APPENDIX A
DESIGN SUBSURFACE SEDIMENT CHARACTERIZATION SUPPORTING DOCUMENTS

Index of Attachments

Attachment 1 – Chain of Custody Forms

Attachment 2 – Core Collection Forms

Attachment 3 – Core Processing Forms

Attachment 4 – Organics Analysis Data Sheets

PCBs

TS/TOC

Attachment 5 – Validation Reports

25302

25449

25647

25671

25729

26059

26099

26214

26289

EMJ014207

Chain of Cust[illegible] Record & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: 11021 6 Feb 16, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-215SC-0001-11021 6	11021 6 1130	SED	3			X	
2	JVE-215SC-0102-11021 6	11021 6 1132	SED	3			X	
3	JVE-215SC-0203-11021 6	11021 6 1135	SED	3	X	X	X	Push - 48 hrs
4	JVE-215SC-0304-11021 6	11021 6 1138	SED	3	X	X	X	
5	JVE-215SC-0405-11021 6	11021 6 1140	SED	3	X	X	X	
6	JVE-215SC-0506-11021 6	11021 6 1145	SED	3	X	X	X	
7	JVE-215SC-0607-11021 6	11021 6 1150	SED	3	X	X	X	
8	JVE-215SC-0708-11021 6	11021 6 1155	SED	3	X	X	X	
9	JVE-215SC-0809-11021 6	11021 6 1200	SED	3	X	X	X	
10	JVE-215SC-0910-11021 6	11021 6 1205	SED	3	X	X	X	
11	JVE-215SC-1011-11021 6	11021 6 1210	SED	3	X	X	X	
12	JVE-215SC-1112-11021 6	11021 6 ~~1220~~ 1215	SED	3	X	X	X	

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By: [signature] / C. Oretko	Company: ARI
[signature] / Joy Dunay	2/16/2011 1615		2/16/11 1615
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Chain of Custody Record & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: 1102 16
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-215SC-~~1213~~ 1208-1102 16	1102 16 1220	SED	3	X	X	X	Rush
2	~~JVE-215SC-13__-1102~~	~~1102__~~	~~SED~~					
3	JVE-1215SC-0607-110216	1153		2	X	X		Rush
4								
5								
6								
7								
8								
9								
10								
11								
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARL
Joy Dunning / Joy Dunning	2/16/2011 1615		2/16/11 1642
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

EMJ014209

Chain of Custo[illegible] [illegible]ecord & Laboratory Analysis Request COC#

ANCHOR QEA

Date: 1102 Feb 16 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-210SC-0001-110216	110216 0930	SED	3			X	
2	JVE-210SC-0102-110216	110216 0940	SED	3			X	
3	JVE-210SC-0203-110216	110216 0950	SED	3	X	X	X	Rush 48 hr
4	JVE-210SC-0304-110216	110216 0955	SED	3	X	X	X	
5	JVE-210SC-0405-110216	110216 1000	SED	3	X	X	X	
6	JVE-210SC-0506-110216	110216 1001	SED	3	X	X	X	
7	JVE-210SC-0607-110216	110216 1005	SED	3	X	X	X	
8	JVE-210SC-0708-110216	110216 1010	SED	3	X	X	X	
9	JVE-210SC-0809-110216	110216 1015	SED	3	X	X	X	
10	JVE-~~205~~ 210SC-0910-110216	110216 1020	SED	3	X	X	X	
11	JVE-210SC-1011-110216	110216 1025	SED	3	X	X	X	
12	JVE-~~205~~ 210SC-1112-110216	110216 1030	SED	3	X	X	X	

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By: [signature] / C. CREIRO	Company: ARI 1615
[signature] / Joy Duray 2/16/2011	1615		2/16/11 1615
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

EMJ014210

Chain of Custody Record & Laboratory Analysis Request COC#

Date: 1102 16 Feb 16th 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

ANCHOR QEA

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-210SC-~~1213~~ 1212.5 1102 16	1102 16 1035	SED	3	X	X	X	Rush 48 hr.
2	~~JVE-210SC-13 1102~~	1102	SED					
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Joy Dunay 2/16/2011 1615		2/16/11 1615	
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

EMJ014211

Chain of Custody Record & Laboratory Analysis Request COC#

ANCHOR QEA

Date: ~~1102~~ Feb 16, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-207SC-0001-110216	110216 1435	SED	3			X	
2	JVE-207SC-0102-110216	110216 1440	SED				X	
3	JVE-207SC-0203-110216	110216 1445	SED		X	X	X	Rush 48 hr
4	JVE-207SC-0304-110216	110216 1450	SED		X	X	X	
5	JVE-207SC-0405-110216	110216 1455	SED		X	X	X	
6	JVE-207SC-0506-110216	110216 1500	SED		X	X	X	
7	JVE-207SC-0607-110216	110216 1505	SED		X	X	X	
8	JVE-207SC-0708-110216	110216 1510	SED		X	X	X	
9	JVE-207SC-0809-110216	110216 1515	SED		X	X	X	
10	JVE-207SC-0910-110216	110216 1520	SED		X	X	X	
11	JVE-207SC-1011-110216	110216 1525	SED		X	X	X	
12	JVE-207SC-1112-110216	110216 1530	SED		X	X	X	
	JVE-207SC-1212.6-110216	110216 1535	SED		X	X	X	

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Joy Dunay / Joy Dunay	2/16/2011 1615	[signature] / C. CRETRO	2/16/11 16:15
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

EMJ014212

Chain of Custo ecord & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: ~~1102~~ Feb 17, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-205SC-0001-1102 17	1102 17 0840	SED	3			X	
2	JVE-205SC-0102-1102	1102 0842	SED				X	
3	JVE-205SC-0203-1102	1102 0845	SED		X	X	X	Rush 48hrs
4	JVE-205SC-0304-1102	1102 0848	SED		X	X	X	
5	JVE-205SC-0405-1102	1102 0850	SED		X	X	X	
6	JVE-205SC-0506-1102	1102 0855	SED		X	X	X	
7	JVE-205SC-0607-1102	1102 0900	SED		X	X	X	
8	JVE-205SC-0708-1102	1102 0905	SED		X	X	X	
9	JVE-205SC-0809-1102	1102 0910	SED		X	X	X	
10	JVE-205SC-0910-1102	1102 0915	SED		X	X	X	
11	JVE-205SC-1011-1102	1102 0920	SED		X	X	X	
12	JVE-205SC-~~1112~~ 1102-1102 2	1102 0925	SED	1	X	X	X	

