97885-5), ED-00.31-SL01-0.0-1.0 (240-97885-89), ED-00.23-SL01-0.0-0.7 (240-97885-99) and ED-00.29-SL01-0.0-0.7 (240-97885-103) were diluted due to abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The following samples ED-00.51-SL06-1.0-2.0 (240-97885-2), ED-01.14-SL01-0.5-1.0 (240-97885-4), ED-01.14-SL01-1.0-1.5 (240-97885-5), ED-00.31-SL01-0.0-1.0 (240-97885-89), ED-00.23-SL01-0.0-0.7 (240-97885-99) and ED-00.29-SL01-0.0-0.7 (240-97885-103) were diluted to bring the concentration of target analytes within the calibration range: Elevated reporting limits (RLs) are provided.

The following samples ED-00.51-SL06-1.0-2.0 (240-97885-2), ED-01.14-SL01-0.5-1.0 (240-97885-4), ED-01.14-SL01-1.0-1.5 (240-97885-5), ED-01.14-SL05-0.0-0.5 (240-97885-8), ED-01.14-SL05-0.5-1.0 (240-97885-9), ED-01.14-SL06-0.0-0.5 (240-97885-85), ED-01.14-SL06-0.5-1.0 (240-97885-86), ED-01.14-SL06-1.0-1.5 (240-97885-87), ED-00.31-SL01-0.0-1.0 (240-97885-89), ED-00.31-SL01-1.0-2.0 (240-97885-90), ED-00.33-SL01-0.0-0.7 (240-97885-94), ED-00.33-SL01-0.7-1.6 (240-97885-95), ED-00.23-SL01-0.0-0.7 (240-97885-99), ED-00.29-SL01-0.7-1.7 (240-97885-104) and ED-00.29-SL01-1.7-2.7-FD (240-97885-105) appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

The following samples ED-00.51-SL06-1.0-2.0 (240-97885-2), ED-01.14-SL01-0.5-1.0 (240-97885-4), ED-01.14-SL01-1.0-1.5 (240-97885-5), ED-00.31-SL01-0.0-1.0 (240-97885-89), ED-00.33-SL01-0.0-0.7 (240-97885-94) and ED-00.33-SL01-0.7-1.6 (240-97885-95) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The surrogate recovery for the following samples ED-00.17-SL02-1.8-2.8 MSD (240-97885-25[MSD]), ED-00.29-SL01-1.7-2.7 (240-97885-74), ED-00.44-SL01-0.5-1.0 (240-97885-78), ED-00.44-SL01-1.0-1.5 (240-97885-79), ED-00.44-SL01-1.5-1.8 (240-97885-80) and ED-00.44-SL01-1.8-2.0 (240-97885-81) were outside control limits. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The following sample ED-00.44-SL01-0.0-0.5 (240-97885-77), required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following samples ED-00.19-SL01-1.8-2.3 (240-97885-34), ED-00.19-SL01-1.8-2.3 (240-97885-70), ED-00.29-SL01-1.7-2.7

# Case Narrative

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Job ID: 240-97885-1 (Continued)

### Laboratory: TestAmerica Canton (Continued)

(240-97885-74), ED-00.44-SL01-0.0-0.5 (240-97885-77), ED-00.44-SL01-0.5-1.0 (240-97885-78), ED-00.44-SL01-1.0-1.5 (240-97885-79), ED-00.44-SL01-1.5-1.8 (240-97885-80) and ED-00.44-SL01-1.8-2.0 (240-97885-81) appear to contain polychlorinated biphenyls (PCBs); however, the Aroclor patterns of the PCBs in the samples are altered and do not directly match the laboratory's individual Aroclor standards used for instrument calibration. These altered PCB patterns may be caused by weathering, other environmental processes, and/or contributions from the presence of multiple Aroclors resulting in overlapping PCB patterns. The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

The following samples ED-00.19-SL01-1.8-2.3 MS (240-97885-34[MS]) and ED-00.19-SL01-1.8-2.3 MSD (240-97885-34[MSD]) were diluted due to the abundance of target analytes. Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

The following samples ED-00.17-SL02-0.0-0.8-FD (240-97885-22) and ED-00.17-SL02-0.0-0.8 (240-97885-23) were diluted due to abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The following samples ED-00.00-SL03-0.9-1.7 (240-97885-15), ED-00.00-SL03-0.9-1.7 MS (240-97885-15[MS]), ED-00.00-SL03-0.9-1.7 MSD (240-97885-15[MSD]), ED-00.00-SL04-1.8-2.7 (240-97885-20), ED-01.14-SL04-1.5-1.8 (240-97885-57), ED-01.14-SL04-1.0-1.5 (240-97885-58), ED-01.14-SL04-0.0-0.5 (240-97885-59) and ED-00.00-SL03-0.9-1.7 (240-97885-61) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following sample ED-00.00-SL03-0.0-0.9 (240-97885-16) was diluted due to abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The following samples ED-00.00-SL03-0.9-1.7 (240-97885-15), ED-00.00-SL04-0.0-0.9 (240-97885-17), ED-00.00-SL04-0.9-1.8 (240-97885-18), ED-00.00-SL04-0.0-0.9-FD (240-97885-19), ED-00.17-SL02-0.0-0.8-FD (240-97885-22), ED-00.17-SL02-0.0-0.8 (240-97885-23), ED-00.17-SL02-0.8-1.8 (240-97885-24), ED-00.41-SL01-0.0-0.5 (240-97885-27), ED-00.41-SL01-1.0-1.5 (240-97885-28), ED-00.41-SL01-1.5-2.0 (240-97885-29), ED-00.41-SL01-1.5-2.0-FD (240-97885-30), ED-01.14-SL04-1.5-1.8 (240-97885-57), ED-01.14-SL04-1.0-1.5 (240-97885-58), ED-01.14-SL04-0.0-0.5 (240-97885-59), ED-00.00-SL03-0.9-1.7 (240-97885-61), ED-00.36-SL01-0.0-0.4 (240-97885-62), ED-00.41-SL01-0.5-1.0 (240-97885-66) and ED-00.36-SL01-1.5-2.0-FD (240-97885-68) appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration. The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

The following sample ED-00.00-SL03-0.0-0.9 (240-97885-16) was diluted to bring the concentration of target analytes within the calibration range. Elevated reporting limits (RLs) are provided.

The following samples ED-01.14-SL05-1.0-1.5 (240-97885-11) and ED-00.00-SL03-0.0-0.9 (240-97885-16) appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration. The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

The following samples ED-00.00-SL03-1.7-2.5 (240-97885-14) and ED-00.00-SL03-0.0-0.9 (240-97885-16) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following sample ED-00.27-SL01-0.0-1.0 (240-97885-46) was diluted due to abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The following samples ED-01.14-SL04-0.5-1.0 (240-97885-56), (240-98076-G-1-G), (240-98076-G-1-H MS) and (240-98076-G-1-I MSD) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry:

# Case Narrative

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

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## Job ID: 240-97885-1 (Continued)

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### Laboratory: TestAmerica Canton (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep:

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Method Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
3540C	Soxhlet Extraction	SW846	TAL CAN

**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 CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



# Sample Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-97885-2	ED-00.51-SL06-1.0-2.0	Solid	06/16/18 16:40	06/27/18 09:50
240-97885-4	ED-01.14-SL01-0.5-1.0	Solid	06/15/18 18:12	06/27/18 09:50
240-97885-5	ED-01.14-SL01-1.0-1.5	Solid	06/15/18 18:17	06/27/18 09:50
240-97885-8	ED-01.14-SL05-0.0-0.5	Solid	06/15/18 18:26	06/27/18 09:50
240-97885-9	ED-01.14-SL05-0.5-1.0	Solid	06/15/18 18:27	06/27/18 09:50
240-97885-11	ED-01.14-SL05-1.0-1.5	Solid	06/15/18 18:30	06/27/18 09:50
240-97885-14	ED-00.00-SL03-1.7-2.5	Solid	06/14/18 15:52	06/27/18 09:50
240-97885-15	ED-00.00-SL03-0.9-1.7	Solid	06/14/18 15:50	06/27/18 09:50
240-97885-16	ED-00.00-SL03-0.0-0.9	Solid	06/14/18 15:47	06/27/18 09:50
240-97885-17	ED-00.00-SL04-0.0-0.9	Solid	06/14/18 16:10	06/27/18 09:50
240-97885-18	ED-00.00-SL04-0.9-1.8	Solid	06/14/18 16:15	06/27/18 09:50
240-97885-19	ED-00.00-SL04-0.0-0.9-FD	Solid	06/14/18 16:10	06/27/18 09:50
240-97885-20	ED-00.00-SL04-1.8-2.7	Solid	06/14/18 16:19	06/27/18 09:50
240-97885-22	ED-00.17-SL02-0.0-0.8-FD	Solid	06/14/18 15:20	06/27/18 09:50
240-97885-23	ED-00.17-SL02-0.0-0.8	Solid	06/14/18 15:20	06/27/18 09:50
240-97885-24	ED-00.17-SL02-0.8-1.8	Solid	06/14/18 15:22	06/27/18 09:50
240-97885-25	ED-00.17-SL02-1.8-2.8	Solid	06/14/18 15:24	06/27/18 09:50
240-97885-27	ED-00.41-SL01-0.0-0.5	Solid	06/14/18 10:03	06/27/18 09:50
240-97885-28	ED-00.41-SL01-1.0-1.5	Solid	06/14/18 10:06	06/27/18 09:50
240-97885-29	ED-00.41-SL01-1.5-2.0	Solid	06/14/18 10:08	06/27/18 09:50
240-97885-30	ED-00.41-SL01-1.5-2.0-FD	Solid	06/14/18 10:08	06/27/18 09:50
240-97885-34	ED-00.19-SL01-1.8-2.3	Solid	06/14/18 14:48	06/27/18 09:50
240-97885-35	ED-00.19-SL01-1.5-1.8	Solid	06/14/18 14:46	06/27/18 09:50
240-97885-36	ED-00.19-SL01-0.0-0.8	Solid	06/14/18 04:40	06/27/18 09:50
240-97885-37	ED-00.19-SL01-0.8-1.5	Solid	06/14/18 14:42	06/27/18 09:50
240-97885-38	ED-00.19-SL01-0.8-1.5-FD	Solid	06/14/18 14:42	06/27/18 09:50
240-97885-41	ED-00.21-SL01-0.0-1.0	Solid	06/14/18 14:56	06/27/18 09:50
240-97885-42	ED-00.21-SL01-1.0-2.0	Solid	06/14/18 14:58	06/27/18 09:50
240-97885-43	ED-00.21-SL01-1.0-2.0-FD	Solid	06/14/18 14:58	06/27/18 09:50
240-97885-46	ED-00.27-SL01-0.0-1.0	Solid	06/14/18 13:39	06/27/18 09:50
240-97885-47	ED-00.27-SL01-1.0-1.9	Solid	06/14/18 13:41	06/27/18 09:50
240-97885-48	ED-00.27-SL01-1.9-2.8	Solid	06/14/18 13:43	06/27/18 09:50
240-97885-50	ED-00.23-SL01-0.7-1.2	Solid	06/14/18 12:55	06/27/18 09:50
240-97885-51	ED-00.23-SL01-0.7-1.2-FD	Solid	06/14/18 12:55	06/27/18 09:50
240-97885-56	ED-01.14-SL04-0.5-1.0	Solid	06/15/18 18:33	06/27/18 09:50
240-97885-57	ED-01.14-SL04-1.5-1.8	Solid	06/15/18 18:40	06/27/18 09:50
240-97885-58	ED-01.14-SL04-1.0-1.5	Solid	06/15/18 18:35	06/27/18 09:50
240-97885-59	ED-01.14-SL04-0.0-0.5	Solid	06/15/18 18:30	06/27/18 09:50
240-97885-60	ED-00.36-SL01-0.4-1.0	Solid	06/14/18 10:58	06/27/18 09:50
240-97885-61	ED-00.00-SL03-0.9-1.7	Solid	06/14/18 15:50	06/27/18 09:50
240-97885-62	ED-00.36-SL01-0.0-0.4	Solid	06/14/18 10:50	06/27/18 09:50
240-97885-65	ED-00.36-SL01-1.5-2.0	Solid	06/14/18 10:50	06/27/18 09:50
240-97885-66	ED-00.41-SL01-0.5-1.0	Solid	06/14/18 10:05	06/27/18 09:50
240-97885-68	ED-00.36-SL01-1.5-2.0-FD	Solid	06/14/18 10:50	06/27/18 09:50
240-97885-69	ED-00.36-SL01-0.4-1.0	Solid	06/14/18 10:55	06/27/18 09:50
240-97885-70	ED-00.19-SL01-1.8-2.3	Solid	06/14/18 14:48	06/27/18 09:50
240-97885-74	ED-00.29-SL01-1.7-2.7	Solid	06/14/18 13:36	06/27/18 09:50
240-97885-77	ED-00.44-SL01-0.0-0.5	Solid	06/14/18 11:20	06/27/18 09:50
240-97885-78	ED-00.44-SL01-0.5-1.0	Solid	06/14/18 11:22	06/27/18 09:50
240-97885-79	ED-00.44-SL01-1.0-1.5	Solid	06/14/18 11:27	06/27/18 09:50
240-97885-80	ED-00.44-SL01-1.5-1.8	Solid	06/14/18 11:34	06/27/18 09:50
240-97885-81	ED-00.44-SL01-1.8-2.0	Solid	06/14/18 11:40	06/27/18 09:50
240-97885-85	ED-01.14-SL06-0.0-0.5	Solid	06/13/18 13:56	06/27/18 09:50

TestAmerica Canton

# Sample Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-97885-86	ED-01.14-SL06-0.5-1.0	Solid	06/13/18 13:58	06/27/18 09:50
240-97885-87	ED-01.14-SL06-1.0-1.5	Solid	06/13/18 14:12	06/27/18 09:50
240-97885-89	ED-00.31-SL01-0.0-1.0	Solid	06/14/18 12:13	06/27/18 09:50
240-97885-90	ED-00.31-SL01-1.0-2.0	Solid	06/14/18 12:15	06/27/18 09:50
240-97885-94	ED-00.33-SL01-0.0-0.7	Solid	06/14/18 12:20	06/27/18 09:50
240-97885-95	ED-00.33-SL01-0.7-1.6	Solid	06/14/18 12:25	06/27/18 09:50
240-97885-96	ED-00.33-SL01-1.6-2.3	Solid	06/14/18 12:27	06/27/18 09:50
240-97885-99	ED-00.23-SL01-0.0-0.7	Solid	06/14/18 12:51	06/27/18 09:50
240-97885-100	ED-00.23-SL01-1.2-2.0	Solid	06/14/18 12:56	06/27/18 09:50
240-97885-103	ED-00.29-SL01-0.0-0.7	Solid	06/14/18 13:32	06/27/18 09:50
240-97885-104	ED-00.29-SL01-0.7-1.7	Solid	06/14/18 13:34	06/27/18 09:50
240-97885-105	ED-00.29-SL01-1.7-2.7-FD	Solid	06/14/18 13:36	06/27/18 09:50
240-97885-106	ED-00.36-SL01-1.0-1.5	Solid	06/14/18 10:51	06/27/18 09:50

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Client Sample ID: ED-00.51-SL06-1.0-2.0

## Lab Sample ID: 240-97885-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	2790		292	140	ug/Kg	5	☒	8082A	Total/NA
PCB-1260	422		292	128	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	3210		292	181	ug/Kg	5	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL01-0.5-1.0

## Lab Sample ID: 240-97885-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	11400		604	290	ug/Kg	10	☒	8082A	Total/NA
PCB-1260	1300		604	266	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	12700		604	374	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL01-1.0-1.5

## Lab Sample ID: 240-97885-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	6330		624	299	ug/Kg	10	☒	8082A	Total/NA
PCB-1260	943		624	274	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	7270		624	387	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL05-0.0-0.5

## Lab Sample ID: 240-97885-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	210		62.8	30.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	210		62.8	39.0	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL05-0.5-1.0

## Lab Sample ID: 240-97885-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	230		60.3	29.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	230		60.3	37.4	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL05-1.0-1.5

## Lab Sample ID: 240-97885-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	184		62.5	30.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	184		62.5	38.7	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.00-SL03-1.7-2.5

## Lab Sample ID: 240-97885-14

No Detections.

## Client Sample ID: ED-00.00-SL03-0.9-1.7

## Lab Sample ID: 240-97885-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	73.6		55.4	26.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	73.6		55.4	34.4	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.00-SL03-0.0-0.9

## Lab Sample ID: 240-97885-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1260		327	157	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1260		327	203	ug/Kg	5	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Client Sample ID: ED-00.00-SL04-0.0-0.9

## Lab Sample ID: 240-97885-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	35.3	J	60.1	28.9	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.00-SL04-0.9-1.8

## Lab Sample ID: 240-97885-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	34.6	J	59.1	28.4	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.00-SL04-0.0-0.9-FD

## Lab Sample ID: 240-97885-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	29.2	J	55.8	26.8	ug/Kg	1	☼	8082A	Total/NA

## Client Sample ID: ED-00.00-SL04-1.8-2.7

## Lab Sample ID: 240-97885-20

No Detections.

## Client Sample ID: ED-00.17-SL02-0.0-0.8-FD

## Lab Sample ID: 240-97885-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	60400		3550	1710	ug/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	60400		3550	2200	ug/Kg	50	☼	8082A	Total/NA

## Client Sample ID: ED-00.17-SL02-0.0-0.8

## Lab Sample ID: 240-97885-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	94200		5890	2820	ug/Kg	100	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	94200		5890	3650	ug/Kg	100	☼	8082A	Total/NA

## Client Sample ID: ED-00.17-SL02-0.8-1.8

## Lab Sample ID: 240-97885-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	3940		289	139	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	3940		289	179	ug/Kg	5	☼	8082A	Total/NA

## Client Sample ID: ED-00.17-SL02-1.8-2.8

## Lab Sample ID: 240-97885-25

No Detections.

## Client Sample ID: ED-00.41-SL01-0.0-0.5

## Lab Sample ID: 240-97885-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	19200		1340	644	ug/Kg	20	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	19200		1340	831	ug/Kg	20	☼	8082A	Total/NA

## Client Sample ID: ED-00.41-SL01-1.0-1.5

## Lab Sample ID: 240-97885-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	454		58.7	28.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	454		58.7	36.4	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton



# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Client Sample ID: ED-00.41-SL01-1.5-2.0

## Lab Sample ID: 240-97885-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	39.2	J p	62.8	30.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	39.2	J	62.8	38.9	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.41-SL01-1.5-2.0-FD

## Lab Sample ID: 240-97885-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	41.0	J	60.5	29.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	41.0	J	60.5	37.5	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.19-SL01-1.8-2.3

## Lab Sample ID: 240-97885-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1690		281	135	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1690		281	174	ug/Kg	5	☒	8082A	Total/NA

## Client Sample ID: ED-00.19-SL01-1.5-1.8

## Lab Sample ID: 240-97885-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1580		310	149	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1580		310	193	ug/Kg	5	☒	8082A	Total/NA

## Client Sample ID: ED-00.19-SL01-0.0-0.8

## Lab Sample ID: 240-97885-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1500		286	137	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1500		286	177	ug/Kg	5	☒	8082A	Total/NA

## Client Sample ID: ED-00.19-SL01-0.8-1.5

## Lab Sample ID: 240-97885-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	182		61.4	29.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	182		61.4	38.1	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.19-SL01-0.8-1.5-FD

## Lab Sample ID: 240-97885-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	170		60.8	29.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	170		60.8	37.7	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.21-SL01-0.0-1.0

## Lab Sample ID: 240-97885-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	826		61.7	29.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	826		61.7	38.3	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.21-SL01-1.0-2.0

## Lab Sample ID: 240-97885-42

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Client Sample ID: ED-00.21-SL01-1.0-2.0-FD

Lab Sample ID: 240-97885-43

No Detections.

## Client Sample ID: ED-00.27-SL01-0.0-1.0

Lab Sample ID: 240-97885-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	25500		3640	1750	ug/Kg	50	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	25500		3640	2260	ug/Kg	50	☒	8082A	Total/NA

## Client Sample ID: ED-00.27-SL01-1.0-1.9

Lab Sample ID: 240-97885-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	127		62.7	30.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	127		62.7	38.9	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.27-SL01-1.9-2.8

Lab Sample ID: 240-97885-48

No Detections.

## Client Sample ID: ED-00.23-SL01-0.7-1.2

Lab Sample ID: 240-97885-50

No Detections.

## Client Sample ID: ED-00.23-SL01-0.7-1.2-FD

Lab Sample ID: 240-97885-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	32.0	J	58.5	28.1	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL04-0.5-1.0

Lab Sample ID: 240-97885-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	729	p	62.0	29.8	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	729		62.0	38.5	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL04-1.5-1.8

Lab Sample ID: 240-97885-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1080		63.8	30.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1080		63.8	39.5	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL04-1.0-1.5

Lab Sample ID: 240-97885-58

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	768		60.7	29.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	768		60.7	37.6	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL04-0.0-0.5

Lab Sample ID: 240-97885-59

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	2460		331	159	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	2460		331	205	ug/Kg	5	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.36-SL01-0.4-1.0**

**Lab Sample ID: 240-97885-60**

No Detections.

**Client Sample ID: ED-00.00-SL03-0.9-1.7**

**Lab Sample ID: 240-97885-61**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	141		57.8	27.8	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	141		57.8	35.8	ug/Kg	1	☒	8082A	Total/NA

**Client Sample ID: ED-00.36-SL01-0.0-0.4**

**Lab Sample ID: 240-97885-62**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	368		52.1	25.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	368		52.1	32.3	ug/Kg	1	☒	8082A	Total/NA

**Client Sample ID: ED-00.36-SL01-1.5-2.0**

**Lab Sample ID: 240-97885-65**

No Detections.

**Client Sample ID: ED-00.41-SL01-0.5-1.0**

**Lab Sample ID: 240-97885-66**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1980		116	55.5	ug/Kg	2	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1980		116	71.7	ug/Kg	2	☒	8082A	Total/NA

**Client Sample ID: ED-00.36-SL01-1.5-2.0-FD**

**Lab Sample ID: 240-97885-68**

No Detections.

**Client Sample ID: ED-00.36-SL01-0.4-1.0**

**Lab Sample ID: 240-97885-69**

No Detections.

**Client Sample ID: ED-00.19-SL01-1.8-2.3**

**Lab Sample ID: 240-97885-70**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1780		116	55.7	ug/Kg	2	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1780		116	71.9	ug/Kg	2	☒	8082A	Total/NA

**Client Sample ID: ED-00.29-SL01-1.7-2.7**

**Lab Sample ID: 240-97885-74**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	66.8	J	68.4	32.8	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	66.8	J	68.4	42.4	ug/Kg	1	☒	8082A	Total/NA

**Client Sample ID: ED-00.44-SL01-0.0-0.5**

**Lab Sample ID: 240-97885-77**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	340		53.4	25.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	340		53.4	33.1	ug/Kg	1	☒	8082A	Total/NA

**Client Sample ID: ED-00.44-SL01-0.5-1.0**

**Lab Sample ID: 240-97885-78**

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Client Sample ID: ED-00.44-SL01-0.5-1.0 (Continued)

## Lab Sample ID: 240-97885-78

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	405		53.1	25.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	405		53.1	32.9	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.44-SL01-1.0-1.5

## Lab Sample ID: 240-97885-79

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	448		54.8	26.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	448		54.8	34.0	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.44-SL01-1.5-1.8

## Lab Sample ID: 240-97885-80

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	30.2	J p	54.4	26.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	94.4		54.4	33.7	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.44-SL01-1.8-2.0

## Lab Sample ID: 240-97885-81

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	142	p	58.1	27.9	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	287		58.1	36.1	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL06-0.0-0.5

## Lab Sample ID: 240-97885-85

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1180		65.8	31.6	ug/Kg	1	☒	8082A	Total/NA
PCB-1260	387		65.8	29.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1570		65.8	40.8	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL06-0.5-1.0

## Lab Sample ID: 240-97885-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	319		62.1	29.8	ug/Kg	1	☒	8082A	Total/NA
PCB-1260	113		62.1	27.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	432		62.1	38.5	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-01.14-SL06-1.0-1.5

## Lab Sample ID: 240-97885-87

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	221		64.2	30.8	ug/Kg	1	☒	8082A	Total/NA
PCB-1260	61.5	J	64.2	28.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	283		64.2	39.8	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.31-SL01-0.0-1.0

## Lab Sample ID: 240-97885-89

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	22400		1300	624	ug/Kg	20	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	22400		1300	806	ug/Kg	20	☒	8082A	Total/NA

## Client Sample ID: ED-00.31-SL01-1.0-2.0

## Lab Sample ID: 240-97885-90

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Client Sample ID: ED-00.31-SL01-1.0-2.0 (Continued)

## Lab Sample ID: 240-97885-90

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	372		57.9	27.8	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	372		57.9	35.9	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.33-SL01-0.0-0.7

## Lab Sample ID: 240-97885-94

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	976		63.2	30.4	ug/Kg	1	☒	8082A	Total/NA
PCB-1260	166		63.2	27.8	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1140		63.2	39.2	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.33-SL01-0.7-1.6

## Lab Sample ID: 240-97885-95

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	333		56.0	26.9	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	333		56.0	34.7	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.33-SL01-1.6-2.3

## Lab Sample ID: 240-97885-96

No Detections.

## Client Sample ID: ED-00.23-SL01-0.0-0.7

## Lab Sample ID: 240-97885-99

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	11400		620	298	ug/Kg	10	☒	8082A	Total/NA
PCB-1260	1260		620	273	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	12700		620	385	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-00.23-SL01-1.2-2.0

## Lab Sample ID: 240-97885-100

No Detections.

## Client Sample ID: ED-00.29-SL01-0.0-0.7

## Lab Sample ID: 240-97885-103

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	6460		576	276	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	6460		576	357	ug/Kg	10	☒	8082A	Total/NA

## Client Sample ID: ED-00.29-SL01-0.7-1.7

## Lab Sample ID: 240-97885-104

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	53.1	J	54.9	26.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	53.1	J	54.9	34.0	ug/Kg	1	☒	8082A	Total/NA

## Client Sample ID: ED-00.29-SL01-1.7-2.7-FD

## Lab Sample ID: 240-97885-105

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	45.2	J	65.3	31.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	45.2	J	65.3	40.5	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.36-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-106**

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.51-SL06-1.0-2.0**

**Lab Sample ID: 240-97885-2**

**Date Collected: 06/16/18 16:40**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.3**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	128	U	292	128	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
PCB-1221	140	U	292	140	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
PCB-1232	134	U	292	134	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
PCB-1242	111	U	292	111	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
<b>PCB-1248</b>	<b>2790</b>		292	140	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
PCB-1254	134	U	292	134	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
<b>PCB-1260</b>	<b>422</b>		292	128	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
<b>Polychlorinated biphenyls, Total</b>	<b>3210</b>		292	181	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	07/06/18 14:06	07/10/18 09:58	5
DCB Decachlorobiphenyl	73		10 - 132	07/06/18 14:06	07/10/18 09:58	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.3</b>		0.1	0.1	%			07/02/18 08:55	1
<b>Percent Moisture</b>	<b>16.7</b>		0.1	0.1	%			07/02/18 08:55	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL01-0.5-1.0**

**Lab Sample ID: 240-97885-4**

**Date Collected: 06/15/18 18:12**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 81.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	266	U	604	266	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
PCB-1221	290	U	604	290	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
PCB-1232	278	U	604	278	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
PCB-1242	229	U	604	229	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
<b>PCB-1248</b>	<b>11400</b>		604	290	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
PCB-1254	278	U	604	278	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
<b>PCB-1260</b>	<b>1300</b>		604	266	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
<b>Polychlorinated biphenyls, Total</b>	<b>12700</b>		604	374	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60	p	14 - 128	07/06/18 14:06	07/10/18 10:15	10
DCB Decachlorobiphenyl	57		10 - 132	07/06/18 14:06	07/10/18 10:15	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.0</b>		0.1	0.1	%			07/02/18 08:55	1
<b>Percent Moisture</b>	<b>19.0</b>		0.1	0.1	%			07/02/18 08:55	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-5**

**Date Collected: 06/15/18 18:17**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.4**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	274	U	624	274	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
PCB-1221	299	U	624	299	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
PCB-1232	287	U	624	287	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
PCB-1242	237	U	624	237	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
<b>PCB-1248</b>	<b>6330</b>		624	299	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
PCB-1254	287	U	624	287	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
<b>PCB-1260</b>	<b>943</b>		624	274	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
<b>Polychlorinated biphenyls, Total</b>	<b>7270</b>		624	387	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	07/06/18 14:06	07/10/18 10:33	10
DCB Decachlorobiphenyl	67		10 - 132	07/06/18 14:06	07/10/18 10:33	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.4</b>		0.1	0.1	%			07/02/18 08:55	1
<b>Percent Moisture</b>	<b>16.6</b>		0.1	0.1	%			07/02/18 08:55	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL05-0.0-0.5**

**Lab Sample ID: 240-97885-8**

**Date Collected: 06/15/18 18:26**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 77.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.6	U	62.8	27.6	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1221	30.2	U	62.8	30.2	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1232	28.9	U	62.8	28.9	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1242	23.9	U	62.8	23.9	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
<b>PCB-1248</b>	<b>210</b>		62.8	30.2	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1254	28.9	U	62.8	28.9	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1260	27.6	U	62.8	27.6	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
<b>Polychlorinated biphenyls, Total</b>	<b>210</b>		62.8	39.0	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128	07/06/18 14:06	07/10/18 10:50	1
DCB Decachlorobiphenyl	79		10 - 132	07/06/18 14:06	07/10/18 10:50	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>77.0</b>		0.1	0.1	%			07/02/18 08:55	1
<b>Percent Moisture</b>	<b>23.0</b>		0.1	0.1	%			07/02/18 08:55	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL05-0.5-1.0**

**Lab Sample ID: 240-97885-9**

**Date Collected: 06/15/18 18:27**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 79.8**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.5	U	60.3	26.5	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1221	29.0	U	60.3	29.0	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1232	27.7	U	60.3	27.7	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1242	22.9	U	60.3	22.9	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
<b>PCB-1248</b>	<b>230</b>		60.3	29.0	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1254	27.7	U	60.3	27.7	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1260	26.5	U	60.3	26.5	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
<b>Polychlorinated biphenyls, Total</b>	<b>230</b>		60.3	37.4	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	78		14 - 128	07/06/18 14:06	07/10/18 11:08	1
<i>DCB Decachlorobiphenyl</i>	67		10 - 132	07/06/18 14:06	07/10/18 11:08	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.8</b>		0.1	0.1	%			07/02/18 08:55	1
<b>Percent Moisture</b>	<b>20.2</b>		0.1	0.1	%			07/02/18 08:55	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL05-1.0-1.5**

**Lab Sample ID: 240-97885-11**

**Date Collected: 06/15/18 18:30**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 77.8**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.5	U	62.5	27.5	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1221	30.0	U	62.5	30.0	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1232	28.7	U	62.5	28.7	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1242	23.7	U	62.5	23.7	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
<b>PCB-1248</b>	<b>184</b>		62.5	30.0	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1254	28.7	U	62.5	28.7	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1260	27.5	U	62.5	27.5	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
<b>Polychlorinated biphenyls, Total</b>	<b>184</b>		62.5	38.7	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		14 - 128	07/09/18 07:37	07/11/18 12:21	1
DCB Decachlorobiphenyl	90		10 - 132	07/09/18 07:37	07/11/18 12:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>77.8</b>		0.1	0.1	%			07/02/18 08:55	1
<b>Percent Moisture</b>	<b>22.2</b>		0.1	0.1	%			07/02/18 08:55	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL03-1.7-2.5**

**Lab Sample ID: 240-97885-14**

**Date Collected: 06/14/18 15:52**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 77.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.4	U	62.2	27.4	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1221	29.8	U	62.2	29.8	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1232	28.6	U	62.2	28.6	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1242	23.6	U	62.2	23.6	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1248	29.8	U	62.2	29.8	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1254	28.6	U	62.2	28.6	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1260	27.4	U	62.2	27.4	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
Polychlorinated biphenyls, Total	38.5	U	62.2	38.5	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	07/09/18 07:37	07/11/18 12:40	1
DCB Decachlorobiphenyl	70		10 - 132	07/09/18 07:37	07/11/18 12:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.7		0.1	0.1	%			07/02/18 08:55	1
Percent Moisture	22.3		0.1	0.1	%			07/02/18 08:55	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL03-0.9-1.7**

**Lab Sample ID: 240-97885-15**

**Date Collected: 06/14/18 15:50**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 87.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	24.4	U F2	55.4	24.4	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1221	26.6	U	55.4	26.6	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1232	25.5	U	55.4	25.5	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1242	21.1	U	55.4	21.1	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
<b>PCB-1248</b>	<b>73.6</b>		55.4	26.6	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1254	25.5	U	55.4	25.5	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1260	24.4	U	55.4	24.4	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
<b>Polychlorinated biphenyls, Total</b>	<b>73.6</b>		55.4	34.4	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	07/09/18 08:19	07/10/18 21:01	1
DCB Decachlorobiphenyl	63		10 - 132	07/09/18 08:19	07/10/18 21:01	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.2</b>		0.1	0.1	%			07/02/18 08:55	1
<b>Percent Moisture</b>	<b>12.8</b>		0.1	0.1	%			07/02/18 08:55	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL03-0.0-0.9**

**Lab Sample ID: 240-97885-16**

**Date Collected: 06/14/18 15:47**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 74.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	144	U	327	144	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1221	157	U	327	157	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1232	150	U	327	150	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1242	124	U	327	124	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
<b>PCB-1248</b>	<b>1260</b>		327	157	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1254	150	U	327	150	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1260	144	U	327	144	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
<b>Polychlorinated biphenyls, Total</b>	<b>1260</b>		327	203	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		14 - 128	07/09/18 07:37	07/11/18 12:58	5
DCB Decachlorobiphenyl	191	X	10 - 132	07/09/18 07:37	07/11/18 12:58	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>74.2</b>		0.1	0.1	%			07/02/18 08:55	1
<b>Percent Moisture</b>	<b>25.8</b>		0.1	0.1	%			07/02/18 08:55	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL04-0.0-0.9**

**Lab Sample ID: 240-97885-17**

**Date Collected: 06/14/18 16:10**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 80.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.5	U	60.1	26.5	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1221	28.9	U	60.1	28.9	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1232	27.7	U	60.1	27.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1242	22.8	U	60.1	22.8	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
<b>PCB-1248</b>	<b>35.3</b>	<b>J</b>	60.1	28.9	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1254	27.7	U	60.1	27.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1260	26.5	U	60.1	26.5	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
Polychlorinated biphenyls, Total	37.3	U	60.1	37.3	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	07/09/18 08:19	07/10/18 22:00	1
DCB Decachlorobiphenyl	79	p	10 - 132	07/09/18 08:19	07/10/18 22:00	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>80.5</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>19.5</b>		0.1	0.1	%			07/02/18 15:32	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL04-0.9-1.8**

**Lab Sample ID: 240-97885-18**

**Date Collected: 06/14/18 16:15**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 87.7**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.0	U	59.1	26.0	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1221	28.4	U	59.1	28.4	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1232	27.2	U	59.1	27.2	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1242	22.5	U	59.1	22.5	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
<b>PCB-1248</b>	<b>34.6</b>	<b>J</b>	59.1	28.4	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1254	27.2	U	59.1	27.2	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1260	26.0	U	59.1	26.0	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
Polychlorinated biphenyls, Total	36.6	U	59.1	36.6	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		14 - 128	07/09/18 08:19	07/10/18 22:19	1
DCB Decachlorobiphenyl	53	p	10 - 132	07/09/18 08:19	07/10/18 22:19	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.7</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>12.3</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL04-0.0-0.9-FD**

**Lab Sample ID: 240-97885-19**

**Date Collected: 06/14/18 16:10**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 86.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	24.5	U	55.8	24.5	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1221	26.8	U	55.8	26.8	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1232	25.7	U	55.8	25.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1242	21.2	U	55.8	21.2	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
<b>PCB-1248</b>	<b>29.2</b>	<b>J</b>	55.8	26.8	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1254	25.7	U	55.8	25.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1260	24.5	U	55.8	24.5	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
Polychlorinated biphenyls, Total	34.6	U	55.8	34.6	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	07/09/18 08:19	07/10/18 22:39	1
DCB Decachlorobiphenyl	70	p	10 - 132	07/09/18 08:19	07/10/18 22:39	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>86.9</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>13.1</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL04-1.8-2.7**

**Lab Sample ID: 240-97885-20**

**Date Collected: 06/14/18 16:19**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 77.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	29.1	U	66.1	29.1	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1221	31.7	U	66.1	31.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1232	30.4	U	66.1	30.4	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1242	25.1	U	66.1	25.1	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1248	31.7	U	66.1	31.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1254	30.4	U	66.1	30.4	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1260	29.1	U	66.1	29.1	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
Polychlorinated biphenyls, Total	41.0	U	66.1	41.0	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		14 - 128	07/09/18 08:19	07/10/18 22:58	1
DCB Decachlorobiphenyl	55	p	10 - 132	07/09/18 08:19	07/10/18 22:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.2		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	22.8		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.17-SL02-0.0-0.8-FD**

**Lab Sample ID: 240-97885-22**

**Date Collected: 06/14/18 15:20**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 68.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1560	U	3550	1560	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1221	1710	U	3550	1710	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1232	1640	U	3550	1640	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1242	1350	U	3550	1350	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
<b>PCB-1248</b>	<b>60400</b>		3550	1710	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1254	1640	U	3550	1640	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1260	1560	U	3550	1560	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
<b>Polychlorinated biphenyls, Total</b>	<b>60400</b>		3550	2200	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		14 - 128	07/09/18 08:19	07/10/18 23:18	50
DCB Decachlorobiphenyl	203	p X	10 - 132	07/09/18 08:19	07/10/18 23:18	50

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>68.7</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>31.3</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.17-SL02-0.0-0.8**

**Lab Sample ID: 240-97885-23**

**Date Collected: 06/14/18 15:20**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	2590	U	5890	2590	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1221	2820	U	5890	2820	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1232	2710	U	5890	2710	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1242	2240	U	5890	2240	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
<b>PCB-1248</b>	<b>94200</b>		5890	2820	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1254	2710	U	5890	2710	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1260	2590	U	5890	2590	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
<b>Polychlorinated biphenyls, Total</b>	<b>94200</b>		5890	3650	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111		14 - 128	07/09/18 08:19	07/10/18 23:37	100
DCB Decachlorobiphenyl	358	p X	10 - 132	07/09/18 08:19	07/10/18 23:37	100

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.6</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>16.4</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.17-SL02-0.8-1.8**

**Lab Sample ID: 240-97885-24**

**Date Collected: 06/14/18 15:22**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 85.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	127	U	289	127	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1221	139	U	289	139	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1232	133	U	289	133	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1242	110	U	289	110	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
<b>PCB-1248</b>	<b>3940</b>		289	139	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1254	133	U	289	133	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1260	127	U	289	127	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
<b>Polychlorinated biphenyls, Total</b>	<b>3940</b>		289	179	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		14 - 128	07/09/18 08:19	07/10/18 23:57	5
DCB Decachlorobiphenyl	111		10 - 132	07/09/18 08:19	07/10/18 23:57	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.9</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>14.1</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.17-SL02-1.8-2.8**

**Lab Sample ID: 240-97885-25**

**Date Collected: 06/14/18 15:24**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 77.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.8	U	65.5	28.8	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1221	31.5	U	65.5	31.5	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1232	30.1	U	65.5	30.1	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1242	24.9	U	65.5	24.9	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1248	31.5	U	65.5	31.5	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1254	30.1	U	65.5	30.1	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1260	28.8	U	65.5	28.8	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
Polychlorinated biphenyls, Total	40.6	U	65.5	40.6	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	30		14 - 128	07/09/18 14:12	07/10/18 23:25	1
DCB Decachlorobiphenyl	43		10 - 132	07/09/18 14:12	07/10/18 23:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.2		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	22.8		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.41-SL01-0.0-0.5**

**Lab Sample ID: 240-97885-27**

**Date Collected: 06/14/18 10:03**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 77.4**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	590	U	1340	590	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1221	644	U	1340	644	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1232	617	U	1340	617	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1242	510	U	1340	510	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
<b>PCB-1248</b>	<b>19200</b>		1340	644	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1254	617	U	1340	617	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1260	590	U	1340	590	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
<b>Polychlorinated biphenyls, Total</b>	<b>19200</b>		1340	831	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		14 - 128	07/09/18 08:19	07/11/18 00:16	20
DCB Decachlorobiphenyl	103		10 - 132	07/09/18 08:19	07/11/18 00:16	20

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>77.4</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>22.6</b>		0.1	0.1	%			07/02/18 15:32	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.41-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-28**

**Date Collected: 06/14/18 10:06**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 85.6**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.8	U	58.7	25.8	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1221	28.2	U	58.7	28.2	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1232	27.0	U	58.7	27.0	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1242	22.3	U	58.7	22.3	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
<b>PCB-1248</b>	<b>454</b>		58.7	28.2	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1254	27.0	U	58.7	27.0	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1260	25.8	U	58.7	25.8	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
<b>Polychlorinated biphenyls, Total</b>	<b>454</b>		58.7	36.4	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		14 - 128	07/09/18 08:19	07/11/18 00:36	1
DCB Decachlorobiphenyl	64		10 - 132	07/09/18 08:19	07/11/18 00:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85.6</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>14.4</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.41-SL01-1.5-2.0**

**Lab Sample ID: 240-97885-29**

**Date Collected: 06/14/18 10:08**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 77.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.6	U	62.8	27.6	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1221	30.1	U	62.8	30.1	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1232	28.9	U	62.8	28.9	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1242	23.8	U	62.8	23.8	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
<b>PCB-1248</b>	<b>39.2</b>	<b>J p</b>	62.8	30.1	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1254	28.9	U	62.8	28.9	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1260	27.6	U	62.8	27.6	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
<b>Polychlorinated biphenyls, Total</b>	<b>39.2</b>	<b>J</b>	62.8	38.9	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		14 - 128	07/09/18 08:19	07/11/18 00:55	1
DCB Decachlorobiphenyl	84		10 - 132	07/09/18 08:19	07/11/18 00:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>77.1</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>22.9</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.41-SL01-1.5-2.0-FD**

**Lab Sample ID: 240-97885-30**

**Date Collected: 06/14/18 10:08**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 84.8**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.6	U	60.5	26.6	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1221	29.0	U	60.5	29.0	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1232	27.8	U	60.5	27.8	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1242	23.0	U	60.5	23.0	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
<b>PCB-1248</b>	<b>41.0</b>	<b>J</b>	60.5	29.0	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1254	27.8	U	60.5	27.8	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1260	26.6	U	60.5	26.6	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
<b>Polychlorinated biphenyls, Total</b>	<b>41.0</b>	<b>J</b>	60.5	37.5	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	07/09/18 08:19	07/11/18 01:15	1
DCB Decachlorobiphenyl	77	p	10 - 132	07/09/18 08:19	07/11/18 01:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.8</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>15.2</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.19-SL01-1.8-2.3**

**Lab Sample ID: 240-97885-34**

**Date Collected: 06/14/18 14:48**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 86.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	124	U	281	124	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1221	135	U	281	135	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1232	129	U	281	129	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1242	107	U	281	107	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
<b>PCB-1248</b>	<b>1690</b>		281	135	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1254	129	U	281	129	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1260	124	U	281	124	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
<b>Polychlorinated biphenyls, Total</b>	<b>1690</b>		281	174	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	07/09/18 14:12	07/11/18 03:39	5
DCB Decachlorobiphenyl	863	X	10 - 132	07/09/18 14:12	07/11/18 03:39	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>86.5</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>13.5</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.19-SL01-1.5-1.8**

**Lab Sample ID: 240-97885-35**

**Date Collected: 06/14/18 14:46**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 82.8**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	137	U	310	137	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1221	149	U	310	149	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1232	143	U	310	143	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1242	118	U	310	118	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
<b>PCB-1248</b>	<b>1580</b>		310	149	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1254	143	U	310	143	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1260	137	U	310	137	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
<b>Polychlorinated biphenyls, Total</b>	<b>1580</b>		310	193	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	07/06/18 07:48	07/08/18 22:17	5
DCB Decachlorobiphenyl	93	p	10 - 132	07/06/18 07:48	07/08/18 22:17	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>82.8</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>17.2</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.19-SL01-0.0-0.8**

**Lab Sample ID: 240-97885-36**

**Date Collected: 06/14/18 04:40**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 84.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	126	U	286	126	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1221	137	U	286	137	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1232	132	U	286	132	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1242	109	U	286	109	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
<b>PCB-1248</b>	<b>1500</b>		286	137	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1254	132	U	286	132	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1260	126	U	286	126	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
<b>Polychlorinated biphenyls, Total</b>	<b>1500</b>		286	177	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	07/06/18 07:48	07/08/18 22:34	5
DCB Decachlorobiphenyl	213	X	10 - 132	07/06/18 07:48	07/08/18 22:34	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.2</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>15.8</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.19-SL01-0.8-1.5**

**Lab Sample ID: 240-97885-37**

**Date Collected: 06/14/18 14:42**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 84.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.0	U	61.4	27.0	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1221	29.5	U	61.4	29.5	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1232	28.2	U	61.4	28.2	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1242	23.3	U	61.4	23.3	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
<b>PCB-1248</b>	<b>182</b>		61.4	29.5	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1254	28.2	U	61.4	28.2	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1260	27.0	U	61.4	27.0	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
<b>Polychlorinated biphenyls, Total</b>	<b>182</b>		61.4	38.1	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	07/06/18 07:48	07/08/18 22:51	1
DCB Decachlorobiphenyl	125		10 - 132	07/06/18 07:48	07/08/18 22:51	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.1</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>15.9</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.19-SL01-0.8-1.5-FD**

**Lab Sample ID: 240-97885-38**

**Date Collected: 06/14/18 14:42**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.9**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.7	U	60.8	26.7	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1221	29.2	U	60.8	29.2	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1232	28.0	U	60.8	28.0	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1242	23.1	U	60.8	23.1	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
<b>PCB-1248</b>	<b>170</b>		60.8	29.2	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1254	28.0	U	60.8	28.0	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1260	26.7	U	60.8	26.7	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
<b>Polychlorinated biphenyls, Total</b>	<b>170</b>		60.8	37.7	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	07/06/18 07:48	07/08/18 23:08	1
DCB Decachlorobiphenyl	94		10 - 132	07/06/18 07:48	07/08/18 23:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.9</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>16.1</b>		0.1	0.1	%			07/02/18 15:32	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.21-SL01-0.0-1.0**

**Lab Sample ID: 240-97885-41**

**Date Collected: 06/14/18 14:56**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 84.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.2	U	61.7	27.2	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1221	29.6	U	61.7	29.6	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1232	28.4	U	61.7	28.4	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1242	23.4	U	61.7	23.4	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
<b>PCB-1248</b>	<b>826</b>		61.7	29.6	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1254	28.4	U	61.7	28.4	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1260	27.2	U	61.7	27.2	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
<b>Polychlorinated biphenyls, Total</b>	<b>826</b>		61.7	38.3	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	07/06/18 07:48	07/08/18 23:25	1
DCB Decachlorobiphenyl	95		10 - 132	07/06/18 07:48	07/08/18 23:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.5</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>15.5</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.21-SL01-1.0-2.0**

**Lab Sample ID: 240-97885-42**

**Date Collected: 06/14/18 14:58**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 85.7**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.1	U	57.1	25.1	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1221	27.4	U	57.1	27.4	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1232	26.3	U	57.1	26.3	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1242	21.7	U	57.1	21.7	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1248	27.4	U	57.1	27.4	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1254	26.3	U	57.1	26.3	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1260	25.1	U	57.1	25.1	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
Polychlorinated biphenyls, Total	35.4	U	57.1	35.4	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	07/06/18 10:36	07/10/18 14:11	1
DCB Decachlorobiphenyl	69		10 - 132	07/06/18 10:36	07/10/18 14:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.7		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	14.3		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.21-SL01-1.0-2.0-FD**

**Lab Sample ID: 240-97885-43**

**Date Collected: 06/14/18 14:58**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.9	U	58.8	25.9	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1221	28.2	U	58.8	28.2	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1232	27.1	U	58.8	27.1	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1242	22.4	U	58.8	22.4	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1248	28.2	U	58.8	28.2	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1254	27.1	U	58.8	27.1	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1260	25.9	U	58.8	25.9	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
Polychlorinated biphenyls, Total	36.5	U	58.8	36.5	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	07/06/18 10:36	07/10/18 14:30	1
DCB Decachlorobiphenyl	72		10 - 132	07/06/18 10:36	07/10/18 14:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.4		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	16.6		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.27-SL01-0.0-1.0**

**Lab Sample ID: 240-97885-46**

**Date Collected: 06/14/18 13:39**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 70.1**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1600	U	3640	1600	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1221	1750	U	3640	1750	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1232	1670	U	3640	1670	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1242	1380	U	3640	1380	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
<b>PCB-1248</b>	<b>25500</b>		3640	1750	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1254	1670	U	3640	1670	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1260	1600	U	3640	1600	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
<b>Polychlorinated biphenyls, Total</b>	<b>25500</b>		3640	2260	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		14 - 128	07/06/18 10:36	07/10/18 14:50	50
DCB Decachlorobiphenyl	1369	p X	10 - 132	07/06/18 10:36	07/10/18 14:50	50

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>70.1</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>29.9</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.27-SL01-1.0-1.9**

**Lab Sample ID: 240-97885-47**

**Date Collected: 06/14/18 13:41**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 81.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.6	U	62.7	27.6	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1221	30.1	U	62.7	30.1	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1232	28.8	U	62.7	28.8	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1242	23.8	U	62.7	23.8	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
<b>PCB-1248</b>	<b>127</b>		62.7	30.1	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1254	28.8	U	62.7	28.8	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1260	27.6	U	62.7	27.6	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
<b>Polychlorinated biphenyls, Total</b>	<b>127</b>		62.7	38.9	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	07/06/18 10:40	07/10/18 15:09	1
DCB Decachlorobiphenyl	92	p	10 - 132	07/06/18 10:40	07/10/18 15:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81.0</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>19.0</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.27-SL01-1.9-2.8**

**Lab Sample ID: 240-97885-48**

**Date Collected: 06/14/18 13:43**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 79.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.2	U	64.2	28.2	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1221	30.8	U	64.2	30.8	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1232	29.5	U	64.2	29.5	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1242	24.4	U	64.2	24.4	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1248	30.8	U	64.2	30.8	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1254	29.5	U	64.2	29.5	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1260	28.2	U	64.2	28.2	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
Polychlorinated biphenyls, Total	39.8	U	64.2	39.8	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	07/06/18 10:40	07/10/18 11:15	1
DCB Decachlorobiphenyl	59		10 - 132	07/06/18 10:40	07/10/18 11:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.2		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	20.8		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.23-SL01-0.7-1.2**

**Lab Sample ID: 240-97885-50**

**Date Collected: 06/14/18 12:55**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 86.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.5	U	60.3	26.5	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1221	28.9	U	60.3	28.9	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1232	27.7	U	60.3	27.7	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1242	22.9	U	60.3	22.9	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1248	28.9	U	60.3	28.9	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1254	27.7	U	60.3	27.7	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1260	26.5	U	60.3	26.5	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
Polychlorinated biphenyls, Total	37.4	U	60.3	37.4	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	07/06/18 11:08	07/10/18 16:47	1
DCB Decachlorobiphenyl	63	p	10 - 132	07/06/18 11:08	07/10/18 16:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.0		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	14.0		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.23-SL01-0.7-1.2-FD**

**Lab Sample ID: 240-97885-51**

**Date Collected: 06/14/18 12:55**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 84.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.7	U	58.5	25.7	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1221	28.1	U	58.5	28.1	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1232	26.9	U	58.5	26.9	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1242	22.2	U	58.5	22.2	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
<b>PCB-1248</b>	<b>32.0</b>	<b>J</b>	58.5	28.1	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1254	26.9	U	58.5	26.9	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1260	25.7	U	58.5	25.7	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
Polychlorinated biphenyls, Total	36.2	U	58.5	36.2	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		14 - 128	07/06/18 11:08	07/10/18 17:07	1
DCB Decachlorobiphenyl	74		10 - 132	07/06/18 11:08	07/10/18 17:07	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>84.5</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>15.5</b>		0.1	0.1	%			07/02/18 15:32	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL04-0.5-1.0**

**Lab Sample ID: 240-97885-56**

**Date Collected: 06/15/18 18:33**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 78.0**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.3	U	62.0	27.3	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1221	29.8	U	62.0	29.8	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1232	28.5	U	62.0	28.5	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1242	23.6	U	62.0	23.6	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
<b>PCB-1248</b>	<b>729</b>	<b>p</b>	62.0	29.8	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1254	28.5	U	62.0	28.5	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1260	27.3	U	62.0	27.3	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
<b>Polychlorinated biphenyls, Total</b>	<b>729</b>		62.0	38.5	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	53	p	14 - 128	07/06/18 11:08	07/10/18 17:26	1
DCB Decachlorobiphenyl	93	p	10 - 132	07/06/18 11:08	07/10/18 17:26	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.0</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>22.0</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL04-1.5-1.8**

**Lab Sample ID: 240-97885-57**

**Date Collected: 06/15/18 18:40**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 75.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.1	U	63.8	28.1	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1221	30.6	U	63.8	30.6	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1232	29.3	U	63.8	29.3	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1242	24.2	U	63.8	24.2	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
<b>PCB-1248</b>	<b>1080</b>		63.8	30.6	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1254	29.3	U	63.8	29.3	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1260	28.1	U	63.8	28.1	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
<b>Polychlorinated biphenyls, Total</b>	<b>1080</b>		63.8	39.5	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		14 - 128	07/09/18 08:19	07/11/18 01:35	1
DCB Decachlorobiphenyl	53	p	10 - 132	07/09/18 08:19	07/11/18 01:35	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>75.2</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>24.8</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL04-1.0-1.5**