Analytical Parameters

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Joy Dunay	2/17/11 1440		2/17/11 1440
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014213

Chain of Custo .ecord & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: ~~1102~~ Feb 17th
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-309SC-0001-1102 17	1102 17	SED	3			X	
2	JVE-309SC-0102-1102 17	1102	SED				X	
3	JVE-309SC-0203-1102 17	1102	SED				X	
4	JVE-309SC-0304-1102 17	1102	SED				X	
5	JVE-309SC-0405-1102 17	1102	SED				X	
6	JVE-309SC-0506-1102 17	1102	SED		X	X	X	Rush 48 hr
7	JVE-309SC-0607-1102 17	1102	SED		X	X	X	
8	JVE-309SC-0708-1102 17	1102	SED		X	X	X	
9	JVE-309SC-0809-1102 17	1102	SED		X	X	X	
10	JVE-309SC-0910-1102 17	1102	SED		X	X	X	
11	JVE-309SC-1011-110217	1102			X	X	X	
12	JVE-309SC-1111.5-110217	1102			X	X	X	

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Jorgen Dunay / Jay Dunay 2/17/11 1440		2/17/11 1440	
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014214

Chain of Custo[illegible] [illegible]ecord & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: ~~1102~~ Feb 17, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-1205SC-0203-110217	2/17/11 0846	SED	2	X	X		Rush
2	JVE-1309SC-0910-110217	1 1218	1	2	X	X		
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Jorgen Dunay / Joy Dunay	2/17/2011 1440	[signature]	2/17/11 1440
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014215

Chain of Custo .ecord & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: ~~1102~~ Feb 17, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-311SC-0001-1102~~17~~	1102~~17~~ 1340	SED	3			X	
2	JVE-311SC-0102-1102~~17~~	1102 1345	SED				X	
3	JVE-311SC-0203-1102~~17~~	1102 1350	SED				X	
4	JVE-311SC-0304-1102~~17~~	1102 1355	SED				X	
5	JVE-311SC-0405-1102~~17~~	1102 1400	SED				X	
6	JVE-311SC-0506-1102~~17~~	1102 1405	SED		X	X	X	Rush 48 hr
7	JVE-311SC-0607-1102~~17~~	1102 1410	SED		X	X	X	
8	JVE-311SC-0708-1102~~17~~	1102 1415	SED		X	X	X	
9	JVE-311SC-~~0809~~ 0909-1102~~17~~	1102 1420	SED		X	X	X	
10	~~JVE-311SC-0910-1102~~	~~1102~~	~~SED~~					
11								
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Signature/Printed Name: Joy Dunning	Date/Time: 2/17/2011 1440	Signature/Printed Name:	Date/Time: 2/17/11 1440

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014216

Chain of Custody Record & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: ~~1102~~ Feb 17, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°c	Comments
1	JVE-320SC-0001-110217	110217 1500	SED	3			X	
2	JVE-320SC-0102-110217	1102 1505	SED				X	
3	JVE-320SC-0203-110217	1102 1510	SED				X	
4	JVE-320SC-0304-110217	1102 1515	SED				X	
5	JVE-320SC-0405-110217	1102 1520	SED				X	
6	JVE-320SC-0506-110217	1102 1525	SED		X	X	X	Rush 48 hr
7	JVE-320SC-0607-110217	1102 1530	SED		X	X	X	
8	JVE-320SC-0708-110217	1102 1535	SED		X	X	X	
9	JVE-320SC-0809-110217	1102 1540	SED		X	X	X	
10	JVE-320SC-0910-110217	1102 1545	SED		X	X	X	
11	JVE-320SC-1011-110217	1550			X	X	X	
12	JVE-320SC-1112-110217	1555			X	X	X	

1 See SAP for analyte lists and required methods and reporting limits

2 email sample confirmation report to labdata@anchorqea.com

3

4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Signature/Printed Name: Jon Dunay	Date/Time: 2/17/2011 1628	Signature/Printed Name:	Date/Time: 2/17/11 1628

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014217

Chain of Custody Record & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: ~~1102~~ Feb 17, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-3205C-1212.9-110217	2/17/11 1600	SFD	3	X	X	X	Rush 48 hrs
2	JVE-1320SC-0304-110217	⊥ 1517	⊥	2			X	
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Jorgensen Dunay / Joy Dunay	2/17/2011 1628	[signature]	2/17/11 1628
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014218

Chain of Custo ecord & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: ~~1102~~ Feb 17, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-316SC-0001-1102 17	1102 17 1005	SED	3			✓	
2	JVE-316SC-0102-1102 17	1102 1010	SED				X	
3	JVE-316SC-0203-1102 17	1102 1015	SED				X	
4	JVE-316SC-0304-1102 17	1102 1020	SED				X	
5	JVE-316SC-0405-1102 17	1102 1025	SED				X	
6	JVE-316SC-0506-1102 17	1102 1030	SED		X	X	✓	Rush - 48hrs
7	JVE-316SC-0607-1102 17	1102 1035	SED		X	X	✓	
8	JVE-316SC-0708-1102 17	1102 1040	SED		X	X	X	
9	JVE-316SC-0809-1102 17	1102 1045	SED		X	X	X	
10	JVE-316SC-~~0910~~ 0910-1102 17	1102 1050	SED		X	X	X	
11								
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Signature/Printed Name: Jorgen Ovrum / Jay Dunaway	Date/Time: 2/17/2011 1440	Signature/Printed Name:	Date/Time: 2/17/11 1440

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014219

Chain of Custody Record & Laboratory Analysis Request COC#

ANCHOR QEA

Date: ~~1102~~ Feb 18, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-314SC-0001-1102 18	1102 18 0840	SED	3			X	
2	JVE-314SC-0102-1102 18	1102 0845	SED				X	
3	JVE-314SC-0203-1102 18	1102 0850	SED				X	
4	JVE-314SC-0304-1102 18	1102 0855	SED				X	
5	JVE-314SC-0405-1102 18	1102 0900	SED				X	
6	JVE-314SC-0506-1102 18	1102 0905	SED		X	X	X	Rush
7	JVE-314SC-0607-1102 18	1102 0910	SED		X	X	X	
8	JVE-314SC-~~0708~~ 0709-1102 18	1102 0915	SED		X	X	X	
9	~~JVE-314SC-0809-1102~~	1102	SED					
10	~~JVE-314SC-0910-1102~~	1102	SED					
11	JVE-BKHSC-0506-110218	110218 0905	SED		X	X		Rush
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Signature/Printed Name: [illegible]	Date/Time: 2/18/11 1200	Signature/Printed Name: A. Voggardsen	Date/Time: 2/18/11 1200