**Lab Sample ID: 240-97885-58**

**Date Collected: 06/15/18 18:35**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.7	U	60.7	26.7	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1221	29.1	U	60.7	29.1	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1232	27.9	U	60.7	27.9	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1242	23.1	U	60.7	23.1	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
<b>PCB-1248</b>	<b>768</b>		60.7	29.1	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1254	27.9	U	60.7	27.9	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1260	26.7	U	60.7	26.7	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
<b>Polychlorinated biphenyls, Total</b>	<b>768</b>		60.7	37.6	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	07/09/18 08:19	07/11/18 02:53	1
DCB Decachlorobiphenyl	72		10 - 132	07/09/18 08:19	07/11/18 02:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.2</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>16.8</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL04-0.0-0.5**

**Lab Sample ID: 240-97885-59**

**Date Collected: 06/15/18 18:30**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 75.7**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	146	U	331	146	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1221	159	U	331	159	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1232	152	U	331	152	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1242	126	U	331	126	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
<b>PCB-1248</b>	<b>2460</b>		331	159	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1254	152	U	331	152	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1260	146	U	331	146	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
<b>Polychlorinated biphenyls, Total</b>	<b>2460</b>		331	205	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	07/09/18 08:19	07/11/18 03:12	5
DCB Decachlorobiphenyl	98		10 - 132	07/09/18 08:19	07/11/18 03:12	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>75.7</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>24.3</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.36-SL01-0.4-1.0**

**Lab Sample ID: 240-97885-60**

**Date Collected: 06/14/18 10:58**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 81.8**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.0	U	63.5	28.0	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1221	30.5	U	63.5	30.5	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1232	29.2	U	63.5	29.2	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1242	24.1	U	63.5	24.1	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1248	30.5	U	63.5	30.5	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1254	29.2	U	63.5	29.2	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1260	28.0	U	63.5	28.0	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
Polychlorinated biphenyls, Total	39.4	U	63.5	39.4	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		14 - 128	07/09/18 08:19	07/11/18 03:32	1
DCB Decachlorobiphenyl	69	p	10 - 132	07/09/18 08:19	07/11/18 03:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.8		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	18.2		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL03-0.9-1.7**

**Lab Sample ID: 240-97885-61**

**Date Collected: 06/14/18 15:50**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 82.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.4	U	57.8	25.4	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1221	27.8	U	57.8	27.8	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1232	26.6	U	57.8	26.6	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1242	22.0	U	57.8	22.0	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
<b>PCB-1248</b>	<b>141</b>		57.8	27.8	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1254	26.6	U	57.8	26.6	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1260	25.4	U	57.8	25.4	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
<b>Polychlorinated biphenyls, Total</b>	<b>141</b>		57.8	35.8	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		14 - 128	07/09/18 08:19	07/11/18 03:51	1
DCB Decachlorobiphenyl	56		10 - 132	07/09/18 08:19	07/11/18 03:51	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>82.9</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>17.1</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.36-SL01-0.0-0.4**

**Lab Sample ID: 240-97885-62**

**Date Collected: 06/14/18 10:50**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 96.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22.9	U	52.1	22.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1221	25.0	U	52.1	25.0	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1232	24.0	U	52.1	24.0	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1242	19.8	U	52.1	19.8	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
<b>PCB-1248</b>	<b>368</b>		52.1	25.0	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1254	24.0	U	52.1	24.0	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1260	22.9	U	52.1	22.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
<b>Polychlorinated biphenyls, Total</b>	<b>368</b>		52.1	32.3	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	07/09/18 08:19	07/11/18 04:11	1
DCB Decachlorobiphenyl	75	p	10 - 132	07/09/18 08:19	07/11/18 04:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>96.4</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>3.6</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.36-SL01-1.5-2.0**

**Lab Sample ID: 240-97885-65**

**Date Collected: 06/14/18 10:50**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 86.9**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.8	U	58.7	25.8	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1221	28.2	U	58.7	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1232	27.0	U	58.7	27.0	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1242	22.3	U	58.7	22.3	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1248	28.2	U	58.7	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1254	27.0	U	58.7	27.0	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1260	25.8	U	58.7	25.8	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
Polychlorinated biphenyls, Total	36.4	U	58.7	36.4	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	07/06/18 14:06	07/10/18 13:44	1
DCB Decachlorobiphenyl	78		10 - 132	07/06/18 14:06	07/10/18 13:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.9		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	13.1		0.1	0.1	%			07/02/18 15:32	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.41-SL01-0.5-1.0**

**Lab Sample ID: 240-97885-66**

**Date Collected: 06/14/18 10:05**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 87.9**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	50.9	U	116	50.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1221	55.5	U	116	55.5	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1232	53.2	U	116	53.2	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1242	44.0	U	116	44.0	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
<b>PCB-1248</b>	<b>1980</b>		116	55.5	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1254	53.2	U	116	53.2	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1260	50.9	U	116	50.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
<b>Polychlorinated biphenyls, Total</b>	<b>1980</b>		116	71.7	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	07/09/18 08:19	07/11/18 04:30	2
DCB Decachlorobiphenyl	71		10 - 132	07/09/18 08:19	07/11/18 04:30	2

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.9</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>12.1</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.36-SL01-1.5-2.0-FD**

**Lab Sample ID: 240-97885-68**

**Date Collected: 06/14/18 10:50**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 84.5**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.9	U	58.8	25.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1221	28.2	U	58.8	28.2	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1232	27.1	U	58.8	27.1	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1242	22.3	U	58.8	22.3	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1248	28.2	U	58.8	28.2	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1254	27.1	U	58.8	27.1	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1260	25.9	U	58.8	25.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
Polychlorinated biphenyls, Total	36.5	U	58.8	36.5	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	07/09/18 08:19	07/11/18 04:50	1
DCB Decachlorobiphenyl	56	p	10 - 132	07/09/18 08:19	07/11/18 04:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.5		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	15.5		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.36-SL01-0.4-1.0**

**Lab Sample ID: 240-97885-69**

**Date Collected: 06/14/18 10:55**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 80.4**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.0	U	63.6	28.0	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1221	30.6	U	63.6	30.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1232	29.3	U	63.6	29.3	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1242	24.2	U	63.6	24.2	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1248	30.6	U	63.6	30.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1254	29.3	U	63.6	29.3	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1260	28.0	U	63.6	28.0	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
Polychlorinated biphenyls, Total	39.5	U	63.6	39.5	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	07/09/18 14:12	07/11/18 01:08	1
DCB Decachlorobiphenyl	98		10 - 132	07/09/18 14:12	07/11/18 01:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.4		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	19.6		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.19-SL01-1.8-2.3**

**Lab Sample ID: 240-97885-70**

**Date Collected: 06/14/18 14:48**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 88.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	51.1	U	116	51.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1221	55.7	U	116	55.7	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1232	53.4	U	116	53.4	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1242	44.1	U	116	44.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
<b>PCB-1248</b>	<b>1780</b>		116	55.7	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1254	53.4	U	116	53.4	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1260	51.1	U	116	51.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
<b>Polychlorinated biphenyls, Total</b>	<b>1780</b>		116	71.9	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	07/09/18 14:12	07/11/18 01:24	2
DCB Decachlorobiphenyl	109		10 - 132	07/09/18 14:12	07/11/18 01:24	2

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>88.1</b>		0.1	0.1	%			07/02/18 15:32	1
<b>Percent Moisture</b>	<b>11.9</b>		0.1	0.1	%			07/02/18 15:32	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.29-SL01-1.7-2.7**

**Lab Sample ID: 240-97885-74**

**Date Collected: 06/14/18 13:36**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 70.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	30.1	U	68.4	30.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1221	32.8	U	68.4	32.8	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1232	31.4	U	68.4	31.4	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1242	26.0	U	68.4	26.0	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
<b>PCB-1248</b>	<b>66.8</b>	<b>J</b>	68.4	32.8	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1254	31.4	U	68.4	31.4	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1260	30.1	U	68.4	30.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
<b>Polychlorinated biphenyls, Total</b>	<b>66.8</b>	<b>J</b>	68.4	42.4	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	07/09/18 14:12	07/11/18 01:41	1
DCB Decachlorobiphenyl	339	X	10 - 132	07/09/18 14:12	07/11/18 01:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>70.1</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>29.9</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.44-SL01-0.0-0.5**

**Lab Sample ID: 240-97885-77**

**Date Collected: 06/14/18 11:20**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 95.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	23.5	U	53.4	23.5	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1221	25.6	U	53.4	25.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1232	24.6	U	53.4	24.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1242	20.3	U	53.4	20.3	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
<b>PCB-1248</b>	<b>340</b>		53.4	25.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1254	24.6	U	53.4	24.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1260	23.5	U	53.4	23.5	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
<b>Polychlorinated biphenyls, Total</b>	<b>340</b>		53.4	33.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		14 - 128	07/09/18 14:12	07/11/18 01:58	1
DCB Decachlorobiphenyl	193	X	10 - 132	07/09/18 14:12	07/11/18 01:58	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>95.9</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>4.1</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.44-SL01-0.5-1.0**

**Lab Sample ID: 240-97885-78**

**Date Collected: 06/14/18 11:22**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 95.4**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	23.4	U	53.1	23.4	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1221	25.5	U	53.1	25.5	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1232	24.4	U	53.1	24.4	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1242	20.2	U	53.1	20.2	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
<b>PCB-1248</b>	<b>405</b>		53.1	25.5	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1254	24.4	U	53.1	24.4	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1260	23.4	U	53.1	23.4	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
<b>Polychlorinated biphenyls, Total</b>	<b>405</b>		53.1	32.9	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		14 - 128	07/09/18 14:12	07/11/18 02:14	1
DCB Decachlorobiphenyl	309	X	10 - 132	07/09/18 14:12	07/11/18 02:14	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>95.4</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>4.6</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.44-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-79**

**Date Collected: 06/14/18 11:27**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 94.3**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	24.1	U	54.8	24.1	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1221	26.3	U	54.8	26.3	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1232	25.2	U	54.8	25.2	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1242	20.8	U	54.8	20.8	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
<b>PCB-1248</b>	<b>448</b>		54.8	26.3	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1254	25.2	U	54.8	25.2	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1260	24.1	U	54.8	24.1	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
<b>Polychlorinated biphenyls, Total</b>	<b>448</b>		54.8	34.0	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	50		14 - 128	07/09/18 14:12	07/11/18 02:32	1
DCB Decachlorobiphenyl	174	X	10 - 132	07/09/18 14:12	07/11/18 02:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>94.3</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>5.7</b>		0.1	0.1	%			07/02/18 15:45	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.44-SL01-1.5-1.8**

**Lab Sample ID: 240-97885-80**

**Date Collected: 06/14/18 11:34**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 89.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	23.9	U	54.4	23.9	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1221	26.1	U	54.4	26.1	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1232	25.0	U	54.4	25.0	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1242	20.7	U	54.4	20.7	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
<b>PCB-1248</b>	<b>30.2</b>	<b>J p</b>	54.4	26.1	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1254	25.0	U	54.4	25.0	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1260	23.9	U	54.4	23.9	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
<b>Polychlorinated biphenyls, Total</b>	<b>94.4</b>		54.4	33.7	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		14 - 128	07/09/18 14:12	07/11/18 02:49	1
Tetrachloro-m-xylene	59		14 - 128	07/09/18 14:12	07/11/18 02:49	1
DCB Decachlorobiphenyl	114	p	10 - 132	07/09/18 14:12	07/11/18 02:49	1
DCB Decachlorobiphenyl	277	X	10 - 132	07/09/18 14:12	07/11/18 02:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>89.1</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>10.9</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.44-SL01-1.8-2.0**

**Lab Sample ID: 240-97885-81**

**Date Collected: 06/14/18 11:40**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 89.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.6	U	58.1	25.6	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1221	27.9	U	58.1	27.9	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1232	26.7	U	58.1	26.7	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1242	22.1	U	58.1	22.1	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
<b>PCB-1248</b>	<b>142</b>	<b>p</b>	58.1	27.9	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1254	26.7	U	58.1	26.7	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1260	25.6	U	58.1	25.6	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
<b>Polychlorinated biphenyls, Total</b>	<b>287</b>		58.1	36.1	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		14 - 128	07/09/18 14:12	07/11/18 03:05	1
Tetrachloro-m-xylene	51		14 - 128	07/09/18 14:12	07/11/18 03:05	1
DCB Decachlorobiphenyl	169	X	10 - 132	07/09/18 14:12	07/11/18 03:05	1
DCB Decachlorobiphenyl	194	X	10 - 132	07/09/18 14:12	07/11/18 03:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>89.2</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>10.8</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL06-0.0-0.5**

**Lab Sample ID: 240-97885-85**

**Date Collected: 06/13/18 13:56**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 78.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	29.0	U	65.8	29.0	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
PCB-1221	31.6	U	65.8	31.6	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
PCB-1232	30.3	U	65.8	30.3	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
PCB-1242	25.0	U	65.8	25.0	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
<b>PCB-1248</b>	<b>1180</b>		65.8	31.6	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
PCB-1254	30.3	U	65.8	30.3	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
<b>PCB-1260</b>	<b>387</b>		65.8	29.0	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
<b>Polychlorinated biphenyls, Total</b>	<b>1570</b>		65.8	40.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	07/06/18 14:06	07/10/18 07:22	1
DCB Decachlorobiphenyl	78		10 - 132	07/06/18 14:06	07/10/18 07:22	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.5</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>21.5</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL06-0.5-1.0**

**Lab Sample ID: 240-97885-86**

**Date Collected: 06/13/18 13:58**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.1**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.3	U	62.1	27.3	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
PCB-1221	29.8	U	62.1	29.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
PCB-1232	28.5	U	62.1	28.5	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
PCB-1242	23.6	U	62.1	23.6	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
<b>PCB-1248</b>	<b>319</b>		62.1	29.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
PCB-1254	28.5	U	62.1	28.5	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
<b>PCB-1260</b>	<b>113</b>		62.1	27.3	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
<b>Polychlorinated biphenyls, Total</b>	<b>432</b>		62.1	38.5	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	07/06/18 14:06	07/10/18 07:39	1
DCB Decachlorobiphenyl	70		10 - 132	07/06/18 14:06	07/10/18 07:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.1</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>16.9</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL06-1.0-1.5**

**Lab Sample ID: 240-97885-87**

**Date Collected: 06/13/18 14:12**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 79.9**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.2	U	64.2	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
PCB-1221	30.8	U	64.2	30.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
PCB-1232	29.5	U	64.2	29.5	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
PCB-1242	24.4	U	64.2	24.4	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
<b>PCB-1248</b>	<b>221</b>		64.2	30.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
PCB-1254	29.5	U	64.2	29.5	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
<b>PCB-1260</b>	<b>61.5</b>	<b>J</b>	64.2	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
<b>Polychlorinated biphenyls, Total</b>	<b>283</b>		64.2	39.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		14 - 128	07/06/18 14:06	07/10/18 07:56	1
DCB Decachlorobiphenyl	61		10 - 132	07/06/18 14:06	07/10/18 07:56	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.9</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>20.1</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.31-SL01-0.0-1.0**

**Lab Sample ID: 240-97885-89**

**Date Collected: 06/14/18 12:13**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 79.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	572	U	1300	572	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1221	624	U	1300	624	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1232	598	U	1300	598	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1242	494	U	1300	494	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
<b>PCB-1248</b>	<b>22400</b>		1300	624	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1254	598	U	1300	598	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1260	572	U	1300	572	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
<b>Polychlorinated biphenyls, Total</b>	<b>22400</b>		1300	806	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76	p	14 - 128	07/06/18 14:06	07/10/18 08:31	20
DCB Decachlorobiphenyl	71		10 - 132	07/06/18 14:06	07/10/18 08:31	20

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79.2</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>20.8</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.31-SL01-1.0-2.0**

**Lab Sample ID: 240-97885-90**

**Date Collected: 06/14/18 12:15**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 87.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.5	U	57.9	25.5	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1221	27.8	U	57.9	27.8	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1232	26.6	U	57.9	26.6	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1242	22.0	U	57.9	22.0	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
<b>PCB-1248</b>	<b>372</b>		57.9	27.8	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1254	26.6	U	57.9	26.6	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1260	25.5	U	57.9	25.5	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
<b>Polychlorinated biphenyls, Total</b>	<b>372</b>		57.9	35.9	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	07/06/18 14:06	07/10/18 08:48	1
DCB Decachlorobiphenyl	70		10 - 132	07/06/18 14:06	07/10/18 08:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.0</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>13.0</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.33-SL01-0.0-0.7**

**Lab Sample ID: 240-97885-94**

**Date Collected: 06/14/18 12:20**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 78.2**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.8	U	63.2	27.8	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
PCB-1221	30.4	U	63.2	30.4	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
PCB-1232	29.1	U	63.2	29.1	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
PCB-1242	24.0	U	63.2	24.0	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
<b>PCB-1248</b>	<b>976</b>		63.2	30.4	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
PCB-1254	29.1	U	63.2	29.1	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
<b>PCB-1260</b>	<b>166</b>		63.2	27.8	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
<b>Polychlorinated biphenyls, Total</b>	<b>1140</b>		63.2	39.2	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		14 - 128	07/06/18 14:06	07/10/18 09:06	1
DCB Decachlorobiphenyl	66		10 - 132	07/06/18 14:06	07/10/18 09:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>78.2</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>21.8</b>		0.1	0.1	%			07/02/18 15:45	1



# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.33-SL01-0.7-1.6**

**Lab Sample ID: 240-97885-95**

**Date Collected: 06/14/18 12:25**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 88.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	24.6	U	56.0	24.6	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1221	26.9	U	56.0	26.9	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1232	25.8	U	56.0	25.8	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1242	21.3	U	56.0	21.3	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
<b>PCB-1248</b>	<b>333</b>		56.0	26.9	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1254	25.8	U	56.0	25.8	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1260	24.6	U	56.0	24.6	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
<b>Polychlorinated biphenyls, Total</b>	<b>333</b>		56.0	34.7	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		14 - 128	07/06/18 14:06	07/10/18 09:23	1
DCB Decachlorobiphenyl	70		10 - 132	07/06/18 14:06	07/10/18 09:23	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>88.2</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>11.8</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.33-SL01-1.6-2.3**

**Lab Sample ID: 240-97885-96**

**Date Collected: 06/14/18 12:27**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 86.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.1	U	59.3	26.1	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1221	28.4	U	59.3	28.4	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1232	27.3	U	59.3	27.3	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1242	22.5	U	59.3	22.5	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1248	28.4	U	59.3	28.4	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1254	27.3	U	59.3	27.3	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1260	26.1	U	59.3	26.1	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
Polychlorinated biphenyls, Total	36.7	U	59.3	36.7	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	54		14 - 128	07/06/18 14:06	07/10/18 09:41	1
DCB Decachlorobiphenyl	66		10 - 132	07/06/18 14:06	07/10/18 09:41	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.5		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	13.5		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.23-SL01-0.0-0.7**

**Lab Sample ID: 240-97885-99**

**Date Collected: 06/14/18 12:51**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.3**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	273	U	620	273	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
PCB-1221	298	U	620	298	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
PCB-1232	285	U	620	285	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
PCB-1242	236	U	620	236	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
<b>PCB-1248</b>	<b>11400</b>		620	298	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
PCB-1254	285	U	620	285	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
<b>PCB-1260</b>	<b>1260</b>		620	273	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
<b>Polychlorinated biphenyls, Total</b>	<b>12700</b>		620	385	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		14 - 128	07/06/18 14:06	07/10/18 11:25	10
DCB Decachlorobiphenyl	65	p	10 - 132	07/06/18 14:06	07/10/18 11:25	10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83.3</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>16.7</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.23-SL01-1.2-2.0**

**Lab Sample ID: 240-97885-100**

**Date Collected: 06/14/18 12:56**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.0**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.0	U	61.3	27.0	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1221	29.4	U	61.3	29.4	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1232	28.2	U	61.3	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1242	23.3	U	61.3	23.3	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1248	29.4	U	61.3	29.4	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1254	28.2	U	61.3	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1260	27.0	U	61.3	27.0	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
Polychlorinated biphenyls, Total	38.0	U	61.3	38.0	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	07/06/18 14:06	07/10/18 11:42	1
DCB Decachlorobiphenyl	69		10 - 132	07/06/18 14:06	07/10/18 11:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.0		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	17.0		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.29-SL01-0.0-0.7**

**Lab Sample ID: 240-97885-103**

**Date Collected: 06/14/18 13:32**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 86.5**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	253	U	576	253	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1221	276	U	576	276	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1232	265	U	576	265	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1242	219	U	576	219	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
<b>PCB-1248</b>	<b>6460</b>		576	276	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1254	265	U	576	265	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1260	253	U	576	253	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
<b>Polychlorinated biphenyls, Total</b>	<b>6460</b>		576	357	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	07/06/18 14:06	07/10/18 12:00	10
DCB Decachlorobiphenyl	56		10 - 132	07/06/18 14:06	07/10/18 12:00	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>86.5</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>13.5</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.29-SL01-0.7-1.7**

**Lab Sample ID: 240-97885-104**

**Date Collected: 06/14/18 13:34**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 87.7**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	24.1	U	54.9	24.1	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1221	26.3	U	54.9	26.3	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1232	25.2	U	54.9	25.2	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1242	20.8	U	54.9	20.8	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
<b>PCB-1248</b>	<b>53.1</b>	<b>J</b>	54.9	26.3	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1254	25.2	U	54.9	25.2	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1260	24.1	U	54.9	24.1	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
<b>Polychlorinated biphenyls, Total</b>	<b>53.1</b>	<b>J</b>	54.9	34.0	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		14 - 128	07/06/18 14:06	07/10/18 12:17	1
DCB Decachlorobiphenyl	84		10 - 132	07/06/18 14:06	07/10/18 12:17	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87.7</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>12.3</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.29-SL01-1.7-2.7-FD**

**Lab Sample ID: 240-97885-105**

**Date Collected: 06/14/18 13:36**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 74.3**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.7	U	65.3	28.7	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1221	31.3	U	65.3	31.3	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1232	30.0	U	65.3	30.0	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1242	24.8	U	65.3	24.8	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
<b>PCB-1248</b>	<b>45.2</b>	<b>J</b>	65.3	31.3	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1254	30.0	U	65.3	30.0	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1260	28.7	U	65.3	28.7	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
<b>Polychlorinated biphenyls, Total</b>	<b>45.2</b>	<b>J</b>	65.3	40.5	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		14 - 128	07/06/18 14:06	07/10/18 13:27	1
DCB Decachlorobiphenyl	77		10 - 132	07/06/18 14:06	07/10/18 13:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>74.3</b>		0.1	0.1	%			07/02/18 15:45	1
<b>Percent Moisture</b>	<b>25.7</b>		0.1	0.1	%			07/02/18 15:45	1

# Client Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.36-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-106**

**Date Collected: 06/14/18 10:51**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.2**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.5	U	58.0	25.5	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1221	27.9	U	58.0	27.9	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1232	26.7	U	58.0	26.7	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1242	22.1	U	58.0	22.1	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1248	27.9	U	58.0	27.9	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1254	26.7	U	58.0	26.7	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1260	25.5	U	58.0	25.5	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
Polychlorinated biphenyls, Total	36.0	U	58.0	36.0	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	07/06/18 14:06	07/10/18 08:14	1
DCB Decachlorobiphenyl	68		10 - 132	07/06/18 14:06	07/10/18 08:14	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.2		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	16.8		0.1	0.1	%			07/02/18 15:45	1



# Surrogate Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCBP1 (10-132)	DCBP2 (10-132)
240-97885-2	ED-00.51-SL06-1.0-2.0		72		73
240-97885-4	ED-01.14-SL01-0.5-1.0		60 p		57
240-97885-5	ED-01.14-SL01-1.0-1.5		62		67
240-97885-8	ED-01.14-SL05-0.0-0.5		85		79
240-97885-9	ED-01.14-SL05-0.5-1.0		78		67
240-97885-11	ED-01.14-SL05-1.0-1.5		88		90
240-97885-14	ED-00.00-SL03-1.7-2.5		71		70
240-97885-15	ED-00.00-SL03-0.9-1.7	64		63	
240-97885-15 MS	ED-00.00-SL03-0.9-1.7 MS	63		60	
240-97885-15 MSD	ED-00.00-SL03-0.9-1.7 MSD	78		70 p	
240-97885-16	ED-00.00-SL03-0.0-0.9		77		191 X
240-97885-17	ED-00.00-SL04-0.0-0.9	80		79 p	
240-97885-18	ED-00.00-SL04-0.9-1.8	58		53 p	
240-97885-19	ED-00.00-SL04-0.0-0.9-FD	79		70 p	
240-97885-20	ED-00.00-SL04-1.8-2.7	56		55 p	
240-97885-22	ED-00.17-SL02-0.0-0.8-FD	108		203 p X	
240-97885-23	ED-00.17-SL02-0.0-0.8	111		358 p X	
240-97885-24	ED-00.17-SL02-0.8-1.8	100		111	
240-97885-25	ED-00.17-SL02-1.8-2.8		30		43
240-97885-25 MS	ED-00.17-SL02-1.8-2.8 MS		71		113
240-97885-25 MSD	ED-00.17-SL02-1.8-2.8 MSD		56		161 X
240-97885-27	ED-00.41-SL01-0.0-0.5	88		103	
240-97885-28	ED-00.41-SL01-1.0-1.5	66		64	
240-97885-29	ED-00.41-SL01-1.5-2.0	92		84	
240-97885-30	ED-00.41-SL01-1.5-2.0-FD	86		77 p	
240-97885-34	ED-00.19-SL01-1.8-2.3		62		863 X
240-97885-34 MS	ED-00.19-SL01-1.8-2.3 MS		84		542 X
240-97885-34 MSD	ED-00.19-SL01-1.8-2.3 MSD		74		323 X
240-97885-35	ED-00.19-SL01-1.5-1.8	86		93 p	
240-97885-36	ED-00.19-SL01-0.0-0.8	76		213 X	
240-97885-37	ED-00.19-SL01-0.8-1.5	80		125	
240-97885-38	ED-00.19-SL01-0.8-1.5-FD	72		94	
240-97885-41	ED-00.21-SL01-0.0-1.0	73		95	
240-97885-42	ED-00.21-SL01-1.0-2.0	71		69	
240-97885-43	ED-00.21-SL01-1.0-2.0-FD	76		72	
240-97885-46	ED-00.27-SL01-0.0-1.0	91		1369 p X	
240-97885-47	ED-00.27-SL01-1.0-1.9	74		92 p	
240-97885-48	ED-00.27-SL01-1.9-2.8	64		59	
240-97885-50	ED-00.23-SL01-0.7-1.2	78		63 p	
240-97885-51	ED-00.23-SL01-0.7-1.2-FD	82		74	
240-97885-56	ED-01.14-SL04-0.5-1.0	53 p		93 p	
240-97885-57	ED-01.14-SL04-1.5-1.8	56		53 p	
240-97885-58	ED-01.14-SL04-1.0-1.5	70		72	
240-97885-59	ED-01.14-SL04-0.0-0.5	75		98	
240-97885-60	ED-00.36-SL01-0.4-1.0	84		69 p	
240-97885-61	ED-00.00-SL03-0.9-1.7	55		56	
240-97885-62	ED-00.36-SL01-0.0-0.4	73		75 p	
240-97885-65	ED-00.36-SL01-1.5-2.0		79		78
240-97885-65 MS	ED-00.36-SL01-1.5-2.0 MS		91		84

TestAmerica Canton

# Surrogate Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCBP1 (10-132)	DCBP2 (10-132)
240-97885-65 MSD	ED-00.36-SL01-1.5-2.0 MSD		90		76
240-97885-66	ED-00.41-SL01-0.5-1.0	74		71	
240-97885-68	ED-00.36-SL01-1.5-2.0-FD	62		56 p	
240-97885-69	ED-00.36-SL01-0.4-1.0		67		98
240-97885-70	ED-00.19-SL01-1.8-2.3		76		109
240-97885-74	ED-00.29-SL01-1.7-2.7		67		339 X
240-97885-77	ED-00.44-SL01-0.0-0.5		63		193 X
240-97885-78	ED-00.44-SL01-0.5-1.0		63		309 X
240-97885-79	ED-00.44-SL01-1.0-1.5		50		174 X
240-97885-80	ED-00.44-SL01-1.5-1.8	60	59	114 p	277 X
240-97885-81	ED-00.44-SL01-1.8-2.0	52	51	169 X	194 X
240-97885-85	ED-01.14-SL06-0.0-0.5		72		78
240-97885-86	ED-01.14-SL06-0.5-1.0		64		70
240-97885-87	ED-01.14-SL06-1.0-1.5		63		61
240-97885-89	ED-00.31-SL01-0.0-1.0		76 p		71
240-97885-90	ED-00.31-SL01-1.0-2.0		69		70
240-97885-94	ED-00.33-SL01-0.0-0.7		66		66
240-97885-95	ED-00.33-SL01-0.7-1.6		66		70
240-97885-96	ED-00.33-SL01-1.6-2.3		54		66
240-97885-99	ED-00.23-SL01-0.0-0.7		82		65 p
240-97885-100	ED-00.23-SL01-1.2-2.0		70		69
240-97885-103	ED-00.29-SL01-0.0-0.7		64		56
240-97885-104	ED-00.29-SL01-0.7-1.7		77		84
240-97885-105	ED-00.29-SL01-1.7-2.7-FD		81		77
240-97885-106	ED-00.36-SL01-1.0-1.5		71		68
LCS 240-334947/24-A	Lab Control Sample	64		80 p	
LCS 240-334984/10-A	Lab Control Sample	57		70	
LCS 240-335042/24-A	Lab Control Sample		83		91
LCS 240-335210/24-A	Lab Control Sample		59		87
LCS 240-335217/24-A	Lab Control Sample	70		72 p	
LCS 240-335309/17-A	Lab Control Sample		67		107
MB 240-334947/23-A	Method Blank	45		79 p	
MB 240-334984/9-A	Method Blank	65		78	
MB 240-335042/23-A	Method Blank		73		97
MB 240-335210/23-A	Method Blank		67		91
MB 240-335217/23-A	Method Blank	77		72 p	
MB 240-335309/16-A	Method Blank		71		127

**Surrogate Legend**

TCX = Tetrachloro-m-xylene  
 DCBP = DCB Decachlorobiphenyl

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 240-334947/23-A**

**Matrix: Solid**

**Analysis Batch: 335161**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 334947**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	45		14 - 128	07/06/18 07:48	07/08/18 23:41	1
DCB Decachlorobiphenyl	79	p	10 - 132	07/06/18 07:48	07/08/18 23:41	1

**Lab Sample ID: LCS 240-334947/24-A**

**Matrix: Solid**

**Analysis Batch: 335161**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 334947**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1000	638.2		ug/Kg		64	47 - 120
PCB-1260	1000	781.8		ug/Kg		78	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	64		14 - 128
DCB Decachlorobiphenyl	80	p	10 - 132

**Lab Sample ID: MB 240-334984/9-A**

**Matrix: Solid**

**Analysis Batch: 335385**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 334984**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		14 - 128	07/06/18 10:36	07/10/18 12:33	1
DCB Decachlorobiphenyl	78		10 - 132	07/06/18 10:36	07/10/18 12:33	1

TestAmerica Canton

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 240-334984/10-A**

**Matrix: Solid**

**Analysis Batch: 335385**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 334984**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1000	617.7		ug/Kg		62	47 - 120
PCB-1260	1000	740.5		ug/Kg		74	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	57		14 - 128
DCB Decachlorobiphenyl	70		10 - 132

**Lab Sample ID: MB 240-335042/23-A**

**Matrix: Solid**

**Analysis Batch: 335388**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 335042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	07/06/18 14:06	07/10/18 12:35	1
DCB Decachlorobiphenyl	97		10 - 132	07/06/18 14:06	07/10/18 12:35	1

**Lab Sample ID: LCS 240-335042/24-A**

**Matrix: Solid**

**Analysis Batch: 335388**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 335042**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1000	745.9		ug/Kg		75	47 - 120
PCB-1260	1000	767.8		ug/Kg		77	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	83		14 - 128
DCB Decachlorobiphenyl	91		10 - 132

**Lab Sample ID: 240-97885-65 MS**

**Matrix: Solid**

**Analysis Batch: 335388**

**Client Sample ID: ED-00.36-SL01-1.5-2.0 MS**

**Prep Type: Total/NA**

**Prep Batch: 335042**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	25.8	U	1160	894.2		ug/Kg	☼	77	31 - 120
PCB-1260	25.8	U	1160	975.1		ug/Kg	☼	84	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	91		14 - 128

TestAmerica Canton

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 240-97885-65 MS**  
**Matrix: Solid**  
**Analysis Batch: 335388**

**Client Sample ID: ED-00.36-SL01-1.5-2.0 MS**  
**Prep Type: Total/NA**  
**Prep Batch: 335042**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	84		10 - 132

**Lab Sample ID: 240-97885-65 MSD**  
**Matrix: Solid**  
**Analysis Batch: 335388**

**Client Sample ID: ED-00.36-SL01-1.5-2.0 MSD**  
**Prep Type: Total/NA**  
**Prep Batch: 335042**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
PCB-1016	25.8	U	1150	855.7		ug/Kg	☼	75	31 - 120	12	30
PCB-1260	25.8	U	1150	909.1		ug/Kg	☼	79	21 - 122	7	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	90		14 - 128
DCB Decachlorobiphenyl	76		10 - 132

**Lab Sample ID: MB 240-335210/23-A**  
**Matrix: Solid**  
**Analysis Batch: 335576**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 335210**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	67		14 - 128	07/09/18 07:37	07/11/18 08:29	1
DCB Decachlorobiphenyl	91		10 - 132	07/09/18 07:37	07/11/18 08:29	1

**Lab Sample ID: LCS 240-335210/24-A**  
**Matrix: Solid**  
**Analysis Batch: 335576**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 335210**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
PCB-1016	1000	682.9		ug/Kg		68	47 - 120
PCB-1260	1000	823.9		ug/Kg		82	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	59		14 - 128
DCB Decachlorobiphenyl	87		10 - 132

TestAmerica Canton

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 240-335217/23-A**  
**Matrix: Solid**  
**Analysis Batch: 335539**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 335217**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	77		14 - 128	07/09/18 08:19	07/11/18 01:54	1
DCB Decachlorobiphenyl	72	p	10 - 132	07/09/18 08:19	07/11/18 01:54	1

**Lab Sample ID: LCS 240-335217/24-A**  
**Matrix: Solid**  
**Analysis Batch: 335539**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 335217**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	1000	662.0		ug/Kg		66	47 - 120
PCB-1260	1000	759.5		ug/Kg		76	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	70		14 - 128
DCB Decachlorobiphenyl	72	p	10 - 132

**Lab Sample ID: 240-97885-15 MS**  
**Matrix: Solid**  
**Analysis Batch: 335539**

**Client Sample ID: ED-00.00-SL03-0.9-1.7 MS**  
**Prep Type: Total/NA**  
**Prep Batch: 335217**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
PCB-1016	24.4	U F2	1110	603.6		ug/Kg	☼	54	31 - 120
PCB-1260	24.4	U	1110	674.7		ug/Kg	☼	61	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	63		14 - 128
DCB Decachlorobiphenyl	60		10 - 132

**Lab Sample ID: 240-97885-15 MSD**  
**Matrix: Solid**  
**Analysis Batch: 335539**

**Client Sample ID: ED-00.00-SL03-0.9-1.7 MSD**  
**Prep Type: Total/NA**  
**Prep Batch: 335217**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	
				Result	Qualifier					RPD	Limit
PCB-1016	24.4	U F2	1210	824.6	F2	ug/Kg	☼	68	31 - 120	31	30
PCB-1260	24.4	U	1210	897.8		ug/Kg	☼	74	21 - 122	28	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	78		14 - 128

TestAmerica Canton

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 240-97885-15 MSD**  
**Matrix: Solid**  
**Analysis Batch: 335539**

**Client Sample ID: ED-00.00-SL03-0.9-1.7 MSD**  
**Prep Type: Total/NA**  
**Prep Batch: 335217**

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	70	p	10 - 132

**Lab Sample ID: MB 240-335309/16-A**  
**Matrix: Solid**  
**Analysis Batch: 335509**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 335309**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	71		14 - 128	07/09/18 14:18	07/11/18 04:29	1
DCB Decachlorobiphenyl	127		10 - 132	07/09/18 14:18	07/11/18 04:29	1

**Lab Sample ID: LCS 240-335309/17-A**  
**Matrix: Solid**  
**Analysis Batch: 335509**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 335309**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1000	632.2		ug/Kg		63	47 - 120
PCB-1260	1000	728.8		ug/Kg		73	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	67		14 - 128
DCB Decachlorobiphenyl	107		10 - 132

**Lab Sample ID: 240-97885-25 MS**  
**Matrix: Solid**  
**Analysis Batch: 335509**

**Client Sample ID: ED-00.17-SL02-1.8-2.8 MS**  
**Prep Type: Total/NA**  
**Prep Batch: 335309**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	28.8	U	1270	855.2		ug/Kg	☼	67	31 - 120
PCB-1260	28.8	U	1270	969.3		ug/Kg	☼	76	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	71		14 - 128
DCB Decachlorobiphenyl	113		10 - 132

# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 240-97885-25 MSD**

**Matrix: Solid**  
**Analysis Batch: 335509**

**Client Sample ID: ED-00.17-SL02-1.8-2.8 MSD**

**Prep Type: Total/NA**  
**Prep Batch: 335309**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	28.8	U	1270	666.1		ug/Kg	☼	52	31 - 120	25	30
PCB-1260	28.8	U	1270	742.2		ug/Kg	☼	58	21 - 122	25	30
		<b>MSD MSD</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
Tetrachloro-m-xylene	56		14 - 128								
DCB Decachlorobiphenyl	161	X	10 - 132								

**Lab Sample ID: 240-97885-34 MS**

**Matrix: Solid**  
**Analysis Batch: 335509**

**Client Sample ID: ED-00.19-SL01-1.8-2.3 MS**

**Prep Type: Total/NA**  
**Prep Batch: 335309**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	124	U	1210	1352		ug/Kg	☼	112	31 - 120		
PCB-1260	124	U	1210	1163		ug/Kg	☼	96	21 - 122		
		<b>MS MS</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
Tetrachloro-m-xylene	84		14 - 128								
DCB Decachlorobiphenyl	542	X	10 - 132								

**Lab Sample ID: 240-97885-34 MSD**

**Matrix: Solid**  
**Analysis Batch: 335509**

**Client Sample ID: ED-00.19-SL01-1.8-2.3 MSD**

**Prep Type: Total/NA**  
**Prep Batch: 335309**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	124	U	1180	1221		ug/Kg	☼	103	31 - 120	10	30
PCB-1260	124	U	1180	1004		ug/Kg	☼	85	21 - 122	15	30
		<b>MSD MSD</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
Tetrachloro-m-xylene	74		14 - 128								
DCB Decachlorobiphenyl	323	X	10 - 132								

## Method: Moisture - Percent Moisture

**Lab Sample ID: 240-97885-9 DU**

**Matrix: Solid**  
**Analysis Batch: 334355**

**Client Sample ID: ED-01.14-SL05-0.5-1.0**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	79.8		81.5		%		2	20
Percent Moisture	20.2		18.5		%		9	20

**Lab Sample ID: 240-97885-15 DU**

**Matrix: Solid**  
**Analysis Batch: 334355**

**Client Sample ID: ED-00.00-SL03-0.9-1.7 DUP**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	87.2		85.0		%		3	20

TestAmerica Canton



# QC Sample Results

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Method: Moisture - Percent Moisture (Continued)

**Lab Sample ID: 240-97885-15 DU**  
**Matrix: Solid**  
**Analysis Batch: 334355**

**Client Sample ID: ED-00.00-SL03-0.9-1.7 DUP**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12.8		15.0		%		16	20

**Lab Sample ID: 240-97885-25 DU**  
**Matrix: Solid**  
**Analysis Batch: 334355**

**Client Sample ID: ED-00.17-SL02-1.8-2.8 DUP**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	77.2		75.7		%		2	20
Percent Moisture	22.8		24.3		%		7	20

**Lab Sample ID: 240-97885-34 DU**  
**Matrix: Solid**  
**Analysis Batch: 334355**

**Client Sample ID: ED-00.19-SL01-1.8-2.3 DUP**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	86.5		89.8		%		4	20
Percent Moisture	13.5		10.2	F3	%		27	20

**Lab Sample ID: 240-97885-58 DU**  
**Matrix: Solid**  
**Analysis Batch: 334355**

**Client Sample ID: ED-01.14-SL04-1.0-1.5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	83.2		83.4		%		0.3	20
Percent Moisture	16.8		16.6		%		2	20

**Lab Sample ID: 240-97885-65 DU**  
**Matrix: Solid**  
**Analysis Batch: 334355**

**Client Sample ID: ED-00.36-SL01-1.5-2.0 DUP**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	86.9		82.8		%		5	20
Percent Moisture	13.1		17.2	F3	%		27	20

**Lab Sample ID: 240-97885-66 DU**  
**Matrix: Solid**  
**Analysis Batch: 334355**

**Client Sample ID: ED-00.41-SL01-0.5-1.0**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	87.9		88.6		%		0.8	20
Percent Moisture	12.1		11.4		%		6	20

**Lab Sample ID: 240-97885-106 DU**  
**Matrix: Solid**  
**Analysis Batch: 334355**

**Client Sample ID: ED-00.36-SL01-1.0-1.5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	83.2		83.8		%		0.7	20
Percent Moisture	16.8		16.2		%		3	20

TestAmerica Canton

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## GC Semi VOA

### Prep Batch: 334947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-35	ED-00.19-SL01-1.5-1.8	Total/NA	Solid	3540C	
240-97885-36	ED-00.19-SL01-0.0-0.8	Total/NA	Solid	3540C	
240-97885-37	ED-00.19-SL01-0.8-1.5	Total/NA	Solid	3540C	
240-97885-38	ED-00.19-SL01-0.8-1.5-FD	Total/NA	Solid	3540C	
240-97885-41	ED-00.21-SL01-0.0-1.0	Total/NA	Solid	3540C	
MB 240-334947/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-334947/24-A	Lab Control Sample	Total/NA	Solid	3540C	

### Prep Batch: 334984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-42	ED-00.21-SL01-1.0-2.0	Total/NA	Solid	3540C	
240-97885-43	ED-00.21-SL01-1.0-2.0-FD	Total/NA	Solid	3540C	
240-97885-46	ED-00.27-SL01-0.0-1.0	Total/NA	Solid	3540C	
240-97885-47	ED-00.27-SL01-1.0-1.9	Total/NA	Solid	3540C	
240-97885-48	ED-00.27-SL01-1.9-2.8	Total/NA	Solid	3540C	
240-97885-50	ED-00.23-SL01-0.7-1.2	Total/NA	Solid	3540C	
240-97885-51	ED-00.23-SL01-0.7-1.2-FD	Total/NA	Solid	3540C	
240-97885-56	ED-01.14-SL04-0.5-1.0	Total/NA	Solid	3540C	
MB 240-334984/9-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-334984/10-A	Lab Control Sample	Total/NA	Solid	3540C	

### Prep Batch: 335042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-2	ED-00.51-SL06-1.0-2.0	Total/NA	Solid	3540C	
240-97885-4	ED-01.14-SL01-0.5-1.0	Total/NA	Solid	3540C	
240-97885-5	ED-01.14-SL01-1.0-1.5	Total/NA	Solid	3540C	
240-97885-8	ED-01.14-SL05-0.0-0.5	Total/NA	Solid	3540C	
240-97885-9	ED-01.14-SL05-0.5-1.0	Total/NA	Solid	3540C	
240-97885-65	ED-00.36-SL01-1.5-2.0	Total/NA	Solid	3540C	
240-97885-85	ED-01.14-SL06-0.0-0.5	Total/NA	Solid	3540C	
240-97885-86	ED-01.14-SL06-0.5-1.0	Total/NA	Solid	3540C	
240-97885-87	ED-01.14-SL06-1.0-1.5	Total/NA	Solid	3540C	
240-97885-89	ED-00.31-SL01-0.0-1.0	Total/NA	Solid	3540C	
240-97885-90	ED-00.31-SL01-1.0-2.0	Total/NA	Solid	3540C	
240-97885-94	ED-00.33-SL01-0.0-0.7	Total/NA	Solid	3540C	
240-97885-95	ED-00.33-SL01-0.7-1.6	Total/NA	Solid	3540C	
240-97885-96	ED-00.33-SL01-1.6-2.3	Total/NA	Solid	3540C	
240-97885-99	ED-00.23-SL01-0.0-0.7	Total/NA	Solid	3540C	
240-97885-100	ED-00.23-SL01-1.2-2.0	Total/NA	Solid	3540C	
240-97885-103	ED-00.29-SL01-0.0-0.7	Total/NA	Solid	3540C	
240-97885-104	ED-00.29-SL01-0.7-1.7	Total/NA	Solid	3540C	
240-97885-105	ED-00.29-SL01-1.7-2.7-FD	Total/NA	Solid	3540C	
240-97885-106	ED-00.36-SL01-1.0-1.5	Total/NA	Solid	3540C	
MB 240-335042/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-335042/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-97885-65 MS	ED-00.36-SL01-1.5-2.0 MS	Total/NA	Solid	3540C	
240-97885-65 MSD	ED-00.36-SL01-1.5-2.0 MSD	Total/NA	Solid	3540C	

### Analysis Batch: 335161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-35	ED-00.19-SL01-1.5-1.8	Total/NA	Solid	8082A	334947

TestAmerica Canton

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## GC Semi VOA (Continued)

### Analysis Batch: 335161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-36	ED-00.19-SL01-0.0-0.8	Total/NA	Solid	8082A	334947
240-97885-37	ED-00.19-SL01-0.8-1.5	Total/NA	Solid	8082A	334947
240-97885-38	ED-00.19-SL01-0.8-1.5-FD	Total/NA	Solid	8082A	334947
240-97885-41	ED-00.21-SL01-0.0-1.0	Total/NA	Solid	8082A	334947
MB 240-334947/23-A	Method Blank	Total/NA	Solid	8082A	334947
LCS 240-334947/24-A	Lab Control Sample	Total/NA	Solid	8082A	334947

### Prep Batch: 335210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-11	ED-01.14-SL05-1.0-1.5	Total/NA	Solid	3540C	
240-97885-14	ED-00.00-SL03-1.7-2.5	Total/NA	Solid	3540C	
240-97885-16	ED-00.00-SL03-0.0-0.9	Total/NA	Solid	3540C	
MB 240-335210/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-335210/24-A	Lab Control Sample	Total/NA	Solid	3540C	

### Prep Batch: 335217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-15	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	3540C	
240-97885-17	ED-00.00-SL04-0.0-0.9	Total/NA	Solid	3540C	
240-97885-18	ED-00.00-SL04-0.9-1.8	Total/NA	Solid	3540C	
240-97885-19	ED-00.00-SL04-0.0-0.9-FD	Total/NA	Solid	3540C	
240-97885-20	ED-00.00-SL04-1.8-2.7	Total/NA	Solid	3540C	
240-97885-22	ED-00.17-SL02-0.0-0.8-FD	Total/NA	Solid	3540C	
240-97885-23	ED-00.17-SL02-0.0-0.8	Total/NA	Solid	3540C	
240-97885-24	ED-00.17-SL02-0.8-1.8	Total/NA	Solid	3540C	
240-97885-27	ED-00.41-SL01-0.0-0.5	Total/NA	Solid	3540C	
240-97885-28	ED-00.41-SL01-1.0-1.5	Total/NA	Solid	3540C	
240-97885-29	ED-00.41-SL01-1.5-2.0	Total/NA	Solid	3540C	
240-97885-30	ED-00.41-SL01-1.5-2.0-FD	Total/NA	Solid	3540C	
240-97885-57	ED-01.14-SL04-1.5-1.8	Total/NA	Solid	3540C	
240-97885-58	ED-01.14-SL04-1.0-1.5	Total/NA	Solid	3540C	
240-97885-59	ED-01.14-SL04-0.0-0.5	Total/NA	Solid	3540C	
240-97885-60	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	3540C	
240-97885-61	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	3540C	
240-97885-62	ED-00.36-SL01-0.0-0.4	Total/NA	Solid	3540C	
240-97885-66	ED-00.41-SL01-0.5-1.0	Total/NA	Solid	3540C	
240-97885-68	ED-00.36-SL01-1.5-2.0-FD	Total/NA	Solid	3540C	
MB 240-335217/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-335217/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-97885-15 MS	ED-00.00-SL03-0.9-1.7 MS	Total/NA	Solid	3540C	
240-97885-15 MSD	ED-00.00-SL03-0.9-1.7 MSD	Total/NA	Solid	3540C	

### Prep Batch: 335309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-25	ED-00.17-SL02-1.8-2.8	Total/NA	Solid	3540C	
240-97885-34	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	3540C	
240-97885-69	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	3540C	
240-97885-70	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	3540C	
240-97885-74	ED-00.29-SL01-1.7-2.7	Total/NA	Solid	3540C	
240-97885-77	ED-00.44-SL01-0.0-0.5	Total/NA	Solid	3540C	
240-97885-78	ED-00.44-SL01-0.5-1.0	Total/NA	Solid	3540C	

TestAmerica Canton

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## GC Semi VOA (Continued)

### Prep Batch: 335309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-79	ED-00.44-SL01-1.0-1.5	Total/NA	Solid	3540C	
240-97885-80	ED-00.44-SL01-1.5-1.8	Total/NA	Solid	3540C	
240-97885-81	ED-00.44-SL01-1.8-2.0	Total/NA	Solid	3540C	
MB 240-335309/16-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-335309/17-A	Lab Control Sample	Total/NA	Solid	3540C	
240-97885-25 MS	ED-00.17-SL02-1.8-2.8 MS	Total/NA	Solid	3540C	
240-97885-25 MSD	ED-00.17-SL02-1.8-2.8 MSD	Total/NA	Solid	3540C	
240-97885-34 MS	ED-00.19-SL01-1.8-2.3 MS	Total/NA	Solid	3540C	
240-97885-34 MSD	ED-00.19-SL01-1.8-2.3 MSD	Total/NA	Solid	3540C	

### Analysis Batch: 335385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-42	ED-00.21-SL01-1.0-2.0	Total/NA	Solid	8082A	334984
240-97885-43	ED-00.21-SL01-1.0-2.0-FD	Total/NA	Solid	8082A	334984
240-97885-46	ED-00.27-SL01-0.0-1.0	Total/NA	Solid	8082A	334984
240-97885-47	ED-00.27-SL01-1.0-1.9	Total/NA	Solid	8082A	334984
240-97885-48	ED-00.27-SL01-1.9-2.8	Total/NA	Solid	8082A	334984
240-97885-50	ED-00.23-SL01-0.7-1.2	Total/NA	Solid	8082A	334984
240-97885-51	ED-00.23-SL01-0.7-1.2-FD	Total/NA	Solid	8082A	334984
240-97885-56	ED-01.14-SL04-0.5-1.0	Total/NA	Solid	8082A	334984
MB 240-334984/9-A	Method Blank	Total/NA	Solid	8082A	334984
LCS 240-334984/10-A	Lab Control Sample	Total/NA	Solid	8082A	334984

### Analysis Batch: 335388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-2	ED-00.51-SL06-1.0-2.0	Total/NA	Solid	8082A	335042
240-97885-4	ED-01.14-SL01-0.5-1.0	Total/NA	Solid	8082A	335042
240-97885-5	ED-01.14-SL01-1.0-1.5	Total/NA	Solid	8082A	335042
240-97885-8	ED-01.14-SL05-0.0-0.5	Total/NA	Solid	8082A	335042
240-97885-9	ED-01.14-SL05-0.5-1.0	Total/NA	Solid	8082A	335042
240-97885-65	ED-00.36-SL01-1.5-2.0	Total/NA	Solid	8082A	335042
240-97885-85	ED-01.14-SL06-0.0-0.5	Total/NA	Solid	8082A	335042
240-97885-86	ED-01.14-SL06-0.5-1.0	Total/NA	Solid	8082A	335042
240-97885-87	ED-01.14-SL06-1.0-1.5	Total/NA	Solid	8082A	335042
240-97885-89	ED-00.31-SL01-0.0-1.0	Total/NA	Solid	8082A	335042
240-97885-90	ED-00.31-SL01-1.0-2.0	Total/NA	Solid	8082A	335042
240-97885-94	ED-00.33-SL01-0.0-0.7	Total/NA	Solid	8082A	335042
240-97885-95	ED-00.33-SL01-0.7-1.6	Total/NA	Solid	8082A	335042
240-97885-96	ED-00.33-SL01-1.6-2.3	Total/NA	Solid	8082A	335042
240-97885-99	ED-00.23-SL01-0.0-0.7	Total/NA	Solid	8082A	335042
240-97885-100	ED-00.23-SL01-1.2-2.0	Total/NA	Solid	8082A	335042
240-97885-103	ED-00.29-SL01-0.0-0.7	Total/NA	Solid	8082A	335042
240-97885-104	ED-00.29-SL01-0.7-1.7	Total/NA	Solid	8082A	335042
240-97885-105	ED-00.29-SL01-1.7-2.7-FD	Total/NA	Solid	8082A	335042
240-97885-106	ED-00.36-SL01-1.0-1.5	Total/NA	Solid	8082A	335042
MB 240-335042/23-A	Method Blank	Total/NA	Solid	8082A	335042
LCS 240-335042/24-A	Lab Control Sample	Total/NA	Solid	8082A	335042
240-97885-65 MS	ED-00.36-SL01-1.5-2.0 MS	Total/NA	Solid	8082A	335042
240-97885-65 MSD	ED-00.36-SL01-1.5-2.0 MSD	Total/NA	Solid	8082A	335042

TestAmerica Canton

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## GC Semi VOA (Continued)