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014220

Chain of Custody Record & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: 1102 Feb 18, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-216SC-0001-1102 18	1102 18 0940	SED	3			X	
2	JVE-216SC-0102-1102	1102 0945	SED				X	
3	JVE-216SC-0203-1102	1102 0950	SED				X	
4	JVE-216SC-0304-1102	1102 0955	SED				X	
5	JVE-216SC-0405-1102	1102 1000	SED				X	
6	JVE-216SC-0506-1102	1102 1005	SED				X	
7	JVE-216SC-0607-1102	1102 1010	SED				X	
8	JVE-216SC-0708-1102	1102 1015	SED				X	
9	JVE-216SC-0809-1102	1102 1020	SED				X	
10	JVE-216SC-0910-1102	1102 1025	SED				X	
11	JVE-216SC-1011-110218	1020			X	X	X	Rush
12	JVE-216SC-1112.1-110218	1025			X	X	X	

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Signature/Printed Name: Jay Dunney	Date/Time: 2/18/11 1200	Signature/Printed Name: A Volgardsen	Date/Time: 2/18/11 1200

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014221

Chain of Custod_ _cord & Laboratory Analysis Request COC#

ANCHOR QEA

Date: ~~1102~~ Feb 18, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-322SC-0001-1102 18	1102 18 1050	SED	3			X	
2	JVE-322SC-0102-1102 18	1102 1055	SED				X	
3	JVE-322SC-0203-1102 18	1102 1100	SED				X	
4	JVE-322SC-0304-1102 18	1102 1105	SED				X	
5	JVE-322SC-0405-1102 18	1102 1110	SED				X	
6	JVE-322SC-0506-1102 18	1102 1115	SED				X	
7	JVE-322SC-0607-1102 18	1102 1120	SED				X	
8	JVE-322SC-0708-1102 18	1102 1125	SED				X	
9	JVE-322SC-0809-1102 18	1102 1130	SED		X	X	X	Rush
10	JVE-322SC-0910-1102 18	1102 1135	SED		X	X	X	
11	JVE-322SC-1011-1102 18	1102 1140	SED		X	X	X	
12	JVE-322SC-1112.4-1102 18	1102 1145	SED		X	X	X	

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Joyce Dunay / Joy Dunay	2/18/11 12	[signature] Avdgardsen	2/18/11 1200
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014222

Chain of Custody ,ord & Laboratory Analysis Request COC#

ANCHOR QEA

Date: ~~1102~~ Feb 18, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C																Comments
1	JVE-13225C-0708-110218	2/18/11 1128	SED	2			X																
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Joyce Dunny / Joy Dunny 2/18/11	1200	A Vogardsen 2/18/11	1200
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014223

Chain of Custody Record & Laboratory Analysis Request COC#

ANCHOR QEA

Date: ~~1102~~ Feb 18, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-07SC-0001-1102 18	1102 18 1330	SED	3			X	
2	JVE-07SC-0102-1102 18	1102 1335	SED	3			X	
3	JVE-07SC-0203-1102 18	1102 1340	SED	3			X	
4	JVE-07SC-0304-1102 18	1102 1345	SED	3			X	
5	JVE-07SC-0405-1102 18	1102 1350	SED	3			X	
6	JVE-07SC-0506-1102 18	1102 1355	SED	3			X	
7	JVE-07SC-0607-1102 18	1102 1400	SED	3			X	
8	JVE-07SC-0708-1102 18	1102 1405	SED	3			X	
9	JVE-07SC-0809-1102 18	1102 1410	SED	3			X	
10	JVE-07SC-0910-1102 18	1102 1415	SED	3	X	X	X	Rush - 48hr
11	JVE-07SC-1011-1102 18	1102 1420		3	X	X	X	
12	JVE-07SC-1112.2-110218	1102 1425		3	X	X	X	

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Joy Dunay 2/18/11 1605		2/18/11 1605	
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014224

Chain of Cust Record & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: 1102 Feb 18, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-1007SC-0910-110218	2/18/11 1417	2	2	X	X		Bush - 48 hrs
2	JVE-RB-110218	1550	1	1		X		STD Turn
3	JVE-FR-110218	1555	1	1		X		
4								
5								
6								
7								
8								
9								
10								
11								
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Signature/Printed Name: Joy Dunning	Date/Time: 2/18/11 1605	Signature/Printed Name:	Date/Time: 2/18/11 1605

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014225

Chain of Custody Record & Laboratory Analysis Request COC#

ANCHOR QEA

Date: ~~1102~~ Feb 18, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-01SC-0001-1102 18	1102 18 1500	SED	2			X	
2	JVE-01SC-0102-1102 18	1102 18 1505	SED	1			X	
3	JVE-01SC-0203-1102 18	1102 18 1510.	SED	1			X	
4	JVE-01SC-0304-1102 18	1102 18 1515	SED	1			X	
5	JVE-01SC-0405-1102 18	1102 18 1520	SED	1			X	
6	JVE-01SC-0506-1102 18	1102 18 1525	SED	1			X	
7	JVE-01SC-0607-1102 18	1102 18 1530	SED	1			X	
8	JVE-01SC-0708-1102 18	1102 18 1535	SED	1			X	
9	JVE-01SC-0809-1102 18	1102 18 1540	SED	1			X	
10	JVE-01SC-~~0910~~ 0907-1102 18	1102 18 1545	SED	1	X	X	X	Rush 48 hr
11								
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
[signature] / Joy Dunay	2/18/11 1605	[signature]	2/18/11 1605
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014226