### Analysis Batch: 335509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-25	ED-00.17-SL02-1.8-2.8	Total/NA	Solid	8082A	335309
240-97885-34	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	8082A	335309
240-97885-69	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	8082A	335309
240-97885-70	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	8082A	335309
240-97885-74	ED-00.29-SL01-1.7-2.7	Total/NA	Solid	8082A	335309
240-97885-77	ED-00.44-SL01-0.0-0.5	Total/NA	Solid	8082A	335309
240-97885-78	ED-00.44-SL01-0.5-1.0	Total/NA	Solid	8082A	335309
240-97885-79	ED-00.44-SL01-1.0-1.5	Total/NA	Solid	8082A	335309
240-97885-80	ED-00.44-SL01-1.5-1.8	Total/NA	Solid	8082A	335309
240-97885-81	ED-00.44-SL01-1.8-2.0	Total/NA	Solid	8082A	335309
MB 240-335309/16-A	Method Blank	Total/NA	Solid	8082A	335309
LCS 240-335309/17-A	Lab Control Sample	Total/NA	Solid	8082A	335309
240-97885-25 MS	ED-00.17-SL02-1.8-2.8 MS	Total/NA	Solid	8082A	335309
240-97885-25 MSD	ED-00.17-SL02-1.8-2.8 MSD	Total/NA	Solid	8082A	335309
240-97885-34 MS	ED-00.19-SL01-1.8-2.3 MS	Total/NA	Solid	8082A	335309
240-97885-34 MSD	ED-00.19-SL01-1.8-2.3 MSD	Total/NA	Solid	8082A	335309

### Analysis Batch: 335539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-15	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	8082A	335217
240-97885-17	ED-00.00-SL04-0.0-0.9	Total/NA	Solid	8082A	335217
240-97885-18	ED-00.00-SL04-0.9-1.8	Total/NA	Solid	8082A	335217
240-97885-19	ED-00.00-SL04-0.0-0.9-FD	Total/NA	Solid	8082A	335217
240-97885-20	ED-00.00-SL04-1.8-2.7	Total/NA	Solid	8082A	335217
240-97885-22	ED-00.17-SL02-0.0-0.8-FD	Total/NA	Solid	8082A	335217
240-97885-23	ED-00.17-SL02-0.0-0.8	Total/NA	Solid	8082A	335217
240-97885-24	ED-00.17-SL02-0.8-1.8	Total/NA	Solid	8082A	335217
240-97885-27	ED-00.41-SL01-0.0-0.5	Total/NA	Solid	8082A	335217
240-97885-28	ED-00.41-SL01-1.0-1.5	Total/NA	Solid	8082A	335217
240-97885-29	ED-00.41-SL01-1.5-2.0	Total/NA	Solid	8082A	335217
240-97885-30	ED-00.41-SL01-1.5-2.0-FD	Total/NA	Solid	8082A	335217
240-97885-57	ED-01.14-SL04-1.5-1.8	Total/NA	Solid	8082A	335217
240-97885-58	ED-01.14-SL04-1.0-1.5	Total/NA	Solid	8082A	335217
240-97885-59	ED-01.14-SL04-0.0-0.5	Total/NA	Solid	8082A	335217
240-97885-60	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	8082A	335217
240-97885-61	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	8082A	335217
240-97885-62	ED-00.36-SL01-0.0-0.4	Total/NA	Solid	8082A	335217
240-97885-66	ED-00.41-SL01-0.5-1.0	Total/NA	Solid	8082A	335217
240-97885-68	ED-00.36-SL01-1.5-2.0-FD	Total/NA	Solid	8082A	335217
MB 240-335217/23-A	Method Blank	Total/NA	Solid	8082A	335217
LCS 240-335217/24-A	Lab Control Sample	Total/NA	Solid	8082A	335217
240-97885-15 MS	ED-00.00-SL03-0.9-1.7 MS	Total/NA	Solid	8082A	335217
240-97885-15 MSD	ED-00.00-SL03-0.9-1.7 MSD	Total/NA	Solid	8082A	335217

### Analysis Batch: 335576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-11	ED-01.14-SL05-1.0-1.5	Total/NA	Solid	8082A	335210
240-97885-14	ED-00.00-SL03-1.7-2.5	Total/NA	Solid	8082A	335210
240-97885-16	ED-00.00-SL03-0.0-0.9	Total/NA	Solid	8082A	335210
MB 240-335210/23-A	Method Blank	Total/NA	Solid	8082A	335210
LCS 240-335210/24-A	Lab Control Sample	Total/NA	Solid	8082A	335210

TestAmerica Canton

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## General Chemistry

Analysis Batch: 334355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-2	ED-00.51-SL06-1.0-2.0	Total/NA	Solid	Moisture	
240-97885-4	ED-01.14-SL01-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-5	ED-01.14-SL01-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-8	ED-01.14-SL05-0.0-0.5	Total/NA	Solid	Moisture	
240-97885-9	ED-01.14-SL05-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-11	ED-01.14-SL05-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-14	ED-00.00-SL03-1.7-2.5	Total/NA	Solid	Moisture	
240-97885-15	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	Moisture	
240-97885-16	ED-00.00-SL03-0.0-0.9	Total/NA	Solid	Moisture	
240-97885-17	ED-00.00-SL04-0.0-0.9	Total/NA	Solid	Moisture	
240-97885-18	ED-00.00-SL04-0.9-1.8	Total/NA	Solid	Moisture	
240-97885-19	ED-00.00-SL04-0.0-0.9-FD	Total/NA	Solid	Moisture	
240-97885-20	ED-00.00-SL04-1.8-2.7	Total/NA	Solid	Moisture	
240-97885-22	ED-00.17-SL02-0.0-0.8-FD	Total/NA	Solid	Moisture	
240-97885-23	ED-00.17-SL02-0.0-0.8	Total/NA	Solid	Moisture	
240-97885-24	ED-00.17-SL02-0.8-1.8	Total/NA	Solid	Moisture	
240-97885-25	ED-00.17-SL02-1.8-2.8	Total/NA	Solid	Moisture	
240-97885-27	ED-00.41-SL01-0.0-0.5	Total/NA	Solid	Moisture	
240-97885-28	ED-00.41-SL01-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-29	ED-00.41-SL01-1.5-2.0	Total/NA	Solid	Moisture	
240-97885-30	ED-00.41-SL01-1.5-2.0-FD	Total/NA	Solid	Moisture	
240-97885-34	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	Moisture	
240-97885-35	ED-00.19-SL01-1.5-1.8	Total/NA	Solid	Moisture	
240-97885-36	ED-00.19-SL01-0.0-0.8	Total/NA	Solid	Moisture	
240-97885-37	ED-00.19-SL01-0.8-1.5	Total/NA	Solid	Moisture	
240-97885-38	ED-00.19-SL01-0.8-1.5-FD	Total/NA	Solid	Moisture	
240-97885-41	ED-00.21-SL01-0.0-1.0	Total/NA	Solid	Moisture	
240-97885-42	ED-00.21-SL01-1.0-2.0	Total/NA	Solid	Moisture	
240-97885-43	ED-00.21-SL01-1.0-2.0-FD	Total/NA	Solid	Moisture	
240-97885-46	ED-00.27-SL01-0.0-1.0	Total/NA	Solid	Moisture	
240-97885-47	ED-00.27-SL01-1.0-1.9	Total/NA	Solid	Moisture	
240-97885-48	ED-00.27-SL01-1.9-2.8	Total/NA	Solid	Moisture	
240-97885-50	ED-00.23-SL01-0.7-1.2	Total/NA	Solid	Moisture	
240-97885-51	ED-00.23-SL01-0.7-1.2-FD	Total/NA	Solid	Moisture	
240-97885-56	ED-01.14-SL04-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-57	ED-01.14-SL04-1.5-1.8	Total/NA	Solid	Moisture	
240-97885-58	ED-01.14-SL04-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-59	ED-01.14-SL04-0.0-0.5	Total/NA	Solid	Moisture	
240-97885-60	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	Moisture	
240-97885-61	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	Moisture	
240-97885-62	ED-00.36-SL01-0.0-0.4	Total/NA	Solid	Moisture	
240-97885-65	ED-00.36-SL01-1.5-2.0	Total/NA	Solid	Moisture	
240-97885-66	ED-00.41-SL01-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-68	ED-00.36-SL01-1.5-2.0-FD	Total/NA	Solid	Moisture	
240-97885-69	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	Moisture	
240-97885-70	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	Moisture	
240-97885-74	ED-00.29-SL01-1.7-2.7	Total/NA	Solid	Moisture	
240-97885-77	ED-00.44-SL01-0.0-0.5	Total/NA	Solid	Moisture	
240-97885-78	ED-00.44-SL01-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-79	ED-00.44-SL01-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-80	ED-00.44-SL01-1.5-1.8	Total/NA	Solid	Moisture	

TestAmerica Canton

# QC Association Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## General Chemistry (Continued)

### Analysis Batch: 334355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-81	ED-00.44-SL01-1.8-2.0	Total/NA	Solid	Moisture	
240-97885-85	ED-01.14-SL06-0.0-0.5	Total/NA	Solid	Moisture	
240-97885-86	ED-01.14-SL06-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-87	ED-01.14-SL06-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-89	ED-00.31-SL01-0.0-1.0	Total/NA	Solid	Moisture	
240-97885-90	ED-00.31-SL01-1.0-2.0	Total/NA	Solid	Moisture	
240-97885-94	ED-00.33-SL01-0.0-0.7	Total/NA	Solid	Moisture	
240-97885-95	ED-00.33-SL01-0.7-1.6	Total/NA	Solid	Moisture	
240-97885-96	ED-00.33-SL01-1.6-2.3	Total/NA	Solid	Moisture	
240-97885-99	ED-00.23-SL01-0.0-0.7	Total/NA	Solid	Moisture	
240-97885-100	ED-00.23-SL01-1.2-2.0	Total/NA	Solid	Moisture	
240-97885-103	ED-00.29-SL01-0.0-0.7	Total/NA	Solid	Moisture	
240-97885-104	ED-00.29-SL01-0.7-1.7	Total/NA	Solid	Moisture	
240-97885-105	ED-00.29-SL01-1.7-2.7-FD	Total/NA	Solid	Moisture	
240-97885-106	ED-00.36-SL01-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-9 DU	ED-01.14-SL05-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-15 DU	ED-00.00-SL03-0.9-1.7 DUP	Total/NA	Solid	Moisture	
240-97885-25 DU	ED-00.17-SL02-1.8-2.8 DUP	Total/NA	Solid	Moisture	
240-97885-34 DU	ED-00.19-SL01-1.8-2.3 DUP	Total/NA	Solid	Moisture	
240-97885-58 DU	ED-01.14-SL04-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-65 DU	ED-00.36-SL01-1.5-2.0 DUP	Total/NA	Solid	Moisture	
240-97885-66 DU	ED-00.41-SL01-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-106 DU	ED-00.36-SL01-1.0-1.5	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.51-SL06-1.0-2.0**

Date Collected: 06/16/18 16:40

Date Received: 06/27/18 09:50

**Lab Sample ID: 240-97885-2**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

**Client Sample ID: ED-00.51-SL06-1.0-2.0**

Date Collected: 06/16/18 16:40

Date Received: 06/27/18 09:50

**Lab Sample ID: 240-97885-2**

Matrix: Solid

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		5	335388	07/10/18 09:58	CSC	TAL CAN

**Client Sample ID: ED-01.14-SL01-0.5-1.0**

Date Collected: 06/15/18 18:12

Date Received: 06/27/18 09:50

**Lab Sample ID: 240-97885-4**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL01-0.5-1.0**

Date Collected: 06/15/18 18:12

Date Received: 06/27/18 09:50

**Lab Sample ID: 240-97885-4**

Matrix: Solid

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		10	335388	07/10/18 10:15	CSC	TAL CAN

**Client Sample ID: ED-01.14-SL01-1.0-1.5**

Date Collected: 06/15/18 18:17

Date Received: 06/27/18 09:50

**Lab Sample ID: 240-97885-5**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL01-1.0-1.5**

Date Collected: 06/15/18 18:17

Date Received: 06/27/18 09:50

**Lab Sample ID: 240-97885-5**

Matrix: Solid

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		10	335388	07/10/18 10:33	CSC	TAL CAN

TestAmerica Canton



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL05-0.0-0.5**

**Lab Sample ID: 240-97885-8**

Date Collected: 06/15/18 18:26

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL05-0.0-0.5**

**Lab Sample ID: 240-97885-8**

Date Collected: 06/15/18 18:26

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 10:50	CSC	TAL CAN

**Client Sample ID: ED-01.14-SL05-0.5-1.0**

**Lab Sample ID: 240-97885-9**

Date Collected: 06/15/18 18:27

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL05-0.5-1.0**

**Lab Sample ID: 240-97885-9**

Date Collected: 06/15/18 18:27

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 11:08	CSC	TAL CAN

**Client Sample ID: ED-01.14-SL05-1.0-1.5**

**Lab Sample ID: 240-97885-11**

Date Collected: 06/15/18 18:30

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL05-1.0-1.5**

**Lab Sample ID: 240-97885-11**

Date Collected: 06/15/18 18:30

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335210	07/09/18 07:37	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335576	07/11/18 12:21	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL03-1.7-2.5**

**Lab Sample ID: 240-97885-14**

Date Collected: 06/14/18 15:52

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

**Client Sample ID: ED-00.00-SL03-1.7-2.5**

**Lab Sample ID: 240-97885-14**

Date Collected: 06/14/18 15:52

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335210	07/09/18 07:37	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335576	07/11/18 12:40	CSC	TAL CAN

**Client Sample ID: ED-00.00-SL03-0.9-1.7**

**Lab Sample ID: 240-97885-15**

Date Collected: 06/14/18 15:50

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

**Client Sample ID: ED-00.00-SL03-0.9-1.7**

**Lab Sample ID: 240-97885-15**

Date Collected: 06/14/18 15:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/10/18 21:01	KMG	TAL CAN

**Client Sample ID: ED-00.00-SL03-0.0-0.9**

**Lab Sample ID: 240-97885-16**

Date Collected: 06/14/18 15:47

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

**Client Sample ID: ED-00.00-SL03-0.0-0.9**

**Lab Sample ID: 240-97885-16**

Date Collected: 06/14/18 15:47

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335210	07/09/18 07:37	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335576	07/11/18 12:58	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL04-0.0-0.9**

**Lab Sample ID: 240-97885-17**

Date Collected: 06/14/18 16:10

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.00-SL04-0.0-0.9**

**Lab Sample ID: 240-97885-17**

Date Collected: 06/14/18 16:10

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/10/18 22:00	KMG	TAL CAN

**Client Sample ID: ED-00.00-SL04-0.9-1.8**

**Lab Sample ID: 240-97885-18**

Date Collected: 06/14/18 16:15

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.00-SL04-0.9-1.8**

**Lab Sample ID: 240-97885-18**

Date Collected: 06/14/18 16:15

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/10/18 22:19	KMG	TAL CAN

**Client Sample ID: ED-00.00-SL04-0.0-0.9-FD**

**Lab Sample ID: 240-97885-19**

Date Collected: 06/14/18 16:10

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.00-SL04-0.0-0.9-FD**

**Lab Sample ID: 240-97885-19**

Date Collected: 06/14/18 16:10

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/10/18 22:39	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL04-1.8-2.7**

**Lab Sample ID: 240-97885-20**

Date Collected: 06/14/18 16:19

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.00-SL04-1.8-2.7**

**Lab Sample ID: 240-97885-20**

Date Collected: 06/14/18 16:19

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/10/18 22:58	KMG	TAL CAN

**Client Sample ID: ED-00.17-SL02-0.0-0.8-FD**

**Lab Sample ID: 240-97885-22**

Date Collected: 06/14/18 15:20

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.17-SL02-0.0-0.8-FD**

**Lab Sample ID: 240-97885-22**

Date Collected: 06/14/18 15:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		50	335539	07/10/18 23:18	KMG	TAL CAN

**Client Sample ID: ED-00.17-SL02-0.0-0.8**

**Lab Sample ID: 240-97885-23**

Date Collected: 06/14/18 15:20

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.17-SL02-0.0-0.8**

**Lab Sample ID: 240-97885-23**

Date Collected: 06/14/18 15:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		100	335539	07/10/18 23:37	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.17-SL02-0.8-1.8**

**Lab Sample ID: 240-97885-24**

Date Collected: 06/14/18 15:22

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.17-SL02-0.8-1.8**

**Lab Sample ID: 240-97885-24**

Date Collected: 06/14/18 15:22

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335539	07/10/18 23:57	KMG	TAL CAN

**Client Sample ID: ED-00.17-SL02-1.8-2.8**

**Lab Sample ID: 240-97885-25**

Date Collected: 06/14/18 15:24

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.17-SL02-1.8-2.8**

**Lab Sample ID: 240-97885-25**

Date Collected: 06/14/18 15:24

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/10/18 23:25	LSH	TAL CAN

**Client Sample ID: ED-00.41-SL01-0.0-0.5**

**Lab Sample ID: 240-97885-27**

Date Collected: 06/14/18 10:03

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.41-SL01-0.0-0.5**

**Lab Sample ID: 240-97885-27**

Date Collected: 06/14/18 10:03

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		20	335539	07/11/18 00:16	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.41-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-28**

Date Collected: 06/14/18 10:06

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.41-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-28**

Date Collected: 06/14/18 10:06

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 00:36	KMG	TAL CAN

**Client Sample ID: ED-00.41-SL01-1.5-2.0**

**Lab Sample ID: 240-97885-29**

Date Collected: 06/14/18 10:08

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.41-SL01-1.5-2.0**

**Lab Sample ID: 240-97885-29**

Date Collected: 06/14/18 10:08

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 00:55	KMG	TAL CAN

**Client Sample ID: ED-00.41-SL01-1.5-2.0-FD**

**Lab Sample ID: 240-97885-30**

Date Collected: 06/14/18 10:08

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.41-SL01-1.5-2.0-FD**

**Lab Sample ID: 240-97885-30**

Date Collected: 06/14/18 10:08

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 01:15	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.19-SL01-1.8-2.3**

**Lab Sample ID: 240-97885-34**

Date Collected: 06/14/18 14:48

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.19-SL01-1.8-2.3**

**Lab Sample ID: 240-97885-34**

Date Collected: 06/14/18 14:48

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335509	07/11/18 03:39	LSH	TAL CAN

**Client Sample ID: ED-00.19-SL01-1.5-1.8**

**Lab Sample ID: 240-97885-35**

Date Collected: 06/14/18 14:46

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.19-SL01-1.5-1.8**

**Lab Sample ID: 240-97885-35**

Date Collected: 06/14/18 14:46

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334947	07/06/18 07:48	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335161	07/08/18 22:17	LSH	TAL CAN

**Client Sample ID: ED-00.19-SL01-0.0-0.8**

**Lab Sample ID: 240-97885-36**

Date Collected: 06/14/18 04:40

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.19-SL01-0.0-0.8**

**Lab Sample ID: 240-97885-36**

Date Collected: 06/14/18 04:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334947	07/06/18 07:48	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335161	07/08/18 22:34	LSH	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.19-SL01-0.8-1.5**

**Lab Sample ID: 240-97885-37**

Date Collected: 06/14/18 14:42

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.19-SL01-0.8-1.5**

**Lab Sample ID: 240-97885-37**

Date Collected: 06/14/18 14:42

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334947	07/06/18 07:48	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335161	07/08/18 22:51	LSH	TAL CAN

**Client Sample ID: ED-00.19-SL01-0.8-1.5-FD**

**Lab Sample ID: 240-97885-38**

Date Collected: 06/14/18 14:42

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.19-SL01-0.8-1.5-FD**

**Lab Sample ID: 240-97885-38**

Date Collected: 06/14/18 14:42

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334947	07/06/18 07:48	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335161	07/08/18 23:08	LSH	TAL CAN

**Client Sample ID: ED-00.21-SL01-0.0-1.0**

**Lab Sample ID: 240-97885-41**

Date Collected: 06/14/18 14:56

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.21-SL01-0.0-1.0**

**Lab Sample ID: 240-97885-41**

Date Collected: 06/14/18 14:56

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334947	07/06/18 07:48	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335161	07/08/18 23:25	LSH	TAL CAN

TestAmerica Canton



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.21-SL01-1.0-2.0**

**Lab Sample ID: 240-97885-42**

**Date Collected: 06/14/18 14:58**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.21-SL01-1.0-2.0**

**Lab Sample ID: 240-97885-42**

**Date Collected: 06/14/18 14:58**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 85.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 10:36	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 14:11	KMG	TAL CAN

**Client Sample ID: ED-00.21-SL01-1.0-2.0-FD**

**Lab Sample ID: 240-97885-43**

**Date Collected: 06/14/18 14:58**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.21-SL01-1.0-2.0-FD**

**Lab Sample ID: 240-97885-43**

**Date Collected: 06/14/18 14:58**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 10:36	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 14:30	KMG	TAL CAN

**Client Sample ID: ED-00.27-SL01-0.0-1.0**

**Lab Sample ID: 240-97885-46**

**Date Collected: 06/14/18 13:39**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.27-SL01-0.0-1.0**

**Lab Sample ID: 240-97885-46**

**Date Collected: 06/14/18 13:39**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 70.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 10:36	DVT	TAL CAN
Total/NA	Analysis	8082A		50	335385	07/10/18 14:50	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.27-SL01-1.0-1.9**

**Lab Sample ID: 240-97885-47**

Date Collected: 06/14/18 13:41

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.27-SL01-1.0-1.9**

**Lab Sample ID: 240-97885-47**

Date Collected: 06/14/18 13:41

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 10:40	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 15:09	KMG	TAL CAN

**Client Sample ID: ED-00.27-SL01-1.9-2.8**

**Lab Sample ID: 240-97885-48**

Date Collected: 06/14/18 13:43

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.27-SL01-1.9-2.8**

**Lab Sample ID: 240-97885-48**

Date Collected: 06/14/18 13:43

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 10:40	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 11:15	KMG	TAL CAN

**Client Sample ID: ED-00.23-SL01-0.7-1.2**

**Lab Sample ID: 240-97885-50**

Date Collected: 06/14/18 12:55

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.23-SL01-0.7-1.2**

**Lab Sample ID: 240-97885-50**

Date Collected: 06/14/18 12:55

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 11:08	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 16:47	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.23-SL01-0.7-1.2-FD**

**Lab Sample ID: 240-97885-51**

Date Collected: 06/14/18 12:55

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.23-SL01-0.7-1.2-FD**

**Lab Sample ID: 240-97885-51**

Date Collected: 06/14/18 12:55

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 11:08	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 17:07	KMG	TAL CAN

**Client Sample ID: ED-01.14-SL04-0.5-1.0**

**Lab Sample ID: 240-97885-56**

Date Collected: 06/15/18 18:33

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL04-0.5-1.0**

**Lab Sample ID: 240-97885-56**

Date Collected: 06/15/18 18:33

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 11:08	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 17:26	KMG	TAL CAN

**Client Sample ID: ED-01.14-SL04-1.5-1.8**

**Lab Sample ID: 240-97885-57**

Date Collected: 06/15/18 18:40

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL04-1.5-1.8**

**Lab Sample ID: 240-97885-57**

Date Collected: 06/15/18 18:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 01:35	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL04-1.0-1.5**

**Lab Sample ID: 240-97885-58**

Date Collected: 06/15/18 18:35

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL04-1.0-1.5**

**Lab Sample ID: 240-97885-58**

Date Collected: 06/15/18 18:35

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 02:53	KMG	TAL CAN

**Client Sample ID: ED-01.14-SL04-0.0-0.5**

**Lab Sample ID: 240-97885-59**

Date Collected: 06/15/18 18:30

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL04-0.0-0.5**

**Lab Sample ID: 240-97885-59**

Date Collected: 06/15/18 18:30

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335539	07/11/18 03:12	KMG	TAL CAN

**Client Sample ID: ED-00.36-SL01-0.4-1.0**

**Lab Sample ID: 240-97885-60**

Date Collected: 06/14/18 10:58

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.36-SL01-0.4-1.0**

**Lab Sample ID: 240-97885-60**

Date Collected: 06/14/18 10:58

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 03:32	KMG	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.00-SL03-0.9-1.7**

**Lab Sample ID: 240-97885-61**

Date Collected: 06/14/18 15:50

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.00-SL03-0.9-1.7**

**Lab Sample ID: 240-97885-61**

Date Collected: 06/14/18 15:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 03:51	KMG	TAL CAN

**Client Sample ID: ED-00.36-SL01-0.0-0.4**

**Lab Sample ID: 240-97885-62**

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.36-SL01-0.0-0.4**

**Lab Sample ID: 240-97885-62**

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 04:11	KMG	TAL CAN

**Client Sample ID: ED-00.36-SL01-1.5-2.0**

**Lab Sample ID: 240-97885-65**

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.36-SL01-1.5-2.0**

**Lab Sample ID: 240-97885-65**

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 13:44	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.41-SL01-0.5-1.0**

**Lab Sample ID: 240-97885-66**

**Date Collected: 06/14/18 10:05**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.41-SL01-0.5-1.0**

**Lab Sample ID: 240-97885-66**

**Date Collected: 06/14/18 10:05**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 87.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		2	335539	07/11/18 04:30	KMG	TAL CAN

**Client Sample ID: ED-00.36-SL01-1.5-2.0-FD**

**Lab Sample ID: 240-97885-68**

**Date Collected: 06/14/18 10:50**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.36-SL01-1.5-2.0-FD**

**Lab Sample ID: 240-97885-68**

**Date Collected: 06/14/18 10:50**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 84.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 04:50	KMG	TAL CAN

**Client Sample ID: ED-00.36-SL01-0.4-1.0**

**Lab Sample ID: 240-97885-69**

**Date Collected: 06/14/18 10:55**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.36-SL01-0.4-1.0**

**Lab Sample ID: 240-97885-69**

**Date Collected: 06/14/18 10:55**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 80.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 01:08	LSH	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.19-SL01-1.8-2.3**

**Lab Sample ID: 240-97885-70**

Date Collected: 06/14/18 14:48

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

**Client Sample ID: ED-00.19-SL01-1.8-2.3**

**Lab Sample ID: 240-97885-70**

Date Collected: 06/14/18 14:48

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		2	335509	07/11/18 01:24	LSH	TAL CAN

**Client Sample ID: ED-00.29-SL01-1.7-2.7**

**Lab Sample ID: 240-97885-74**

Date Collected: 06/14/18 13:36

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.29-SL01-1.7-2.7**

**Lab Sample ID: 240-97885-74**

Date Collected: 06/14/18 13:36

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 70.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 01:41	LSH	TAL CAN

**Client Sample ID: ED-00.44-SL01-0.0-0.5**

**Lab Sample ID: 240-97885-77**

Date Collected: 06/14/18 11:20

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.44-SL01-0.0-0.5**

**Lab Sample ID: 240-97885-77**

Date Collected: 06/14/18 11:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 01:58	LSH	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.44-SL01-0.5-1.0**

**Lab Sample ID: 240-97885-78**

Date Collected: 06/14/18 11:22

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.44-SL01-0.5-1.0**

**Lab Sample ID: 240-97885-78**

Date Collected: 06/14/18 11:22

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 02:14	LSH	TAL CAN

**Client Sample ID: ED-00.44-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-79**

Date Collected: 06/14/18 11:27

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.44-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-79**