Chain of Custo ecord & Laboratory Analysis Request COC#

ANCHOR QEA

Date: 1102 Feb 21, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-02SC-0001-110221	110221 0830	SED	2			X	
2	JVE-02SC-0102-110221	110221 0835	SED				X	
3	JVE-02SC-0203-110221	110221 0840	SED				X	
4	JVE-02SC-0304-110221	110221 0845	SED				X	
5	JVE-02SC-0405-110221	110221 0850	SED				X	
6	JVE-02SC-0506-110221	110221 0855	SED				X	
7	JVE-02SC-0607-110221	110221 900	SED				X	
8	JVE-02SC-0708-110221	110221 905	SED				X	
9	JVE-02SC-0809-110221	110221 910	SED				X	
10	JVE-02SC-~~0910~~ 0996-110221	110221 915	SED		X	X	X	rush - 48 hrs
11	JVE-1002SC-0203-110221	110221 0842	SED	1			X	
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: ARI
Joy Dunay / Joy Dunay	2/21/11 1220	[signature]	2/21/11 1220
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014227

Chain of Custody Record & Laboratory Analysis Request COC#

ANCHOR QEA

Date: ~~1102~~ Feb 21, 2011
Laboratory : ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°C	Comments
1	JVE-03SC-0001-110221	110221 0945	SED	2			X	
2	JVE-03SC-0102-110221	110221 0950	SED	1			X	
3	JVE-03SC-0203-110221	110221 0955	SED	1			X	
4	JVE-03SC-0304-110221	110221 1000	SED	1			X	
5	JVE-03SC-0405-110221	110221 1005	SED	1			X	
6	JVE-03SC-0506-110221	110221 1010	SED	1			X	
7	JVE-03SC-0607-110221	110221 1015	SED	1			X	
8	JVE-03SC-0708-110221	110221 1020	SED	1			X	
9	JVE-03SC-0809-110221	110221 1025	SED	1			X	
10	JVE-03SC-0910-110221	110221 1030	SED	1			X	
11	JVE-03SC-1011-110221	110221 1035	SED	1			X	
	~~JVE-03SC-11-12-110221~~	~~110221 1040~~		~~2~~	X	X	X	PUSH 48 HRS
12	JVE-100SC-0708-110221	110221 1023		1			X	

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company:
Signature/Printed Name: Joy Dinney	Date/Time: 2/21/2011 1220	Signature/Printed Name:	Date/Time: 1220

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014228

Chain of Cus / Record & Laboratory Analysis Request COC#

ANCHOR QEA

Date: ~~1102~~ Feb 21, 2011
Laboratory: ARI
Project Name: Jorgensen Sediment Characterization (vertical extents)
Project Number: 080224-01.01
Project Manager: Ryan Barth
Phone Number: 206.719.3605
Shipment Method: Hand Delivery

Analytical Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	TS/TOC	PCBs	Archive -10°c	Comments
1	JVE-04SC-0001-1102 21	1102 21 1115	SED	2			X	
2	JVE-04SC-0102-1102 21	1102 21 1120	SED				X	
3	JVE-04SC-0203-1102	1102 21 1125	SED				X	
4	JVE-04SC-0304-1102	1102 21 1130	SED				X	
5	JVE-04SC-0405-1102	1102 21 1135	SED				X	
6	JVE-04SC-0506-1102	1102 21 1140	SED				X	
7	JVE-04SC-0607-1102	1102 21 1145	SED				X	
8	JVE-04SC-0708-1102	1102 21 1150	SED				X	
9	JVE-04SC-~~0809~~ 0809.2-1102 21	1102 21 1155	SED	1	X	X	X	Dup. 4 8 WL
10	~~JVE-04SC-0910-1102~~	1102	SED					
11	JVE-1004SC-0607-110221	110221 1148	SED	1			X	
12								

1 See SAP for analyte lists and required methods and reporting limits
2 email sample confirmation report to labdata@anchorqea.com
3
4

Additional notes/comments:

Relinquished By:	Company:	Received By:	Company:
Joy Duperry 2/21/2011 1220	Anchor QEA LLC.	[illegible]	ARI 2/21/11 1220
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page _____ of _____

EMJ014229

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization
Station ID: JVE-210
Job No: 080224-01.01
Attempt No. 1 of 1
Field Staff: DG JJ
Date: 2/15/11
Contractor: MSS
Logged By: DG
Vertical Datum: MLLW
Horizontal Datum: NAD83

Field Collection Coordinates:
Lat/Northing: 47 37.5592
Long/Easting: 122 18.5382

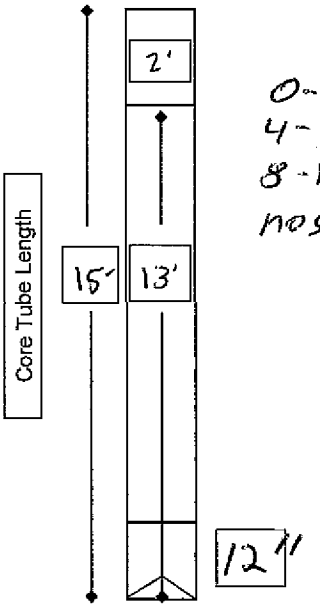
A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -23.0'

B. Water Level Measurements
Time: 1010
Stage: 7.6'
Source: NOAA
Actual: 8.1'

C. Mudline Elevation
-15.4'
Actual = 14.9'

Core Collection Recovery Details:
Core Accepted: Yes / No
Core Tube Length: 15'
Drive Penetration: 14'
Headspace Measurement: 2'
Recovery Measurement: 13'
Recovery Percentage: 92.8%
Total Length of Core To Process:

Recovery Measurements (prior to cuts)



0-4 A
4-8 B
8-12 C
nose 12" length

Drive Notes:
7 ft free fall
full penetration easy to 14'

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota.

nose - clean moist dark SAND in nose - no odor
4' moist moderate stiff SILT with fine sand - no odor
8' Dark olive moist fine SAND with silt - no odor
12' Dark gray SAND with few wood - no odor

Notes:

EMJ014230

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization
Job No: 080224-01.01
Field Staff: DG JJ
Contractor: MSS
Vertical Datum: MLLW

Station ID: JVE 215
Attempt No. 1 of 1
Date: 2/15/11
Logged By: DG
Horizontal Datum: NAD83

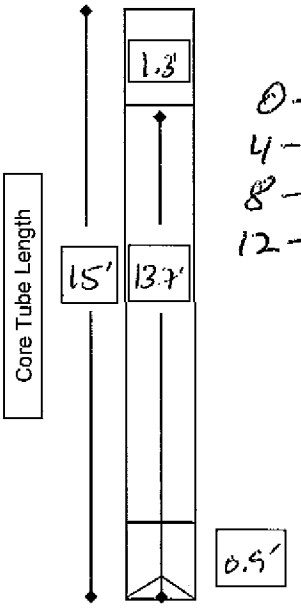
Field Collection Coordinates:
Lat/Northing: 47 31.5756
Long/Easting: 122 18.5425 @1058

A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -22.1'

B. Water Level Measurements
Time: 1055
Stage: 8.2'
Source: NOAA
Actual = 8.7'

C. Mudline Elevation
-13.9'
Actual = -13.4'
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
Core Accepted: (Yes) No
Core Tube Length: 15'
Drive Penetration: 14'
Headspace Measurement: 1.3'
Recovery Measurement: 13.7'
Recovery Percentage: 98%
Total Length of Core To Process:



0-4 A
4-8 - B
8-12 - C
12-12.8

Drive Notes:
5 ft easy, free fall
stiff to 6'
easy to 14'
full penetration

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0 - Soft wet olive silt, no odor
4 - moist mod dense dark olive SILT with sand, no odor
8 - moist mod dense dark olive SILT with fine sand no odor
12 - moist SAND, no odor

6" void in Bottom of core above fingers
12.8 damp clean coarse fine SAND

nose - coarse SAND

Notes:
last 8" capped separately without core nose
core nose not retained as there was a void behind fingers - last 8" section represents Bottom of core.
clean sand

EMJ014231

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization
Job No: 080224-01.01
Field Staff: DG JJ
Contractor: MSS
Vertical Datum: MLLW

Station ID: JVE-207
Attempt No. 1 of 1
Date: 2/15/11
Logged By: DG
Horizontal Datum: NAD83

Field Collection Coordinates:
Lat/Northing: 47.31.5914
Long/Easting: 122 18.5492 1151

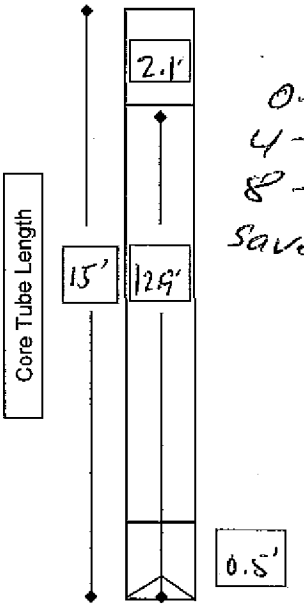
A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -21.0'

B. Water Level Measurements
Time: 1150
Stage: 9.1'
Source: NOAA
Actual = 9.5'

C. Mudline Elevation
-11.9'
Actual = -11.5'

Core Collection Recovery Details:
Core Accepted: (Yes) No
Core Tube Length: 15'
Drive Penetration: 14'
Headspace Measurement: 2.1'
Recovery Measurement: 12.9'
Recovery Percentage: 92%
Total Length of Core To Process:

Recovery Measurements (prior to cuts)



0-4 A
4-8 B
8-12.4 C
Saved 6" of nose

Drive Notes:
easy penetration to full
at 12' hit something hard

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0- Soft Brown wet SILT no odor no sheen
4- med stiff SILT slight H_2S odor dark olive
8- Same as above very slight H_2S
12- Damp gray SAND

Notes:
nose retained for 6"

EMJ014232

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization	Station ID: JVE-205
Job No: 080224-01.01	Attempt No. 1 of 1
Field Staff: DG JJ	Date: 2/15/11
Contractor: MSS	Logged By: DG
Vertical Datum: MLLW	Horizontal Datum: NAD83

Field Collection Coordinates:
Lat/Northing: 47 31.6060 Long/Easting: 122 18.5646 @ 1255

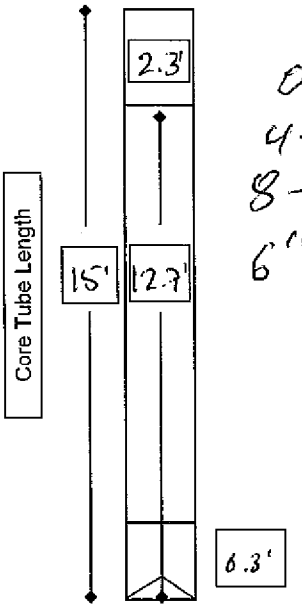
A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -23.1'

B. Water Level Measurements
Time: 1250
Stage: 9.8'
Source: NOAA
Actual = 10.3'

C. Mudline Elevation
-13.3'
Actual = 12.8'

Core Collection Recovery Details:
Core Accepted: (Yes) No
Core Tube Length: 15'
Drive Penetration: 14'
Headspace Measurement: 2.3'
Recovery Measurement: 12.7'
Recovery Percentage: 90.7
Total Length of Core To Process:

Recovery Measurements (prior to cuts)



0-4 A
4-8 B
8-12.4 C
6" of nose

Drive Notes:
7' free fall
7-10 mod
10' hit something hard
~~refusal at 11'~~ hit debris
Broke through to 11'
penetration

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

nose full
0- Soft wet Brown SILT no odor
4- Stiffer olive SILT Damp with Fine Sand
8- moist silty Fine SAND - slight Petrol. odor
12.4- stiff moist dark olive SILT with F. Sand

Notes:
kept 6" of material in nose

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization		Station ID: JVE 316	
Job No: 080224-01.01		Attempt No. 1 of 1	
Field Staff: DG JJ		Date: 2/15/11	
Contractor:	MSS	Logged By: DG	
Vertical Datum:	MLLW	Horizontal Datum:	NAD83

Field Collection Coordinates:
Lat/Northing: 47. 31.6069 Long/Easting: 122 18.5493 @ 1336

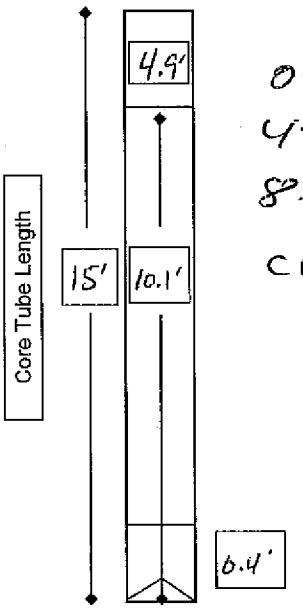
A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -14.8'

B. Water Level Measurements
Time: 1335
Stage: 10.0'
Source: NOAA
Actual = 10.5'

C. Mudline Elevation
-4.8'
Actual = -4.3'
Recovery Measurements (prior to cuts)

4.