Date Collected: 06/14/18 11:27

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 02:32	LSH	TAL CAN

**Client Sample ID: ED-00.44-SL01-1.5-1.8**

**Lab Sample ID: 240-97885-80**

Date Collected: 06/14/18 11:34

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.44-SL01-1.5-1.8**

**Lab Sample ID: 240-97885-80**

Date Collected: 06/14/18 11:34

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 02:49	LSH	TAL CAN

TestAmerica Canton



# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.44-SL01-1.8-2.0**

**Lab Sample ID: 240-97885-81**

Date Collected: 06/14/18 11:40

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.44-SL01-1.8-2.0**

**Lab Sample ID: 240-97885-81**

Date Collected: 06/14/18 11:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 03:05	LSH	TAL CAN

**Client Sample ID: ED-01.14-SL06-0.0-0.5**

**Lab Sample ID: 240-97885-85**

Date Collected: 06/13/18 13:56

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL06-0.0-0.5**

**Lab Sample ID: 240-97885-85**

Date Collected: 06/13/18 13:56

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 07:22	CSC	TAL CAN

**Client Sample ID: ED-01.14-SL06-0.5-1.0**

**Lab Sample ID: 240-97885-86**

Date Collected: 06/13/18 13:58

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL06-0.5-1.0**

**Lab Sample ID: 240-97885-86**

Date Collected: 06/13/18 13:58

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 07:39	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-01.14-SL06-1.0-1.5**

**Lab Sample ID: 240-97885-87**

Date Collected: 06/13/18 14:12

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-01.14-SL06-1.0-1.5**

**Lab Sample ID: 240-97885-87**

Date Collected: 06/13/18 14:12

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 07:56	CSC	TAL CAN

**Client Sample ID: ED-00.31-SL01-0.0-1.0**

**Lab Sample ID: 240-97885-89**

Date Collected: 06/14/18 12:13

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.31-SL01-0.0-1.0**

**Lab Sample ID: 240-97885-89**

Date Collected: 06/14/18 12:13

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		20	335388	07/10/18 08:31	CSC	TAL CAN

**Client Sample ID: ED-00.31-SL01-1.0-2.0**

**Lab Sample ID: 240-97885-90**

Date Collected: 06/14/18 12:15

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.31-SL01-1.0-2.0**

**Lab Sample ID: 240-97885-90**

Date Collected: 06/14/18 12:15

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 08:48	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.33-SL01-0.0-0.7**

**Lab Sample ID: 240-97885-94**

Date Collected: 06/14/18 12:20

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.33-SL01-0.0-0.7**

**Lab Sample ID: 240-97885-94**

Date Collected: 06/14/18 12:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 09:06	CSC	TAL CAN

**Client Sample ID: ED-00.33-SL01-0.7-1.6**

**Lab Sample ID: 240-97885-95**

Date Collected: 06/14/18 12:25

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.33-SL01-0.7-1.6**

**Lab Sample ID: 240-97885-95**

Date Collected: 06/14/18 12:25

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 09:23	CSC	TAL CAN

**Client Sample ID: ED-00.33-SL01-1.6-2.3**

**Lab Sample ID: 240-97885-96**

Date Collected: 06/14/18 12:27

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.33-SL01-1.6-2.3**

**Lab Sample ID: 240-97885-96**

Date Collected: 06/14/18 12:27

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 09:41	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.23-SL01-0.0-0.7**

**Lab Sample ID: 240-97885-99**

Date Collected: 06/14/18 12:51

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.23-SL01-0.0-0.7**

**Lab Sample ID: 240-97885-99**

Date Collected: 06/14/18 12:51

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		10	335388	07/10/18 11:25	CSC	TAL CAN

**Client Sample ID: ED-00.23-SL01-1.2-2.0**

**Lab Sample ID: 240-97885-100**

Date Collected: 06/14/18 12:56

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.23-SL01-1.2-2.0**

**Lab Sample ID: 240-97885-100**

Date Collected: 06/14/18 12:56

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 11:42	CSC	TAL CAN

**Client Sample ID: ED-00.29-SL01-0.0-0.7**

**Lab Sample ID: 240-97885-103**

Date Collected: 06/14/18 13:32

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.29-SL01-0.0-0.7**

**Lab Sample ID: 240-97885-103**

Date Collected: 06/14/18 13:32

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		10	335388	07/10/18 12:00	CSC	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: Civil & Environmental Consultants Inc  
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

**Client Sample ID: ED-00.29-SL01-0.7-1.7**

**Lab Sample ID: 240-97885-104**

**Date Collected: 06/14/18 13:34**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.29-SL01-0.7-1.7**

**Lab Sample ID: 240-97885-104**

**Date Collected: 06/14/18 13:34**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 87.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 12:17	CSC	TAL CAN

**Client Sample ID: ED-00.29-SL01-1.7-2.7-FD**

**Lab Sample ID: 240-97885-105**

**Date Collected: 06/14/18 13:36**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.29-SL01-1.7-2.7-FD**

**Lab Sample ID: 240-97885-105**

**Date Collected: 06/14/18 13:36**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 74.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 13:27	CSC	TAL CAN

**Client Sample ID: ED-00.36-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-106**

**Date Collected: 06/14/18 10:51**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

**Client Sample ID: ED-00.36-SL01-1.0-1.5**

**Lab Sample ID: 240-97885-106**

**Date Collected: 06/14/18 10:51**

**Matrix: Solid**

**Date Received: 06/27/18 09:50**

**Percent Solids: 83.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 08:14	CSC	TAL CAN

**Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

# Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc  
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

## Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-18 *
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18 *
Nevada	State Program	9	OH-000482008A	07-31-18 *
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-18 *
Texas	NELAP	6	T104704517-17-9	08-31-18 *
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18 *
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

TestAmerica Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

11.2/C11.2  
13.4/C13.4

Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b> Client Contact: Greg Schwartz Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farm Way Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 513-309-1966(Tel) Email: gschwartz@cecinc.com Project Name: ARConic, Inc. - Elliott Ditch Site: Elliott Ditch Lafayette, IN		Lab P/N: Nustasie, Dominic J E-Mail: dominic.nustasie@testamericainc.com Sampler: Greg Schwartz Phone: 808 268-4981		Carrier Tracking No(s): COC No: 240-52180-22484.2 Page: 2 of 4 Job #: 1 of 1	
<b>Live Date Requested:</b> TAT Requested (days): 7 PO #: 10 Purchase Order Requested WO #: 172-367 Project #: 24019083 SSOW#:		<b>Analysis Requested</b> 8082A - PCBs 7 Analytes 8082A - Moisture Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)			
<b>Sample Identification</b> ED-00.51-SL06-1.5-2.0-FD ED-00.51-SL06-1.0-2.0 ED-00.51-SL06-1.5-2.0 ED-01.14-SL01-0.5-1.0 ED-01.14-SL01-1.0-1.5 ED-01.14-SL01-1.0-1.5 ED-01.14-SL01-1.5-2.0-FD ED-01.14-SL01-1.5-2.0 ED-01.14-SL05-0.0-0.5 ED-01.14-SL05-0.5-1.0 ED-01.14-SL05-1.5-2.0		<b>Sample Date</b> 6/16/18 6/16/18 6/16/18 6/15/18 6/15/18 6/15/18 6/15/18 6/15/18 6/15/18 6/15/18		<b>Sample Time</b> 1647 1640 1647 1612 1617 1617 1620 1620 1626 1627 1632	
<b>Sample Type (C=Comp, G=grab)</b> G G G G G G G G G G		<b>Matrix (W=Water, S=Soil, O=Organic, A=Air)</b> S S S S S S S S S S		<b>Preservation Code:</b> S S S S S S S S S S	
<b>Special Instructions/Note:</b> Hold Hold Hold Hold Hold Hold Hold Hold Hold Hold		<b>Total Number of Containers</b> 1 1 1 1 1 1 1 1 1 1 1			
<b>Preservation Codes:</b> A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2SO4 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - PH 4-5 X - EDTA Z - other (specify)		<b>Special Instructions/Note:</b> Hold Hold Hold Hold Hold Hold Hold Hold Hold			
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
<b>Deliverable Requested:</b> I, II, III, IV, Other (specify)					
<b>Empty Kit Relinquished by:</b> Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		<b>Method of Shipment:</b> Date/Time: 6/14/18 09:05/18 Date/Time: 6/27/18 9:50 Date/Time: [Blank] Date/Time: [Blank]			
<b>Custody Seals Intact:</b> Δ Yes Δ No		<b>Custody Seal No.:</b> [Blank]			



### Chain of Custody Record

<b>Client Information</b> Client Contact: <u>Greg Schwartz</u> Company: <u>Civil &amp; Environmental Consultants Inc</u> Address: <u>2704 Cherokee Farm Way, Suite 101</u> City: <u>Knoxville</u> State, Zip: <u>TN, 37920</u> Phone: <u>513-309-1966(Tel)</u> Email: <u>gschwartz@cecinc.com</u> Project Name: <u>Arconic, Inc. - Elliott Ditch</u> Site: <u>Lafayette, IN</u>		Lab PM: <u>Nestlasie, Dominic J</u> E-Mail: <u>dominic.nestlasie@testamericainc.com</u> Sampler: <u>Greg Schwartz</u> Phone: <u>303 268-4441</u>		Carrier Tracking No(s): COC No: <u>240-52180-22484.3</u> Page: <u>65</u> Page # of # <u>119/118</u> <u>R.F.I.</u> Job #:	
<b>Due Date Requested:</b> TAT Requested (days): <u>40</u> <u>17D</u> PO #: <u>6/14/16</u> WO #: <u>172-367</u> Purchase Order Requested Project #: <u>24019083</u> SOW#:		<b>Analysis Requested</b> 8082A - PCBs 7 Aroclors 8082A - Moisture Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)			
<b>Sample Identification</b> ED-0114-8205-1.0-1.5 ED-0000-8203-3.4-4.0 ED-0000-8203-2.5-3.4 ED-0000-8203-1.7-2.5 ED-0000-8203-0.9-1.7 ED-0000-8203-0.0-0.9 ED-0000-8204-0.0-0.9 ED-0000-8204-0.9-1.8 ED-0000-8204-1.8-2.7 ED-0000-8204-2.7-3.6		Sample Date <u>6/15/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u>		Sample Time <u>1630</u> <u>1557</u> <u>1555</u> <u>1552</u> <u>1550</u> <u>1547</u> <u>1610</u> <u>1615</u> <u>1610</u> <u>1619</u> <u>1621</u>	
Matrix (W=water, S=solid, O=oil, G=grab) <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u>		Sample Type (C=Comp, G=grab) <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u>		Preservation Code: <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u>	
Special Instructions/Note: <u>Hold</u> <u>Hold</u> <u>MS/MSD</u> <u>S</u> <u>Hold</u>		Total Number of containers			
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA Other:		M - Hexane N - None O - AsH2O2 P - Na2OHS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/OC Requirements:			
Empty Kit Relinquished by: <u>Greg Schwartz</u> Date: <u>6/14/16</u> Relinquished by: <u>Greg Schwartz</u> Date: <u>6/15/16</u> Relinquished by: _____ Date: _____		Method of Shipment: <u>Fed Ex</u> Date/Time: <u>6/15/16</u> Date/Time: <u>9:00</u> Date/Time: _____ Date/Time: _____			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			





### Chain of Custody Record

<b>Client Information</b>		Lab PM: Nestasie, Dominic J		Carrier Tracking Nets:		GOC No: 240-52180-22484.5	
Client Contact: Greg Schwartz		E-Mail: dominic.nestasie@testamericainc.com		Page: 4 of 11		Job #:	
Company: Civil & Environmental Consultants Inc		Address: 2704 Cherokee Farm Way Suite 101		City: Knoxville		State, Zip: TN, 37920	
Phone: 513-309-1966(Tel)		PO #: 172-367		Purchase Order Requested: 10		Project #: 24019083	
Email: gschwartz@cecinc.com		SSOW#:		Site: Ellwood Dr, Lefflyth, TN		Preservation Codes:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
ED-00.19-8L01-3.7-4.0		6/14/18		1016		G S	
ED-00.19-8L01-1.8-2.3		6/14/18		1446		G S	
ED-00.19-8L01-1.5-1.8		6/14/18		1446		G S	
ED-00.19-8L01-0.0-0.9		6/14/18		1440		G S	
ED-00.19-8L01-0.8-1.5		6/14/18		1442		G S	
ED-00.19-8L01-0.8-1.5-FD		6/14/18		1442		G S	
ED-00.19-8L01-1.8-2.3		6/14/18		1448		G S	
ED-00.19-8L01-2.3-3.5		6/14/18		1450		G S	
ED-00.19-8L01-3.5-4.0		6/14/18		1453		G S	
ED-00.21-8L01-0.0-1.0		6/14/18		1456		G S	
ED-00.21-8L01-1.0-2.0		6/14/18		1458		G S	
Possible Hazard Identification		Poison B		Unknown		Radiological	
<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Other (specify)	
Deliverable Requested: I, II, III, IV, Other (specify)		Date:		Date:		Time:	
Empty Kit Relinquished by:		Date/Time: 6/15/18		Date/Time: 6/14/18		Date/Time: 1310	
Relinquished by: Greg Schwartz / Greg Schwartz		Company: CEC		Company: CEC		Company: CEC	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Special Instructions/QC Requirements:		Special Instructions/Note:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client		<input type="checkbox"/> Disposal By Lab		<input type="checkbox"/> Archive For Months	
Special Instructions/QC Requirements:		Hold any sample taken > 2.0		Method of Shipment: Fed Ex Cooler A		Company: TAC	



Chain of Custody Record

<b>Client Information</b> Client Contact: Greg Schwartz Phone: 866-268-4981 Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farm Way Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 513-309-1966(Tel) Email: gschwartz@cecinc.com Project Name: Arconic, Inc. - Elliott Ditch Site: Elliott Ditch, LeFayette, TN		Lab PM: Nestlasie, Dominic J E-Mail: dominic.nestlasie@testamericainc.com Carrier Tracking No(s): COC No: 240-52180-22484.6 Page: 5 of 11 Job #:				
Due Date Requested: TAT Requested (days): 10 PO #: Purchase Order Requested WO #: 172-367 Project #: 24019083 SSOW#:		Analysis Requested 8082A - PCBs 7 Analyzers 8082A - Moisture Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)				
Sample Identification ED-00.21-SL01-1.0-2.0-FD ED-00.21-SL01-2.0-2.9-FD ED-00.21-SL01-2.9-3.8 ED-00.27-SL01-0.0-1.0 ED-00.27-SL01-1.0-1.9 ED-00.27-SL01-1.9-2.8 ED-00.27-SL01-2.8-3.7 ED-00.23-SL01-0.7-1.2 ED-00.23-SL01-0.7-1.2-FD ED-00.23-SL01-2.0-2.9 ED-00.23-SL01-2.9-3.5	Sample Date 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18	Sample Time 1458 1459 1503 1339 1341 1343 1345 1255 1255 1310 1315	Sample Type (C=comp, G=grab) G G G G G G G G G G G	Matrix (W=water, S=solid, O=wastewater, BT=bitumen, A=air) S S S S S S S S S S S	Preservation Code: N Y X X X X X X X X X X	Special Instructions/Note: Hold Hold Hold Hold Hold Hold
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Empty Kit Relinquished by: <i>Greg Schwartz</i> Relinquished by: <i>Greg Schwartz</i> Relinquished by: <i>Greg Schwartz</i> Relinquished by:		Method of Shipment: <b>FEDEX</b> Cooler <b>A</b> Date/Time: 6/25/18 1310 Date/Time: 6/25/18 930 Date/Time:				
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				



### Chain of Custody Record

<b>Client Information</b> Client Contact: Greg Schwartz Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farm Way Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 513-309-1966(Tel) Email: gschwartz@cecinc.com Project Name: Arconic, Inc. - Elliott Ditch Site: <i>Wahpeton, MN</i>		Lab PM: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericainc.com Phone: 800-268-4981 Carner Tracking No(s): COC No: 240-52180-22484.7 Page: 6 of 11 Page: 7 of 11 Job #: 6 of 11	
Due Date Requested: TAT Requested (days): PO #: Purchase Order Requested WO #: Project #: SSOW#:		Analysis Requested Total Number of Containers:	
Sample Identification ED-00.44-SL01-3.0-3.5 ED-00.44-SL01-3.5-4.0 ED-01.14-SL06-1.0-1.5 ED-01.14-SL04-0.5-1.0 ED-01.14-SL04-1.5-1.8 ED-01.14-SL04-1.0-1.5 ED-01.14-SL04-0.0-0.5 ED-00.36-SL01-0.9-1.0 ED-00.36-SL01-0.4-1.0-ED ED-00.36-SL01-0.0-0.4		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8082A, Moisture 8082A - PCBs 7 Analytes Special Instructions/Note: Hold Hold CS CS	
Sample Date 6/14/18 1151 6/14/18 1151 6/15/18 1825 6/15/18 1838 6/15/18 1840 6/15/18 1835 6/15/18 1830 6/14/18 1058 6/14/18 1550 6/14/18 1050 6/14/18 1050		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsKAO2 P - NaZOH5 Q - NaZSO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
Empty Kit Relinquished by: <i>Greg Schwartz</i> Relinquished by: <i>Greg Schwartz</i> Relinquished by: Relinquished by:		Method of Shipment: Fed Ex Cooler B Date/Time: 6/25/18 - 1310 Date/Time: Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	



**Chain of Custody Record**

<b>Client Information</b>		Sampier: <b>Greg Schwartz</b>		Lab P/N: <b>Nestastie, Dominic J</b>		Carrier Tracking No(s)		COC No: <b>240-52180-22484.7</b>	
Client Contact: <b>Greg Schwartz</b>		Phone: <b>800-266-181</b>		E-Mail: <b>dominic.nestastie@testamericainc.com</b>				Page: <b>6/19/16</b>	
Company: <b>Civil &amp; Environmental Consultants Inc</b>		Address: <b>2704 Cherokee Farm Way Suite 101</b>		City: <b>Knoxville</b>		State, Zip: <b>TN, 37920</b>		Job #: <b>7.011</b>	
Phone: <b>513-309-1966(Tel)</b>		Due Date Requested:		TAT Requested (days): <b>10</b>					
Email: <b>gschwartz@cecinc.com</b>		Purchase Order Requested		FO #: <b>172-367</b>					
Project Name: <b>Arocloric, Inc. - Elliott Ditch</b>		Project #: <b>24019083</b>		SSOW#:					
Site: <b>Elliott Ditch Lafayette, TN</b>									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs 7 Aroclors	8082A - Moisture	Total Number of Containers	Special Instructions/Note:
ED-00.17 - SLO2 - 1.8 - 2.8 - FD	6/14/18	1524	C	S	N	N	X	X		Hold
ED-00.41 - SLO1 - 3.0 - 3.7	6/14/18	1524	C	S	N	X	X		Hold	
ED-00.36 - SLO1 - 1.5 - 2.0	6/14/18	1050	C	S	N	X	X		Hold	
ED-00.41 - SLO1 - 0.5 - 1.0	6/14/18	1005	C	S	N	X	X		Hold	
ED-00.36 - SLO1 - 3.5 - 4.0	6/14/18	1105	C	S	N	X	X		Hold	
ED-00.36 - SLO1 - 1.5 - 2.0 - FD	6/14/18	1050	C	S	N	X	X		Hold	
ED-00.36 - SLO1 - 0.4 - 1.0	6/14/18	1055	C	S	N	X	X		Hold	
ED-00.19 - SLO1 - 1.8 - 2.5 - FD	6/14/18	1448	C	S	N	X	X		Hold	
ED-00.33 - SLO1 - 2.3 - 3.1 - FD	6/14/18	1230	C	S	N	X	X		Hold	
ED-00.36 - SLO1 - 2.0 - 2.5	6/14/18	1050	C	S	N	X	X		Hold	
ED-00.36 - SLO1 - 2.5 - 3.5	6/14/18	1059	C	S	N	X	X		Hold	

<b>Possible Hazard Identification</b>		<input checked="" type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological	
<b>Deliverable Requested:</b> I, II, III, IV, Other (specify)													
<b>Empty Kit Relinquished by:</b>		Date:		Date:		Date:		Date:		Date:		Date:	
Relinquished by: <b>Greg Schwartz</b>		Date/Time: <b>6/25/18 1330</b>		Company: <b>CEC</b>		Received by: <b>BBP</b>		Date/Time: <b>6/27/18</b>		Company: <b>TAC</b>		Received by: <b>FedEx</b>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:									

### Chain of Custody Record

<b>Client Information</b> Client Contact: Greg Schwartz Phone: 806 269-4481 Sampler: Greg Schwartz Lab PM: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericainc.com		COC No: 240-52180-22484.7 Page: 6/19/18 Job #: 8 of 11	
Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farm Way Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 513-309-1966(Tel) Email: gschwartz@cecinc.com Project Name: Arconic, Inc. - Elliott Ditch Site: Lafayette IN		Carrier/Tracking No(s): Analysis Requested:	
Due Date Requested: TAT Requested (days): 10 PO #: Purchase Order Requested W/O #: 172-367 Project #: 24019083 S/SOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - NCA W - pH 4-5 Z - other (specify)	
<b>Sample Identification</b> ED-00.29-SL01-1.7-2.7 ED-00.29-SL01-2.7-3.7 ED-00.52-SL03-1.5-2.0 ED-00.44-SL01-0.0-0.5 ED-00.44-SL01-0.5-1.0 ED-00.44-SL01-1.0-1.5 ED-00.44-SL01-1.5-1.8 ED-00.44-SL01-1.5-1.8 ED-00.44-SL01-2.0-2.5 ED-00.44-SL01-1.5-1.9 ED-00.44-SL01-2.5-3.0		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8082A - PCBs 7 Analytes Total Number of Containers	
Sample Date 6/14/18 6/14/18 6/18/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18		Sample Time 1536 1338 1745 1120 1122 1127 1134 1140 1143 1134 1148	
Sample Type (C=comp, G=grab) G G G G G G G G G		Matrix (W=water, S=solid, D=dustfall, A=air) S S S S S S S S S	
Preservation Code: S S S S S S S S S		Special Instructions/Note: Hold Hold  Hold Hold	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment: Fed Ex Cooler B	
Relinquished by: [Signature] Date/Time: 6/15/18 12:10 Company: CEC		Date/Time: 6-27-18 9:50 Company: TEL	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



TestAmerica Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

### Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b> Client Contact: Greg Schwartz Phone: 608-266-4981 Lab PM: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericainc.com		Carrier Tracking No(s): ICC No: 240-52180-22484.7 Page: 7 of 18 Job #: 6/14/18 2011								
Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farm Way Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 513-309-1966(Tel) Email: gschwartz@cecinc.com Project Name: Arconic, Inc. - Elliott Ditch Site: Elliott Ditch Lafayette, IN		<b>Analysis Requested</b> Due Date Requested: TAT Requested (days): 14 PO #: Purchase Order Requested WO #: 172-367 Project #: 24019083 SSOW#:								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=bioassay)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs 7 Aroclors	8082A - PCBs 7 Aroclors	Total Number of Containers	Special Instructions/Note:
ED-01.14-SL06-0.0-0.5	6/13/18	1756	G	S	N	X	N	X		
ED-01.14-SL06-0.5-1.0	6/13/18	1358	G	S	N	X	N	X		
ED-01.14-SL06-1.0-1.5	6/13/18	1412	G	S	N	X	N	X		
ED-01.14-SL06-1.5-2.0	6/13/18	1430	G	S	N	X	N	X		Hold
ED-00.31-SL01-0.0-1.0	6/14/18	1213	G	S	N	X	N	X		
ED-00.31-SL01-1.0-2.0	6/14/18	1215	G	S	N	X	N	X		
ED-00.31-SL01-1.0-2.0-FD	6/14/18	1215	G	S	N	X	N	X		
ED-00.31-SL01-2.0-2.8	6/14/18	1217	G	S	N	X	N	X		Hold
ED-00.31-SL01-2.8-3.8	6/14/18	1219	G	S	N	X	N	X		
ED-00.33-SL01-0.0-0.7	6/14/18	1220	G	S	N	X	N	X		Hold
ED-00.33-SL01-0.7-1.6	6/14/18	1225	G	S	N	X	N	X		Hold
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										
<b>Deliverable Requested:</b> I, II, IV, Other (specify)										
<b>Empty Kit Relinquished by:</b> [Signature] Date: 6/25/18 - 1310 Company: CEC										
<b>Relinquished by:</b> [Signature] Date/Time: 6/25/18 - 1310 Company: CEC										
<b>Relinquished by:</b> [Signature] Date/Time: Company:										
<b>Custody Seals Intact:</b> Δ Yes Δ No Custody Seal No.:										
<b>Special Instructions/Requirements:</b>										
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months										
<b>Method of Shipment:</b> Fed Ex Cooler 3										
<b>Received by:</b> [Signature] Date/Time: 6/27/18 950 Company: TAC										
<b>Received by:</b> [Signature] Date/Time: Company:										
<b>Received by:</b> [Signature] Date/Time: Company:										
<b>Cooler Temperature(s) °C and Other Remarks:</b>										

**Chain of Custody Record**

<b>Client Information</b>		Lab PM: Nestasie, Dominic J		Carrier Tracking No(s):	
Company: Civil & Environmental Consultants Inc		E-Mail: dominic.nestasie@testamericainc.com		COC No: 240-52180-22484, 7	
Address: 2704 Cherokee Farm Way, Suite 101		Phone: 800 268-4181		Page: 6 of 11	
City: Knoxville		State, Zip: TN, 37920		Job #:	
Phone: 513-309-1966(Tel)		Purchase Order Requested		Preservation Codes:	
E-mail: gschwartz@cecinc.com		WO #: 172-367		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ipa J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - NiZnOAS Q - NiZSO3 R - NiZSO3 S - HZSO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Project Name: Arconic, Inc. - Elliott Ditch		Project #: 24019083		Other:	
Site: Lafayette IN		SSOW#:		Special Instructions/Note: Hold any sample > 2.0' depth	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=volatile, B=refuse, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs 7 Aroclors	8082A - Moisture	Analysis Requested	Total Number of Containers
ED-00.33 - SL01 - 1.6-2.3	6/14/18	1227	G	S	X	X	N	X		
ED-00.33 - SL01 - 2.3-3.1	6/14/18	1230	G	S	X	X	N	X		
ED-00.33 - SL01 - 3.1-4.0	6/14/18	1236	G	S	X	X	N	X		
ED-00.23 - SL01 - 0.7-1.2	6/14/18	1257	G	S	X	X	N	X		
ED-00.23 - SL01 - 1.2-2.0	6/14/18	1256	G	S	X	X	N	X		
ED-00.23 - SL01 - 2.0-2.8	6/14/18	1302	G	S	X	X	N	X		
ED-00.23 - SL01 - 3.5-4.0	6/14/18	1318	G	S	X	X	N	X		
ED-00.29 - SL01 - 0.0-0.7	6/14/18	1332	G	S	X	X	N	X		
ED-00.29 - SL01 - 0.7-1.7	6/14/18	1334	G	S	X	X	N	X		
ED-00.29 - SL01 - 1.7-2.7-FO	6/14/18	1336	G	S	X	X	N	X		

<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Special Instructions/OC Requirements:			
Empty Kit Relinquished by:		Date: 6/14/18	
Relinquished by: Greg Schwartz / chryler		Date/Time: 6/25/18 1310	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	



**Chain of Custody Record**

<b>Client Information</b>		Lab P.M. Nestasie, Dominic J		Carrier Tracking No(s)		COC No. 240-52180-22484.7	
Client Contact: Greg Schwartz		E-Mail: dominic.nestasie@testamericainc.com		Page: 6/11		Job #: U.F.11	
Company: Civil & Environmental Consultants Inc		Address: 2704 Cherokee Farm Way Suite 101		Due Date Requested:		Preservation Codes:	
City: Knoxville		State, Zip: TN, 37920		TAT Requested (days): 10		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - H2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDTA Z - other (specify)	
Phone: 513-309-1966(Tel)		PO #: 172-367		Purchase Order Requested		Other:	
Email: gschwartz@cecinc.com		Project #: 24019083		Field Filtered Sample (Yes or No)		Total Number of Containers	
Project Name: Arconic, Inc. - Elliott Ditch		SSOW#:		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
Site: Lafayette, IN		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
ED-00.00-SL03-0.9-17-MSD		6/14/18		1550		G S	
ED-00.33-SL01-2.5-3.1-MS		6/14/18		1230		G S	
ED-00.36-SL01-1.5-2.0-MS		6/14/18		1050		G S	
ED-00.36-SL01-0.4-1.0-MS		6/14/18		1053		G S	
ED-00.36-SL01-1.0-1.5		6/14/18		105		G S	
Possible Hazard Identification		Date		Time		Matrix (W=water, S=solid, O=volatile)	
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		6/25/18		1518		BT-Trace Acid	
Deliverable Requested: I, II, III, IV, Other (specify)		Date		Time		Preservation Code	
Empty Kit Relinquished by:		Date		Time		8022A - PCBs 7 Aroclors	
Relinquished by: [Signature]		6/25/18		1518		8022A - PCBs 7 Aroclors	
Relinquished by:		Date/Time		Date/Time		8022A - PCBs 7 Aroclors	
Relinquished by:		Date/Time		Date/Time		8022A - PCBs 7 Aroclors	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Method of Shipment: Fed Ex Cooler		Special Instructions/OC Requirements:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months		Date/Time: 6/27/18		Date/Time: 950	
Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Company:		Company:		Company:		Company:	
Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	



TestAmerica Canton Sample Receipt Form/Narrative

Login # : 97805

Canton Facility

Client Civil Eng. & Cons. Site Name \_\_\_\_\_

Cooler unpacked by:

Cooler Received on 6-27-18 Opened on 6-27-18

[Signature]

FedEx: 1<sup>st</sup>  Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

Receipt After-hours: Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

TestAmerica Cooler # 7A Foam Box Client Cooler Box Other \_\_\_\_\_

Packing material used:  Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_

COOLANT: Wet Ice Blue Ice Dry Ice  Water None


- 1. Cooler temperature upon receipt  See Multiple Cooler Form
  - IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C
  - IR GUN #36 (CF -0.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C
  - IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
  - Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
  - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes  No
  - Were tamper/custody seals intact and uncompromised? Yes No NA

- 3. Shippers' packing slip attached to the cooler(s)? Yes No
- 4. Did custody papers accompany the sample(s)? Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- 7. Did all bottles arrive in good condition (Unbroken)? Yes No
- 8. Could all bottle labels be reconciled with the COC?  Yes  No
- 9. Were correct bottle(s) used for the test(s) indicated? Yes No
- 10. Sufficient quantity received to perform indicated analyses? Yes No
- 11. Are these work share samples? Yes  No

Tests that are not checked for pH by Receiving:

VOAs  
Oil and Grease  
TOC

- If yes, Questions 12-16 have been checked at the originating laboratory.
- 12. Were all preserved sample(s) at the correct pH upon receipt? Yes No  NA pH Strip Lot# HC740840
- 13. Were VOAs on the COC? Yes  No
- 14. Were air bubbles >6 mm in any VOA vials?  Yes  No  NA  ← Larger than this.
- 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_ Yes  No
- 16. Was a LL Hg or Me Hg trip blank present? Yes  No

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_

Concerning \_\_\_\_\_

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

JR.

<u>Listed on COC, but did not rec'y.:</u>	<u>Rec'd not listed on COC.</u>
<u>ED-00.19-SL01-1.8-2.3 @ 1448</u>	<u>ED-00.36-SL01-3.0-3.5 (6.14.18 @ 1050)</u>
<u>ED-01.14-SL06-1.0-1.5 @ 1825</u>	<u>ED-01.14-SL04-15-1.5 FD (6.15.18 @ 1825)</u>
<u>ED-00.36-SL01-0.4-1.0 FD @ 1053</u>	

18. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.

Sample(s) \_\_\_\_\_ were received in a broken container.

Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) \_\_\_\_\_ were further preserved in the laboratory.

Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_



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**APPENDIX IV**

**COMMUNITY RELATIONS PLAN FOR LEVEE SOIL IM PROJECT**

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**RCRA CORRECTIVE ACTION  
COMMUNITY RELATIONS PLAN  
ELLIOTT DITCH – REACHES 1 - 3**

**ARCONIC LAFAYETTE OPERATIONS  
3131 EAST MAIN STREET  
LAFAYETTE, INDIANA 47905**

**PREPARED FOR:**



**ARCONIC**

**MR. ROBERT PREZBINDOWSKI  
TENNESSEE OPERATIONS – NORTH PLANT  
2300 NORTH WRIGHT ROAD  
ALCOA, TENNESSEE 37701**

**PREPARED BY:**

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
2704 CHEROKEE FARM WAY, SUITE 101  
KNOXVILLE, TENNESSEE 37920**

**CEC PROJECT: 172-367.0012**

**JANUARY 2020**



**Civil & Environmental Consultants, Inc.**

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## 1.0 INTRODUCTION

This Community Relations Plan (CRP) has been prepared in support of the Interim Measures (IM) projects at Elliott Ditch Reaches 1 through 3 in Lafayette, Indiana. Arconic Inc. (Arconic), formerly Alcoa Inc., intends to implement multiple IM projects to address identified polychlorinated biphenyls (PCBs) impacts to soil and sediment within these reaches of Elliott Ditch. The observed PCB impacts are believed to be associated with historical releases from the Arconic Lafayette Operations (Facility). The IM projects will be implemented sequentially, with the first being the remediation of a levee located within Reach 1. An IM Work Plan (IMWP) detailing the cleanup of the levee soil was submitted to the Indiana Department of Environmental Management (IDEM) and the U.S. Environmental Protection Agency Region 5 (U.S. EPA) in October 2018 for review and comment. A revised IMWP was submitted in November 2019 to modify the post excavation sampling approach. The IDEM subsequently provided conditional approval in a letter dated January 7, 2019, contingent upon U.S. EPA's acceptance of the post-excavation sampling scheme. Arconic has requested and will receive coordinated approval from U.S. EPA prior to implementing the levee IMWP. A similar approach will be followed for subsequent IM projects in Reaches 1 through 3 of Elliott Ditch. These activities will be completed in accordance with the Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) program and the PCB regulations under the supervision and consent of the IDEM and the U.S. EPA Region 5, respectively.

As stated in the levee IMWP, preparation and implementation of a CRP is included as part of the project to promote collaboration and communication with local stakeholders. The content of this plan includes applicable background information regarding Elliott Ditch and outlines the components of the CRP that will be implemented.

## 2.0 BACKGROUND

Elliott Ditch is a tributary to Wea Creek, which is a tributary to the Wabash River, just downstream of Lafayette, Indiana. The ditch is identified as a regulated drain until the 9th Street crossing, slightly more than 1.60 miles downstream of Facility Outfall 001. The Tippecanoe County Drainage Board maintains the regulated drains within the county, subject to Indiana Code (IC) 36-9-27. Regulated drains include an easement that typically extends 75 feet from each bank. These easements are intended to provide access for maintenance activities to support proper functionality of the drain. The easement areas have construction restrictions regarding the types of improvements that can be made by private property owners without drainage board approval.

Elliott Ditch receives storm water runoff from residential developments, as well as wastewater and storm water discharges from local, industrial sources that are monitored under the National Pollution Discharge Elimination System (NPDES). This includes receiving water from a NPDES permitted outfall (Outfall 001) of the Facility. Water from Outfall 001 discharges to Elliott Ditch approximately 1-mile south of the Facility. Discharge from the outfall includes treated sanitary and industrial process water, as well as storm water. The distance from Outfall 001 to the Elliott Ditch and Wea Creek confluence is 4.1 miles and to the Wabash River and Wea Creek confluence is 7.5 miles. The geomorphic surface mapping completed for Elliott Ditch by TetraTech CES, as documented in its *Elliott Ditch Geomorphic Surface Mapping and Historic Data Review* dated July 6, 2015, suggests that Elliott Ditch has eight distinct reaches (erosional/depositional regimes) downgradient of the outfall, as listed below:

- **Reach 1: Outfall 001 to downstream of the railroad bridge;**
- **Reach 2: The railroad bridge to the South 18th Street Bridge;**
- **Reach 3: South 18th Street Bridge to upstream of the 9th Street Bridge;**
- Reach 4: South 9th Street Bridge to north of Brookside Drive;
- Reach 5: North of Brookside Drive to downstream of Poland Hill Road;
- Reach 6: Downstream of Poland Hill Road to downstream of Old Romney Road Bridge;
- Reach 7: Downstream of Old Romney Road Bridge to upstream of US Hwy 231 South Bridge; and,
- Reach 8: Upstream of US Hwy to the Elliott Ditch – Wea Creek confluence.

This CRP covers the IM projects to be executed in Reaches 1 through 3. Please refer to **Figure 1** for the identification of Reaches 1 through 3 of Elliott Ditch. These reaches include the channelized portion of Elliott Ditch that is identified as a regulated drain and therefore subject to IC 36-9-27 statues and enforcement by the Tippecanoe County Drainage Board.



### 3.0 COMMUNITY RELATIONS PLAN

The purpose of the CRP is to outline the plan for informing and involving the community in the cleanup process of soil and sediment of Reaches 1 through 3 of Elliott Ditch. The CRP is a living document that will be updated periodically as IM project planning and execution progresses. Below are the primary elements of the CRP, as well as, pertinent information or actions for each.

#### 3.1 PROPERTY OWNER IDENTIFICATION

Arconic will identify owners whose property includes or abuts IM project activities. To do so, Arconic will complete the following:

- Using ArcGIS software, acquire publically available information from the Tippecanoe County GIS Department. Information of interest includes:
  - Parcel identification and physical address;
  - Name(s) of property owners and mailing address, if different than the physical address; and,
  - Approximate property boundary.
- If information gaps are present within publically available property records, Arconic will attempt to obtain the above information by other means which may include foot canvassing or direct coordination with the City of Lafayette or Tippecanoe County local governments.
- The information of interest will be tabulated for use throughout IM project activities. Tabulated information of interest acquired to date is presented on **Tables 1A** thru **1C** and depicted on **Figures 1A** thru **1C**.
- Acquired information will be utilized to coordinate with these property owners and provide IM project status updates. Project status updates will be provided weekly during remediation activities and quarterly during non-remediation times via a dedicated Elliott Ditch website. In addition, Arconic will promote collaboration and open dialogue with property owners and occupants to facilitate discussions regarding community needs, concerns, and expectations regarding the IM projects. An Elliott Ditch hotline, (317) 613-4514, and dedicated e-mail address, [ElliottDitchQuestions@gmail.com](mailto:ElliottDitchQuestions@gmail.com), are available to support this initiative.

#### 3.2 NEIGHBORHOOD ORGANIZATIONS

Arconic will identify registered neighborhood organizations serving the location of the IM Project. Arconic has completed a preliminary search of registered neighborhood organizations in proximity to the levee soil IM project. The preliminary search did not yield any neighborhood organizations within Reach 1. However, Mill Creek Home Owner's Association (HOA) has been identified within Reach 2 and engaged as part of previous Elliott Ditch investigations. As assessment and remediation activities progress along Elliott Ditch, Arconic will continue to search for other registered neighborhood organizations that are within proximity to remediation activities to coordinate outreach, if necessary. IM project status

updates will be provided to applicable HOAs (i.e., HOAs in proximity to remediation activities) weekly during remediation activities and quarterly during non-remediation times via the dedicated Elliott Ditch website. An email will be provided notifying applicable HOAs that the website has been updated.

### **3.3 INFORMATIONAL LETTER**

An informational letter will be prepared and issued to private property owners, property occupants, and neighborhood organizations for properties that include or abut IM project activities, as appropriate. An example informational letter for the levee soil IM project is attached to this memo. In addition, a fact sheet has been attached to this memo summarizing background information, project next steps, environmental and health impacts, and project contact information. The fact sheet will be included with the informational letters prepared for the IM projects. Proposed language to be included in the written notice is provided below:

- A short description of the IM project;
- Information concerning the public comment period, including the dates and contacts;
- Address of the Elliott Ditch website; and,
- Information concerning the record repository. The record repository will be maintained electronically and can viewed on the Elliott Ditch website. The Tippecanoe County Public Library located at 627 South Street, Lafayette, Indiana, has internet enabled computers that the general public can use to view the website in the event they do not have a computer or internet. The library will be informed of the project and provided website information so it is aware in case of inquiries.

### **3.4 LOCAL GOVERNMENT COORDINATION**

Local governmental units with jurisdiction within one mile of Reaches 1 through 3 of Elliott Ditch are listed in the attached **Table 2**. Arconic understands that the IDEM will notify the affected local government units about the IM projects and the anticipated remediation activities. Arconic will also contact the local governmental units in an effort to promote collaboration and open communication. In addition, local government units will be notified of the IM by the IDEM at the beginning of the public comment period, as soon as an internal review of the document has been completed. No other counties are within one mile of Reaches 1 through 3 of Elliott Ditch, as such, other governmental units from surrounding counties are not included.

### **3.5 MEDIA PUBLICATIONS**

The following media outlets will be solicited to publish information regarding the IM projects. For public meetings, Arconic will publish information two weeks in advance, one week in advance, and one day in advance of the meeting. Arconic will also publish information regarding public comment periods one day in advance of the start date, the commencement date, and one week prior to the end date.

- Newspaper No. 1: Journal & Courier, 823 Park East Blvd, Suite C, Lafayette, Indiana

- Newspaper No. 2: The Lafayette Leader (electronic newspaper, [http://www.newsbug.info/lafayette\\_leader/](http://www.newsbug.info/lafayette_leader/))

### 3.5.1 Example Publication

The following is an example of what will be submitted for publication regarding public comment periods. Publications regarding public meetings will be similar and include information regarding the meeting date, time, and location. Please note that the actual publication may differ slightly from what is provided:

- *“Arconic Inc. is submitting a Notice of Public comment regarding an Interim Measures Work Plan (IMWP) in review by the United States Environmental Protection Agency (U.S. EPA), Region 5, and the Indiana Department of Environmental Management (IDEM) to address impacts from polychlorinated biphenyls (PCBs) to soil present on and within a levee of Elliott Ditch. The IMWP can be reviewed at the project repository maintained electronically at Elliott Ditch website, or electronically on the IDEM’s virtual file cabinet ([vfc.idem.in.gov](http://vfc.idem.in.gov), Document No. 82630193). The comment period will be held from [DATE], to [DATE]. Questions or comments regarding the IMWP should be directed to the Elliott Ditch hotline (317) 613-4514 or [ElliottDitchQuestions@gmail.com](mailto:ElliottDitchQuestions@gmail.com).”*

### 3.6 REPOSITORY INFORMATION

As IM work plans are prepared for regulatory and public consideration, they will be available electronically on the Elliott Ditch website at least one week in advance of the start of the public comment period. The Tippecanoe County Public Library located at 627 South Street, Lafayette, Indiana, has internet enabled computers that the general public can use to view the website in the event they do not have a computer. The library will be informed of the project and provided website information so it is aware in case of inquiries

### 3.7 REQUIRED SIGNAGE DURING IM PROJECTS

Signs will be posted at the entrances of the IM project sites prior to the initiation of IM activities and will contain the following information:

- Identifies the location as an IM project site, for example, “Elliott Ditch – Levee Soil Remediation”.
- Provides contact information for the U.S. EPA Region 5 project manager and the IDEM Office of Land Quality (OLQ) project manager, as well as the Elliott Ditch hotline phone number and project website address.
  - U.S. EPA Region 5  
Ms. Jean Greensley  
77 W. Jackson Blvd.; LU-16J  
Chicago, Illinois  
(312) 353-1171

- IDEM OLQ Project Manager  
Mr. Don Stilz  
100 North Senate Avenue; IGCN 1101  
Indianapolis, Indiana  
(317) 232-3409
- (317) 613-4515 (Elliott Ditch hotline)
- Elliott Ditch website
- Shall meet the following criteria:
  - Be visible/readable from 20-feet;
  - Be in English and the language predominantly used in the neighborhood if other than English;
  - One sign per IM project site access point and no more than three signs total. Regarding the Elliott Ditch Levee Soil IM Project, one sign will be placed at the anticipated construction entrance along Concord Road and one sign along Olympia Drive; and,
  - Shall be posted starting with the end of the public comment period for the IMWP, before any work begins and remain posted until the IM project has been completed.

### **3.8 SITE CONTROL METHODS**

During the implementation of IM activities, Arconic will establish proper controls in order to reduce the potential of the public from being exposed to excavated soils, sediment and remediation equipment. This will be accomplished by establishing strict site control procedures to prohibit public access to work areas. Site control measures will be implemented at the discretion of the selected remedial contractors and may include controls such as the following:

- Installation of temporary fencing with gated entrances/exits. All entrances/exits to the work area will be closed and locked during non-working hours;
- Proper signage will be utilized to notify the public of potential hazards (as discussed above);
- All visitors will be required to sign in/out at the construction trailer and will be briefed on site hazards prior to viewing the work areas. Visitors will be escorted by site personnel and will be required to don proper personal protective equipment as defined in the Contractor Health & Safety Plan;
- Areas where active remediation is occurring will be designated as an “exclusion zone” (via signage and/or cones) and access will only be limited to properly trained site personnel, only.
- An onsite water truck will be utilized to mitigate fugitive dust from mobilizing offsite;

- Site workers will be instructed to decontaminate boots via a boot wash prior to mobilizing offsite and properly manage disposable personnel protective equipment; and,
- Dirt/mud will be removed from dump trucks and equipment prior to leaving the site. This will be accomplished via the decontamination procedures as outlined in the applicable IMWP and conducted by trained site personnel. Dump truck operators will not be prohibited to leave the cab of their truck while in areas of active remediation.

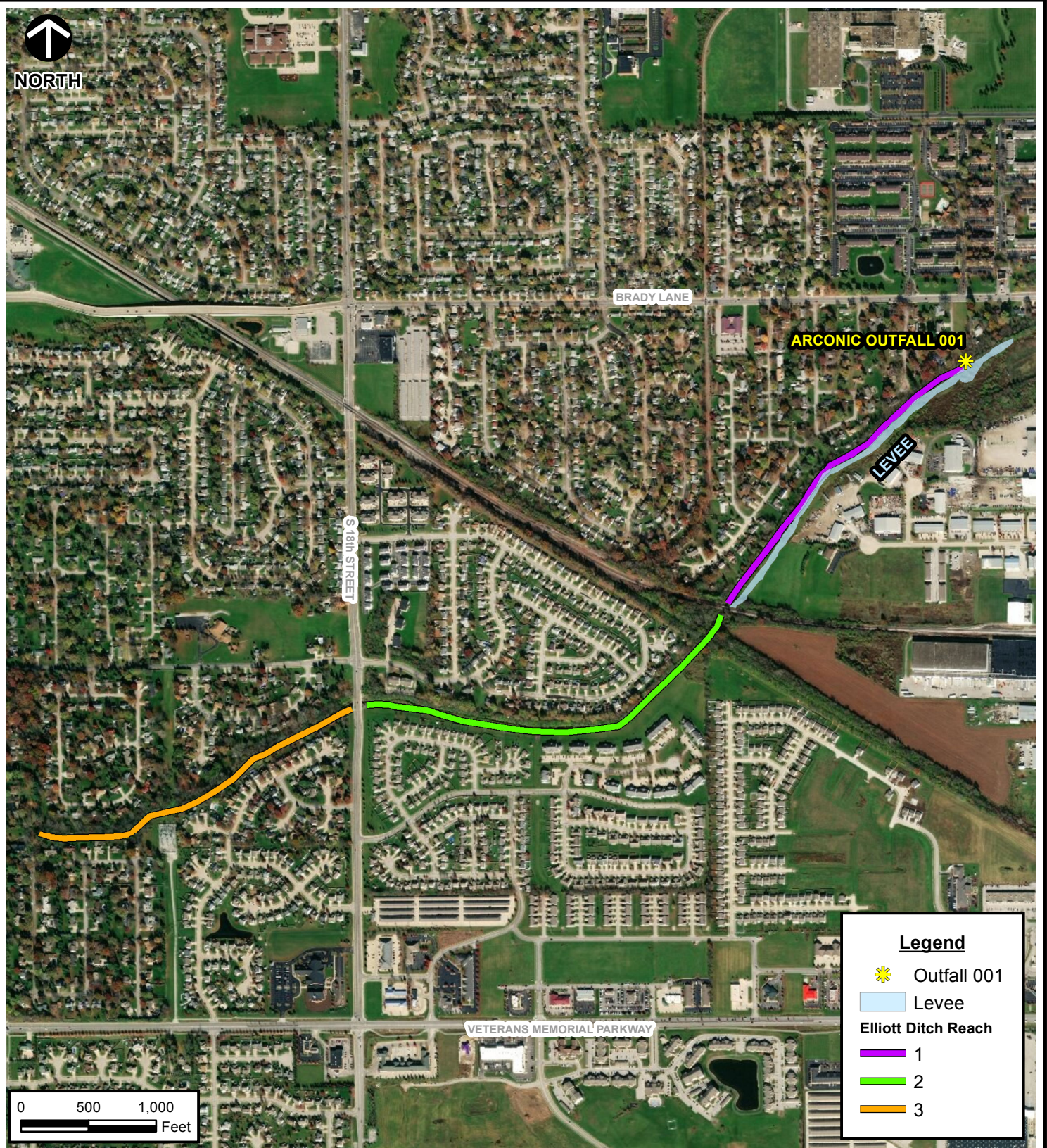
---

**FIGURE 1 – ELLIOTT DITCH REACHES 1-3**

---



NORTH



**Legend**

- Outfall 001
- Levee
- Elliott Ditch Reach**
- 1
- 2
- 3

SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD\_IMAGERY. LAST ACCESSED: 3/14/2019  
 IMAGE DATE: 03/12/2011



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ARCONIC INC.  
 LAFAYETTE OPERATIONS  
 ELLIOTT DITCH REMEDIATION  
 LAFAYETTE, INDIANA

**REACHES 1-3 & LEVEE LOCATION OVERVIEW**

DRAWN BY:	DMM	CHECKED BY:	JMB	APPROVED BY:	TLM*	FIGURE NO:	<b>1</b>
DATE:	MARCH 14, 2019	DWG SCALE:	1" = 1,000'	PROJECT NO:	172-367.0011		

Signature on File \*

P:\2017\172-367-GIS\Maps\172-367\_Elliott Ditch Reaches1\_3.mxd - 3/14/2019 - 5:09:23 PM (mbruck)

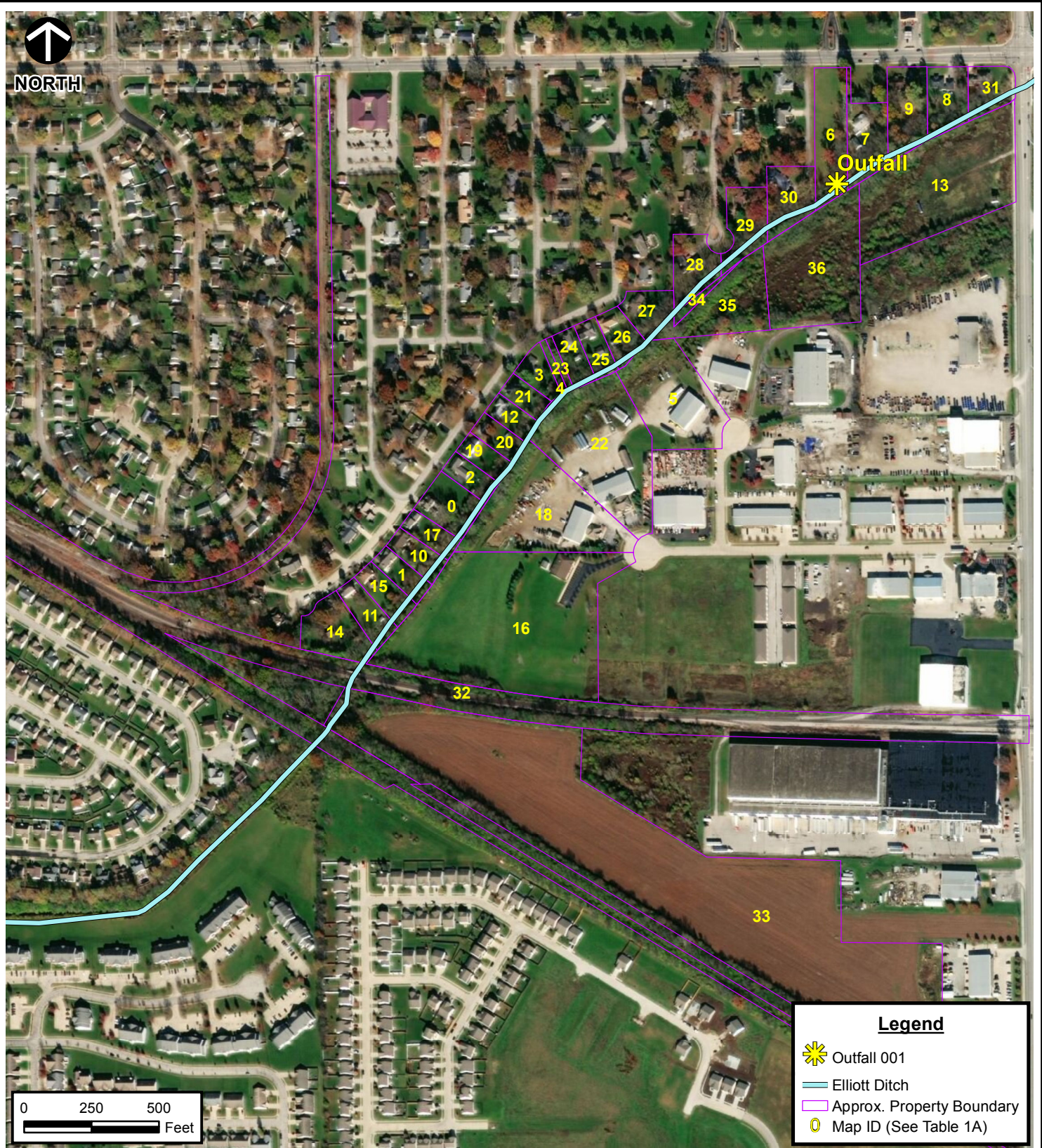
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**APPENDIX I**  
**PROPERTY OWNERSHIP INFORMATION**  
**(FIGURES 1A-1C & TABLES 1A-1C)**