Core Collection Recovery Details:
Core Accepted: Yes / No
Core Tube Length: 15'
Drive Penetration: ~~14~~ 13.6'
Headspace Measurement: 4.9'
Recovery Measurement: 10.1'
Recovery Percentage: 75%
Total Length of Core To Process:



0-4
4-8
8-9.7
cut 6" off end.

Drive Notes:
3' free fall,
hit hard at 12'
slow drive to 14'
full penetration

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

nose is empty upon retrieval
0- Soft wet Brown silt slight hydrocarbon odor
slight sheen
4- moist SAND Gray no odor
8- Gray medium SAND no odor
9.7 ~~corse~~ clean SAND with chunks of Sand Stone
no odor

Notes:
No material in nose above Below fingers
9.7 is Bottom of core recovery

EMJ014234

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization
Job No: 080224-01.01
Field Staff: DD- JJ
Contractor: MSS
Vertical Datum: MLLW

Station ID: JVE 309
Attempt No. 1 of 1
Date: 2/15/11
Logged By: DG
Horizontal Datum: NAD83

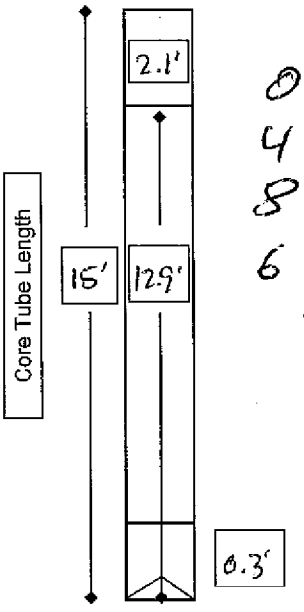
Field Collection Coordinates:
Lat/Northing: 47 31.5947
Long/Easting: 122 18.5406 @ 1421

A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -14.5'

B. Water Level Measurements
Time: 1420
Stage: 9.7'
Source: NOAA
Actual = 10.3'

C. Mudline Elevation
-4.8'
Actual = -4.2'
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
Core Accepted: (Yes) No
Core Tube Length: 15'
Drive Penetration: 14'
Headspace Measurement: 2.1'
Recovery Measurement: 12.9'
Recovery Percentage: 92%
Total Length of Core To Process:



0-4 A
4-8 B
8-12.6 C
6" of nose full of material

Drive Notes:
2' freefall
easy penetration to 14'

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0- wet Sdy Brown Silt, no odor
4- wet sand no odor
8- wet SAND no odor
12.6- wet silty SAND. fingers closed. nose full

Notes:
nose full silty Sand. (below fingers)

EMJ014235

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization		Station ID: JVE-311	
Job No: 080224-01.01		Attempt No. 1 of 1	
Field Staff:		Date: 3/15/11	
Contractor:	MSS	Logged By:	
Vertical Datum:	MLLW	Horizontal Datum:	NAD83

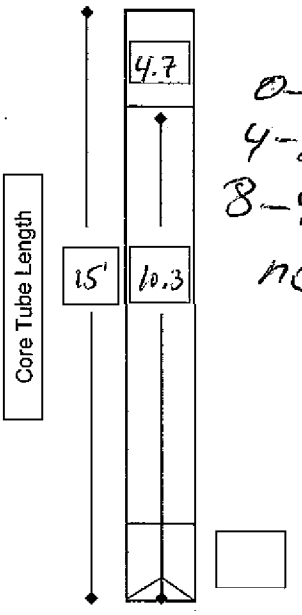
Field Collection Coordinates:
Lat/Northing: 473.5760 Long/Easting: 122 18.5297 @ 1504

A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -13.5'

B. Water Level Measurements
Time: 1505
Stage: 9.0'
Source: NOAA
Actual: 9.5'

C. Mudline Elevation
-4.5'
Actual = -4.0'
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
Core Accepted: Yes / No
Core Tube Length: 15'
Drive Penetration: 13.6'
Headspace Measurement: 57"
Recovery Measurement: 10.3'
Recovery Percentage: 75.7%
Total Length of Core To Process:



0-4 A
4-8 B
8-9.10" C
no material in nosp

Drive Notes:
2.5' freefall
resistance at 2.5
easy penetration to 14'

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0- Soft wet Brown Silt no odor no sheen
4- Black sand, wet, few larger angular 1-2" gravel slight odor and sheen.
8

Notes:
nose empty below fingers

EMJ014236

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization
Job No: 080224-01.01
Field Staff: DG JJ
Contractor: MSS
Vertical Datum: MLLW

Station ID: JVE 320
Attempt No. 1 of 1
Date: 2/15/11
Logged By: DG
Horizontal Datum: NAD83

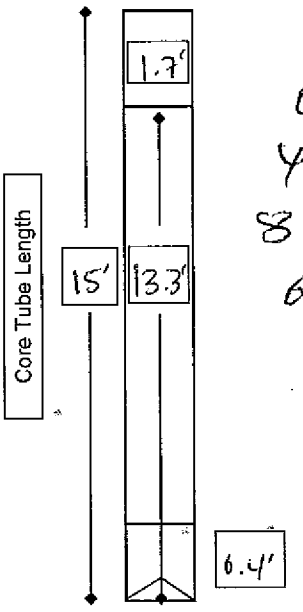
Field Collection Coordinates:
Lat/Northing: 47 31.5641
Long/Easting: 122 18.5210 @ 1541

A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -11.2'

B. Water Level Measurements
Time: 1540
Stage: 8.2'
Source: NOAA
Actual = 8.6'

C. Mudline Elevation
-3.0'
Actual = -2.6'
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
Core Accepted: (Yes) / No
Core Tube Length: 15'
Drive Penetration: 14'
Headspace Measurement: 1.7'
Recovery Measurement: 13.3'
Recovery Percentage: 95%
Total Length of Core To Process:



0-4
4-8
8-12.9'
6" at nose

Drive Notes:
easy penetration all the way to 14'

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0- Soft wet Brown Silt, no odor, sheen
4- Very Silty moist Fine SAND, no odor or sheen
8- Same
12.9 Same

Notes:
Nose full Dark olive Silty fine SAND moist

EMJ014237

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization
Job No: 080224-01.01
Field Staff: DG JJ
Contractor: MSS
Vertical Datum: MLLW

Station ID: JVE-07
Attempt No. 1 of 1
Date: 2/16/11
Logged By: DG
Horizontal Datum: NAD83

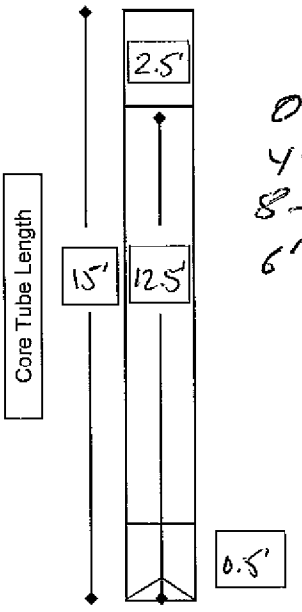
Field Collection Coordinates:
Lat/Northing: 47 31.5598
Long/Easting: 122 18.5244 @ 0829

A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -13.3'

B. Water Level Measurements
Time: 0825
Stage: 6.8'
Source: NOAA
Actual: 7.3'

C. Mudline Elevation
-6.5'
Actual = -6.0'
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
Core Accepted: Yes / No
Core Tube Length: 15'
Drive Penetration: 14'
Headspace Measurement: 2.5'
Recovery Measurement: 12.5'
Recovery Percentage: 89%
Total Length of Core To Process:



0-4 A
4-8 B
8-12 C
6" of nose retained

Drive Notes:
3 ft of free
Steady penetration to full.

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

nose full of woody chunks and sand.
0 - Soft wet brown SILT
4 - moist mod stiff dark olive silty FINE SAND
no odor no sheen
8 - ~~Same~~ Olive wet medium SAND no odor
12 - Same

Notes:

EMJ014238

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization
Job No: 080224-01.01
Field Staff: DG JJ
Contractor: MSS
Vertical Datum: MLLW

Station ID: JVE 314
Attempt No. 1 of 1
Date: 2/16/11
Logged By: DG
Horizontal Datum: NAD83

Field Collection Coordinates:
Lat/Northing: 47 31.5391
Long/Easting: 122 18.5113 @0950

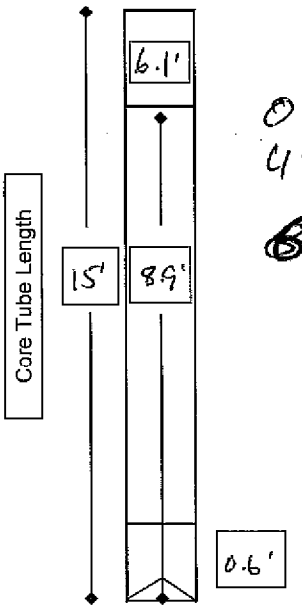
A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -10.9'

B. Water Level Measurements
Time: 0950
Stage: 6.3'
Source: NOAA
Actual: 6.8'

C. Mudline Elevation
-4.6
Actual = -4.1'

Core Collection Recovery Details:
Core Accepted: (Yes) / No
Core Tube Length: 15'
Drive Penetration: 9.5'
Headspace Measurement: 6.1'
Recovery Measurement: 8.9'
Recovery Percentage: 94%
Total Length of Core To Process:

Recovery Measurements (prior to cuts)



0-4 A
4-8.3 B
6" nose

Drive Notes:
2 ft free fall
easy to 9.5 hit hard
at refusal

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

nose with medium wet SAND few wood debris
0- Soft wet Brown SILT no odor no sheen
4- medium gray SAND
8.4- medium SAND no odor
6" of nose the same with wood chips in nose

Notes:

EMJ014239

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization	Station ID: JVE-322
Job No: 080224-01.01	Attempt No. 1 of 1
Field Staff: DG JS	Date: 2/16/11
Contractor: MSS	Logged By: DG
Vertical Datum: MLLW	Horizontal Datum: NAD83

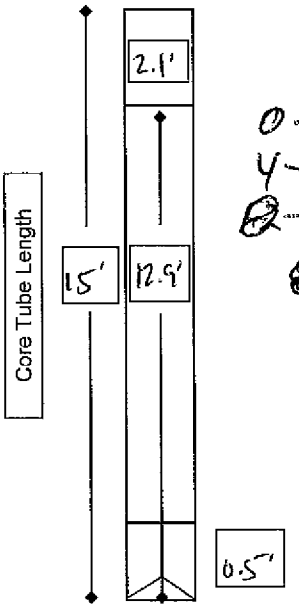
Field Collection Coordinates:
Lat/Northing: 47 31.5519 Long/Easting: 122 18.5359 @ 0911

A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -22.2'

B. Water Level Measurements
Time: 0910
Stage: 6.5'
Source: NOAA
Actual = 6.8'

C. Mudline Elevation
15.7'
Actual = -15.4'
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
Core Accepted: Yes / No
Core Tube Length: 15'
Drive Penetration: 14'
Headspace Measurement: 2.1'
Recovery Measurement: 12.9'
Recovery Percentage: 92%
Total Length of Core To Process:



0-4
4-8
8-12.4"
8" of nose

Drive Notes:
7' free fall
easy to 10'
hard 10-14

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

nose full of medium SAND
0- mod stiff wet sandy SILT no odor no sheen
4- wet stiff silty SAND
8- moist very silty fine SAND no odor no sheen
12.4 medium wet SAND

8" of nose retained

Notes:

EMJ014240

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization	Station ID: JVE 216
Job No: 080224-01.01	Attempt No. 1 of 1
Field Staff: DG JJ	Date: 2/16/11
Contractor: MSS	Logged By: DG
Vertical Datum: MLLW	Horizontal Datum: NAD83