---



P:\2017\172-367-Draft Documents\Task 0012 - Public Outreach\Community Relations Plan\Property Figures & Table\GIS\172-367 Elliott Ditch Access Figure\_Reach 1.mxd - 3/6/2019 - 3:33:41 PM (mbruck)



SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD\_IMAGERY. LAST ACCESSED: 3/6/2019  
 IMAGE DATE: 03/12/2011



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 865-977-9997 - 865-774-7767  
 www.cecinc.com

ARCONIC INC. - LAFAYETTE OPERATIONS  
 ELLIOTT DITCH REACHES 1-3  
 COMMUNITY RELATIONS PLAN  
 LAFAYETTE, INDIANA

REACH 1

DRAWN BY:	GDS	CHECKED BY:	GAW	APPROVED BY:	JMB*	FIGURE NO:	<b>1A</b>
DATE:	MARCH 06, 2019	DWG SCALE:	1" = 500'	PROJECT NO:	172-367.0012		

Signature on File \*

**TABLE 1A  
ELLIOTT DITCH - REACH 1 PROPERTY OWNERS  
LAFAYETTE, INDIANA**

Map ID	Parcel Address	City/Zip Code	Owner	Owner Mailing Address
31	3249 BRADY LN	Lafayette, 47909	MORGAN ERIC A	Same as Parcel Address
8	3241 BRADY LN	Lafayette, 47909	TAD RENTALS LLC	4208 CR 650 N Mulberry, IN 46058
9	3233 BRADY LN	Lafayette, 47909	HIGGINSON BRUCE A	Same as Parcel Address
7	3215 BRADY LN	Lafayette, 47909	SMITH BRIAN A	Same as Parcel Address
13	250E	Lafayette, 47909	TIPPECANOE CO PROPERTIES LLC	188 Farabee Dr., Lafayette, IN 47905
6	BRADY LN	Lafayette, 47909	ARCONIC INC	201 Isabella St., Pittsburgh, PA 15212
30	3131 BRADY LN	Lafayette, 47909	KLEIN JANEACE & USHER JAMES R	Same as Parcel Address
36	50 OLYMPIA CT	Lafayette, 47909	RATHJE DAVID W ETAL	2454 27TH St., Decatur, IL 65265
29	21 BRADY CT	Lafayette, 47909	SMITH KYLE & ERIKA R	Same as Parcel Address
28	18 BRADY CT	Lafayette, 47909	STINGLEY MALCOLM & HELEN	Same as Parcel Address
34	40 OLYMPIA CT	Lafayette, 47909	ROLAN SOLUTIONS LLC	Same as Parcel Address
35	30 OLYMPIA CT	Lafayette, 47909	R & B MANAGEMENT LLC	3223 Olympia Dr., Lafayette IN 47909
27	48 COLDBROOK CT	Lafayette, 47909	ROHR PAULINE E	Same as Parcel Address
5	30 OLYMPIA DR	Lafayette, 47909	R & B MANAGEMENT LLC	3223 Olympia Dr., Lafayette IN 47909
26	56 COLDBROOK DR	Lafayette, 47909	MERRELL HELEN L	Same as Parcel Address
25	64 COLDBROOK CT	Lafayette, 47909	FOUST MICKY L D JEAN	Same as Parcel Address
24	72 COLDBROOK DR	Lafayette, 47909	DEVANEY FRED NANCY A	Same as Parcel Address
23	72 COLDBROOK DR	Lafayette, 47909	DEVANEY FRED NANCY A	Same as Parcel Address
22	3116 OLYMPIA DR	Lafayette, 47909	WINSTEAD LLC	3223 Olympia Dr., Lafayette IN 47909
4	100 COLDBROOK DR	Lafayette, 47909	REED ROBERT E & SANDRA K	Same as Parcel Address
3	100 COLDBROOK DR	Lafayette, 47909	REED ROBERT E & SANDRA K	Same as Parcel Address
21	108 COLDBROOK DR	Lafayette, 47909	BROOKS EDITH D	Same as Parcel Address
12	116 COLDBROOK DR	Lafayette, 47909	HATCHEL W SCOTT & MARLA L	Same as Parcel Address
20	120 COLDBROOK DR	Lafayette, 47909	HANSTRA JOYCE E	Same as Parcel Address
19	126 COLDBROOK DR	Lafayette, 47909	DUNKLE ANDREA J & CHRISTOPHER M	Same as Parcel Address
2	130 COLDBROOK DR	Lafayette, 47909	KNOTH RICHARD D & MARJORIE J	Same as Parcel Address
0	137 COLDBROOK DR	Lafayette, 47909	MYERS ADAM C & KELLY J	Same as Parcel Address
18	3110 OLYMPIA DR	Lafayette, 47909	PATTON UNDERGROUND LLC	Same as Parcel Address
17	145 COLDBROOK DR	Lafayette, 47909	ALVAREZ ALONSO & ELIZABETH	Same as Parcel Address
10	155 COLDBROOK CT	Lafayette, 47909	HOLWERDA MYRON D CAROL S	Same as Parcel Address
1	165 COLDBROOK DR	Lafayette, 47909	WENDT RALPH E & PATRICIA L	Same as Parcel Address
16	3107 OLYMPIA CT	Lafayette, 47909	LOCAL UNION #2317 UAW BUILDING CORPORATION	Same as Parcel Address
15	175 COLDBROOK CT	Lafayette, 47909	LAWSON TIMOTHY & DENISE	Same as Parcel Address
11	185 COLDBROOK CT	Lafayette, 47909	BRATTON SANDRA MICHELLE TTEE	Same as Parcel Address
14	195 COLDBROOK CT	Lafayette, 47909	GRAYSON DANIEL C I SUSAN	Same as Parcel Address
32	RAILROAD	Lafayette, 47909	NEW YORK CHICAGO AND ST LOUIS RAILROAD COMPANY	185 Spring St. SW, Atlanta, GA 30303
33	250 E	Lafayette, 47909	ABS REAL ESTATE LLC	3460 Concord Rd., Lafayette IN 47909

Notes:

VACANT PARCELS

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**Legend**

- Elliott Ditch
- Approx. Property Boundary
- 0 Map ID (See Table 1B)

SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD\_IMAGERY. LAST ACCESSED: 3/6/2019  
IMAGE DATE: 03/12/2011



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ARCONIC INC. - LAFAYETTE OPERATIONS  
 ELLIOTT DITCH REACHES 1-3  
 COMMUNITY RELATIONS PLAN  
 LAFAYETTE, INDIANA

REACH 2

DRAWN BY:	GDS	CHECKED BY:	GAW	APPROVED BY:	JMB*	FIGURE NO:
DATE:	MARCH 06, 2019	DWG SCALE:	1" = 500'	PROJECT NO:	172-367.0012	<b>1B</b>

Signature on File \*

**TABLE 1B  
ELLIOTT DITCH - REACH 2 PROPERTY OWNERS  
LAFAYETTE, INDIANA**

Map ID	Parcel Address	City/Zip Code	Owner	Owner Mailing Address
30		Lafayette, 47909	WIEBERS JACOB E & MARY ANN WIEBERS TTEES	6628 1000 E Lafayette, IN 47905
31	40 SOUTHAVEN CT	Lafayette, 47909	CAVANAUGH RAMONA J	Same as Parcel Address
37	50 SOUTHAVEN CT	Lafayette, 47909	BETTY VICKI J	Same as Parcel Address
29	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
28	2353 SOUTHAVEN BLVD	Lafayette, 47909	BUTZ KODY S	Same as Parcel Address
20	2429 SOUTHAVEN BLVD	Lafayette, 47909	FRIEDERICH JULIE A	Same as Parcel Address
26	2345 WINTERSET DR	Lafayette, 47909	DOUGLAS BRADY ANDREW	Same as Parcel Address
36	2341 WINTERSET DR	Lafayette, 47909	TEAM RENTALS LLC	3928 McCarty Ln. Suite A, Lafayette, IN 47905
21	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
35	2337 WINTERSET DR	Lafayette, 47909	SPOO TERRY F	Same as Parcel Address
5	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
34	2333 WINTERSET DR	Lafayette, 47909	EVANS DAVID A & JACQUELINE L	Same as Parcel Address
33	2329 WINTERSET DR	Lafayette, 47909	KENNEDY TAMARA E	Same as Parcel Address
32	2325 WINTERSET DR	Lafayette, 47909	CAPRARA LAWRENCE P & KELLY	Same as Parcel Address
3	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
7	2321 WINTERSET DR	Lafayette, 47909	QUALITY PROPERTIES OF LAFAYETTE LLC	6720 Indian Bluff Rd., Battleground, IN 47920
8	2317 WINTERSET DR	Lafayette, 47909	COX SHERRY	Same as Parcel Address
	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
9	2313 WINTERSET DR	Lafayette, 47909	FULTZ RALPH E & MYRA	Same as Parcel Address
10	2309 WINTERSET DR	Lafayette, 47909	HERRON PATRICIA J	Same as Parcel Address
11	2305 WINTERSET DR	Lafayette, 47909	HOCKEMA WILLIAM CHARLES & MARY ELLEN	Same as Parcel Address
13	2301 WINTERSET DR	Lafayette, 47909	FISHER BETTY M & EHRIE LISA A	Same as Parcel Address
14	2217 WINTERSET DR	Lafayette, 47909	HUMMER MICHAEL L & DAWN E	Same as Parcel Address
0	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
17	2213 WINTERSET DR	Lafayette, 47909	STEWART ZACHARY C	Same as Parcel Address
15	2209 WINTERSET DR	Lafayette, 47909	NEWGENT MICHAEL L CHARLOTTE L	Same as Parcel Address
16	2205 WINTERSET DR	Lafayette, 47909	EARHART CRAIG L	Same as Parcel Address
18	2121 WINTERSET DR	Lafayette, 47909	PINGLEY STEVEN & SOPHIA	Same as Parcel Address
12		Lafayette, 47909	MILL CREEK HOME OWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
22	2121 WINTERSET DR	Lafayette, 47909	PINGLEY STEVEN L & SOPHIA L	Same as Parcel Address
1	2105 SUMMERTIME TRL	Lafayette, 47909	HAGEN ROBERT J DEBORAH J	Same as Parcel Address
25	2105 SUMMERTIME TRL	Lafayette, 47909	HAGEN ROBERT J DEBORAH J	Same as Parcel Address
24	2009 SUMMERTIME TRL	Lafayette, 47909	TENINTY MICHAEL & SHARON L	Same as Parcel Address
23	2005 SUMMERTIME TRL	Lafayette, 47909	COPLEY SHAUN M	Same as Parcel Address
27	1851 SUMMERTIME TRL	Lafayette, 47909	BUCKLEY ROBERT W TRUST ANN TRUST	1842 Summertime Trail, Suite 17, Lafayette, IN 47905
19	1851 SUMMERTIME TRL	Lafayette, 47909	SULLIVAN PAPPAS PROPERTIES LLC	21246 Prado Cir., Huntington Beach, CA 92648
4		Lafayette, 47909	MILL CREEK HOME OWNERS ASSOCIATION	PO Box 2332, West Lafayette, IN 47996
6		Lafayette, 47910	LAFAYETTE CITY OF	20 6th St., Lafayette, IN 47901

Notes:

VACANT PARCELS

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SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD\_IMAGERY. LAST ACCESSED: 3/6/2019  
 IMAGE DATE: 03/12/2011



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ARCONIC INC. - LAFAYETTE OPERATIONS  
 ELLIOTT DITCH REACHES 1-3  
 COMMUNITY RELATIONS PLAN  
 LAFAYETTE, INDIANA

REACH 3

DRAWN BY:	GDS	CHECKED BY:	GAW	APPROVED BY:	JMB*	FIGURE NO:
DATE:	MARCH 06, 2019	DWG SCALE:	1" = 500'	PROJECT NO:	172-367.0012	<b>1C</b>

Signature on File \*

**TABLE 1C**  
**ELLIOTT DITCH - REACH 3 PROPERTY OWNERS**  
**LAFAYETTE, INDIANA**

Map ID	Parcel Address	City, Zip Code	Owner	Owner Mailing Address
44	18TH ST	Lafayette, 47909	TIPPECANOE COUNTY COMMISSIONERS	20 3RD St., Lafayette, IN 47901
42	18TH ST	Lafayette, 47909	TIPPECANOE COUNTY COMMISSIONERS	20 3RD St., Lafayette, IN 47901
46	1341 WINDMILL DR	Lafayette, 47909	CLEGG ROBERT & ALLISON M	Same as Parcel Address
40	3114 THOMAS DR	Lafayette, 47909	NORMAN PHILLIP ALAN & CHRISTIN VICTORIA	Same as Parcel Address
38	3116 THOMAS DR	Lafayette, 47909	SERRA BASIL DONNA F	Same as Parcel Address
43	1337 WINDMILL DR	Lafayette, 47909	GEORGE & KATY ADE	Same as Parcel Address
4	3120 THOMAS DR	Lafayette, 47909	KYLE J HIATT	Same as Parcel Address
34	3122 THOMAS DR	Lafayette, 47909	RYAN BENJAMIN RADBEL	Same as Parcel Address
33	3124 THOMAS DR	Lafayette, 47909	STEPHEN & SUSAN BEAM	Same as Parcel Address
41	1333 WINDMILL DR	Lafayette, 47909	ANTHONY RYAN & SARA N BLACKBURN	Same as Parcel Address
39	1329 WINDMILL DR	Lafayette, 47909	TAYLOR ANNE MARIE	Same as Parcel Address
32	3126 THOMAS DR	Lafayette, 47909	SCOTT & JOLENE FREEMAN	Same as Parcel Address
31	3128 THOMAS DR	Lafayette, 47909	RITCHIE LAWRENCE M & BRIDGET	Same as Parcel Address
30	3130 THOMAS DR	Lafayette, 47909	CAROL S & LARRY WADAMS	Same as Parcel Address
37	1325 WINDMILL DR	Lafayette, 47909	MARK A EASTMAN	1323 Windmill Dr., Lafayette, IN 47909
36	1323 WINDMILL DR	Lafayette, 47909	MARK A & LINDA S EASTMAN	Same as Parcel Address
29	3202 THOMAS DR	Lafayette, 47909	JUDGE RUSSELL R CYNTHIA A	Same as Parcel Address
0	3204 THOMAS DR	Lafayette, 47909	JOHNSON CHARLES F TERESA L	3208 Thomas Dr., Lafayette 47909
26	3208 THOMAS DR	Lafayette, 47909	JOHNSON CHARLES F TERESA L	Same as Parcel Address
35	1321 WINDMILLDR	Lafayette, 47909	THINNES DEBRA K	Same as Parcel Address
1	80 WINDMILL CT	Lafayette, 47909	SHOEMAKER RUSSELL S CONNIE K	Same as Parcel Address
3	3210 THOMAS DR	Lafayette, 47909	TIMMONS CHARLES H JANET G	Same as Parcel Address
2	3212 THOMAS DR	Lafayette, 47909	CAVANAUGH THOMAS J & DIANA C	Same as Parcel Address
28	70 WINDMILL CT	Lafayette, 47909	SCHULTZ DAVID LYNN MARY G	Same as Parcel Address
24	3216 THOMAS DR	Lafayette, 47909	GRIFFIN STEPHEN J & AMANDA J	Same as Parcel Address
19	3218 THOMAS DR	Lafayette, 47909	ANDERSEN BENTLEY KATHY S	Same as Parcel Address
21	30 THOMAS CT	Lafayette, 47909	HELD SHARON JO	Same as Parcel Address
27	60 WINDMILL CT	Lafayette, 47909	NEWCOMB KENNETH A & MICHELLE L	Same as Parcel Address
20	40 THOMAS CT	Lafayette, 47909	BOLYARD RICHARD W & PAMELA E	Same as Parcel Address
5	50 THOMAS CT	Lafayette, 47909	TARTER JACK W ET AL	Same as Parcel Address
45	300 S	Lafayette, 47909	PSI ENERGY INC	550 Tryon St., Charlotte, NC 28202
25	3567 CANTERBURY DR	Lafayette, 47909	MAICKEL ROGER P LOIS L	Same as Parcel Address
22	3563 CANTERBURY DR	Lafayette, 47909	BOWMAN MARK D BARBARA B	Same as Parcel Address
17	3559 CANTERBURY DR	Lafayette, 47909	WUERTEMBERGER ERIC & DESIRE'	Same as Parcel Address
10	1008 SOUTHERNVIEW DR	Lafayette, 47909	ANDERSON MONTE W & TRACIE D	Same as Parcel Address
13	1004 SOUTHERNVIEW DR	Lafayette, 47909	STEWART C ROBERT & KAREN J CO-TTEES	Same as Parcel Address
12	1000 SOUTHERNVIEW DR	Lafayette, 47909	COCHRAN JAMES L & SHEILA A	Same as Parcel Address
8	3555 CANTERBURY DR	Lafayette, 47909	BOLLOCK JAMES M LORI L	Same as Parcel Address
7	3551 CANTERBURY DR	Lafayette, 47909	LONG RUSSELL A	Same as Parcel Address
6	3547 CANTERBURY DR	Lafayette, 47909	DRESCH LARRY D JOYCE E	4301 Fiddlesticks Dr., Lafayette, IN 47909-2015
9	3543 CANTERBURY DR	Lafayette, 47909	LOGAN KIM M LYNDA S	Same as Parcel Address
11	928 SOUTHERNVIEW DR	Lafayette, 47909	ADAMS EDWARD M & JEAN G	Same as Parcel Address
14	924 SOUTHERNVIEW DR	Lafayette, 47909	POTTS DAVID R PATRICIA A	Same as Parcel Address
15	920 SOUTHERNVIEW DR	Lafayette, 47909	DULIN JOHN & TANYA	Same as Parcel Address
23	3539 CANTERBURY DR	Lafayette, 47909	ALTER CHRISTOPHER R & JENNIFER E	Same as Parcel Address
16	3565 9TH ST	Lafayette, 47909	SULLIVAN DONALD S & KAREN W	Same as Parcel Address
18	3547 9TH ST	Lafayette, 47909	POST SUZETTE L	Same as Parcel Address

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**APPENDIX II**  
**EXAMPLE OUTREACH LETTER**

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MONTH DAY, 2020

Property Owner Name  
Property Address  
Lafayette, Indiana 47905

Dear Property Owner:

Subject: Arconic Lafayette Operations  
Elliott Ditch Investigation and Cleanup Activities  
Status Update and Public Meeting Notice

Arconic Inc. (Arconic), formerly Alcoa Inc., is providing you this informational letter regarding upcoming environmental cleanup activities at Elliott Ditch. Arconic intends to implement cleanup measures to address polychlorinated biphenyls (PCBs) impacts to soil within the levee along Elliott Ditch (see attached Figure 1). A work plan outlining the cleanup approach has been submitted to the Indiana Department of Environmental Management (IDEM) and the U.S. Environmental Protection Agency (U.S. EPA) Region 5 for review and approval. This work plan is the first in a series of steps that will be taken to address PCB-impacted soil and sediment near and within Elliott Ditch that are believed to be associated with historical PCB releases from the Arconic Lafayette Operations (Facility) Outfall 001. This outfall is permitted to discharge storm water runoff and treated process water from the Facility. A fact sheet has also been attached to this memo summarizing background information, project next steps, environmental and health impacts, and project contact information. These activities will be completed in accordance with a regulatory cleanup program under the supervision and with approval from the IDEM and the U.S. EPA Region 5.

Elliott Ditch, located in proximity to your property, receives industrial water discharges from various industrial sources, including the Facility. Arconic has conducted a progression of environmental investigations of Elliott Ditch, the most recent of which focused on a 1.59 mile section immediately downstream of Arconic's permitted outfall. The outfall is located approximately 1-mile downstream (i.e., south) of the Facility. This investigation, summarized in the IDEM Virtual File Cabinet ([vfc.idem.in.gov](http://vfc.idem.in.gov), Document No. 82630193), identified PCB impacts to soil and sediment within and along the levee of Elliott Ditch. Arconic is preparing to begin cleanup of identified impacts along the levee as an initial step in the work plan. Additional work is planned to be conducted in later phases to address PCB impacted sediment within the ditch.

Arconic is committed to working with private property owners to keep you informed of planned investigation and cleanup activities, and the results, and will work to avoid unnecessary inconvenience. Arconic will host a public meeting on [DATE] at [LOCATION] in Lafayette, Indiana. The purpose of this public meeting is to present Elliott Ditch background information, discuss investigation work completed to date, provide an overview of the levee work plan, property access updates, and a tentative project schedule. Representatives from the U.S. EPA and the IDEM will be available at this meeting to answer questions.





If you have any questions regarding the public meeting, or the information provided herein, please contact our hotline at 317-613-4514, or email [ElliottDitchQuestions@gmail.com](mailto:ElliottDitchQuestions@gmail.com).

Arconic greatly appreciates your time and willingness to support this effort, and we look forward to speaking with you about the upcoming cleanup and investigation activities.

Sincerely,

Arconic Designated Representative

Enclosures

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**APPENDIX III**  
**LOCAL GOVERNMENT UNITS**  
**(TABLE 2)**

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**TABLE 2**  
**AFFECTED LOCAL GOVERNMENTAL UNITS**  
**LAFAYETTE, INDIANA**

Governmental Unit	Prefix	First Name	Last Name	Suffix	Title	Address*	Phone
City of Lafayette Engineering and Public Works		Jeromy	Grenard	PE, PTOE	City Engineer	20 N 6th Street	(765) 807-1000
City of Lafayette Fire Department		Richard	Doyle		Fire Chief	443 N 4th Street	(765) 807-1600
City of Lafayette Police Department		Pat	Flannelly		Police Chief	20 N 6th Street	(765) 807-1000
Lafayette Renew		Brad	Talley		Superintendent	1700 Wabash Avenue	(765) 807-1800
Mayor's Office	Mayor	Tony	Roswarski		Mayor	20 N 6th Street	(765) 807-1002
State Representative - House District 27		Sheila	Klinker		State Representative	200 W. Washington Street, Indianapolis, IN 46204	(800) 382-9842
State Senator - Senate District 7		Brian	Buchanan		State Senator	200 W. Washington Street, Indianapolis, IN 46204	(800) 382-9467
Tippecanoe County Health Department		Jeremy	Adler	M.D.	Health Officer	20 N 3rd Street	(765) 423-9221
Tippecanoe County Surveyor's Office		Zach	Beasley		County Surveyor	20 N 3rd Street	(765) 423-9228
Tippecanoe County Sheriff		Robert	Goldsmith		Sheriff	2640 Duncan Road	(765) 423-9388
Tippecanoe County Soil & Water Conservation District		Chris	Remley		District Administrator	1812 Troxel Drive	(765) 474-9992

Notes:

\* - City, state, and zip code is Lafayette, Indiana, 47901 unless otherwise noted

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**APPENDIX IV  
FACT SHEET**

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## FACT SHEET

# Elliott Ditch Project Activities

## Spring/Summer of 2020

Question or Comments, Call 24 hours a day (317) 613-4514 or e-mail at ElliottDitchQuestions@gmail.com

### **Background Information:**

- Arconic Lafayette Operations (formerly Alcoa) submitted a work plan to the Indiana Department of Environmental Management (IDEM) and U.S. Environmental Protection Agency (U.S. EPA) Region 5 for review and approval of environmental cleanup activities for Elliott Ditch.
- Polychlorinated biphenyls (PCBs) were used widely by electrical utilities and manufacturing industries across the nation as coolants, lubricants, electrical fluids, and in fire retardant materials from the 1950s to the early 1970s. PCBs were valued for their insulating qualities and were considered an important tool in safeguarding employees and public against fire risks.
- The Arconic Lafayette Operations phased out the use of PCB containing materials in the mid-1970s.
- Previous investigations conducted by the U.S. EPA and Arconic revealed historical PCB impacts to some overbank (soil) and sediment deposits in Elliott Ditch.
- The highest concentrations of PCBs, and widest extent of impacts in soil, were observed on the levee in Reach 1. Figure 1 has been attached depicting Reach 1 and the approximate extents of the levee.
- The work plan proposes the removal of PCB impacted soils from the levee, exceeding the cleanup objective of 1.0 mg/Kg, for offsite disposal at an appropriately permitted landfill.
- Arconic intends to implement future investigation and cleanup activities following the successful completion of the levee project, likely beginning in 2021, to address identified PCB impacts to soil and sediment within Elliott Ditch.

### **Next Steps:**

- A copy of the IMWP can viewed on the IDEM's Virtual File Cabinet ([vfc.idem.in.gov](http://vfc.idem.in.gov), Document No. 82630193), or available in the project record repository maintained electronically at <http://elliottditchproject.cecinc.com>.
- Public computer and internet access is available at the Tippecanoe County Public Library – South Branch located at 3715 S 18th Street, Lafayette, Indiana. This can be used to view project- related documents.
- Cleanup of the levee is scheduled to begin in spring, 2020.
- Arconic will be contacting residents and businesses to request permission to access their properties, and in some places, to access the ditch in support of the cleanup effort.
  - Property owners aiding in this investigation will be asked to sign a property access agreement.
  - Work undertaken related to the cleanup will be paid for by Arconic.
  - Following the completion of cleanup activities, private property will be restored to conditions equal to, or better, than preconstruction activities.

### **Environmental and Health Impacts:**

Specific questions about health impacts of PCBs should be directed to the U.S. EPA or IDEM. For more information regarding PCBs, visit the Agency for Toxic Substances and Disease Registry's website at <https://www.atsdr.cdc.gov/toxfaqs/tf.asp?id=140&tid=26>.




### **Project Contact Information:**

- The public may leave a message with their questions and concerns regarding investigations or cleanup activities at (317) 613-4514 or ElliottDitchQuestions@gmail.com.
- Regulatory contacts for the project are:
  - Mr. Donald Stilz, IDEM Project Manager, at (317) 232-3409 or [dstilz@idem.IN.gov](mailto:dstilz@idem.IN.gov).
  - Ms. Jean Greensley, U.S. EPA Region 5 Project Manager, at (312) 353-1171 or [greensley.jean@epa.gov](mailto:greensley.jean@epa.gov).
- The news media may contact Tracie Gliozzi at Tracie.Gliozzi@arconic.com.
- Additional information is available on the project website <http://elliottditchproject.cecinc.com>.

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**Legend**

-  Outfall 001
-  Elliott Ditch
-  Levee

SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: [HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD\\_IMAGERY](http://gto.arcgis.com/maps/world_imagery). LAST ACCESSED: 2/20/2019  
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ARCONIC INC. - LAFAYETTE OPERATIONS  
 ELLIOTT DITCH REACH 1  
 LEVEE REMEDIATION  
 LAFAYETTE, INDIANA

**LEVEE LOCATION OVERVIEW**

DRAWN BY: DMM	CHECKED BY: JMB	APPROVED BY: TLM*	FIGURE NO: 1
DATE: FEBRUARY 20, 2019	DWG SCALE: 1" = 500'	PROJECT NO: 172-367.0011	

Signature on File \*