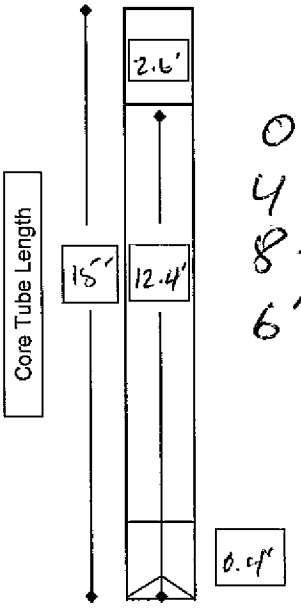
Field Collection Coordinates:
Lat/Northing: 47 31.5300 Long/Easting: 122 18.5203

A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -20.5'

B. Water Level Measurements
Time: 1025
Stage: 6.5'
Source: NOAA
Actual: -7.0'

C. Mudline Elevation
-14'
Actual = -13.5'
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
Core Accepted: (Yes) / No
Core Tube Length: 15'
Drive Penetration: 14'
Headspace Measurement: 2.6'
Recovery Measurement: 12.4'
Recovery Percentage: 89%
Total Length of Core To Process:



0-4 A
4-8 B
8-12 C
6" nose

Drive Notes:
4 feet free fall
4-10 easy
at 10 harder to full

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

nose full of fine Sand with organic matter
0 - Soft wet Brown SILT
4 - medium wet SAND
8 - Poorly Sorted medium SAND
12 - fine SAND with organic silt. Stiff moist no odor

Notes:

EMJ014241

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization		Station ID: JVE-01	
Job No: 080224-01.01		Attempt No. 2 of 2	
Field Staff: DG JJ		Date: 2/16/11	
Contractor: MSS		Logged By: DG	
Vertical Datum: MLLW		Horizontal Datum: NAD83	

Field Collection Coordinates:

Lat/Northing: 47 31.6264 #1
47 31.6254 #2

Long/Easting: 122 18.5650 #1
122 18.5655 #2

A. Water Depth	#1	#2
DTM Depth Sounder:		
DTM Lead Line:	-10.0'	-11.5'

B. Water Level Measurements	#1	#2
Time:	1125	1145
Stage:	7.5'	7.7'
Source:	NOAA	

C. Mudline Elevation	#1	#2
	-2.7'	-3.8'

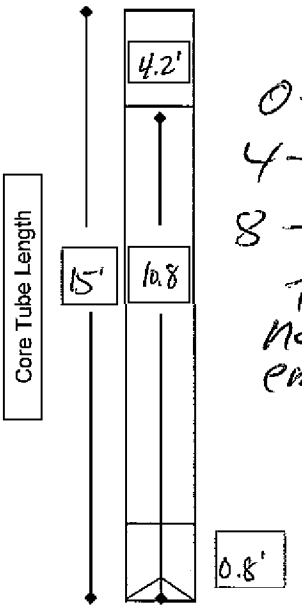
Actual = -3.2'

Core Collection Recovery Details:

	#1	#2
Core Accepted: Yes / No	No	Yes
Core Tube Length:	15'	15'
Drive Penetration:	12.2'	14.'
Headspace Measurement:	8.0'	4.2'
Recovery Measurement:	7.0'	10.8'
Recovery Percentage:	57%	77%
Total Length of Core To Process:		

Actual = 8.3

Recovery Measurements (prior to cuts)



0-4
4-8
8-10
7" of nose not retained empty

Drive Notes:

#1 easy penetration to 12.2 refusal at 12.2

#2 2.5 free fall easy to 13 then stiff to full

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

#1 nose full of sand - Reject

#2 nose full medium coarse SAND - Accept #2
Some loss out nose
0 - Wet Brown Silt with some wood material
slight odor and slight sheen
4 - Gray wet fine SAND
8 - Gray wet SAND
10 - Same

Notes:

Material in nose ran out prior to processing - lost 6" of SAND as above

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization		Station ID:	JVE-02
Job No: 080224-01.01		Attempt No.	2 of 2
Field Staff:	DG JJ	Date:	2/16/11
Contractor:	MSS	Logged By:	DG
Vertical Datum:	MLLW	Horizontal Datum:	NAD83

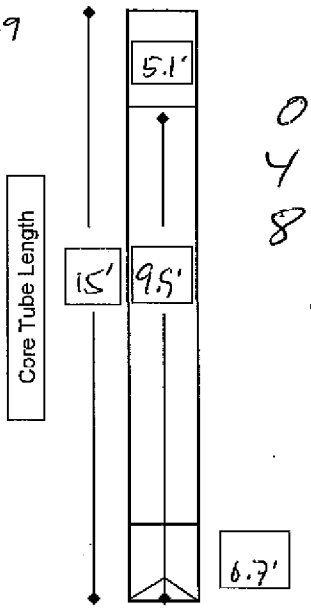
Field Collection Coordinates:

Lat/Northing: 47 31.6167 #1
47 31.6172 #2

Long/Easting: 122 18.5547 #1 1251
122 18.5532 #2 1447

A. Water Depth		**B. Water Level Measurements**		**C. Mudline Elevation**		
DTM Depth Sounder:	#2	Time:	1300 / 1450		-3.1 / -2.3	
DTM Lead Line:	-12.4 / -12.5	Stage:	9.3 / 10.2		#2 Actual = -1.6	
		Source:	NOAA #2 Actual = 10.9		Recovery Measurements (prior to cuts)	

Core Collection Recovery Details:	#1	#2
Core Accepted: Yes / No		Yes
Core Tube Length:	15'	15'
Drive Penetration:	14'	13.7'
Headspace Measurement:	5.9'	5.1'
Recovery Measurement:	9'	9.9'
Recovery Percentage:	65%	72.3%
Total Length of Core To Process:		



0-4
4-8
8-9.2
6" nose

Drive Notes:

#2 2 ft free fall easy to 10' then slow to 13.7'

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

#1 nose full of coarse sand Reject

#2 nose full of SAND - Processed.
0- Soft wet Brown SILT no odor
4- Moist mod Stiff SAND no odor

Notes:

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization	Station ID: JVE-03
Job No: 080224-01.01	Attempt No. 1 of 1
Field Staff: DG JJ	Date: ~~DG~~ 2/16/11
Contractor: MSS	Logged By: DG
Vertical Datum: MLLW	Horizontal Datum: NAD83

Field Collection Coordinates:
Lat/Northing: 47 31.6121 Long/Easting: 122 18.5636 @1317

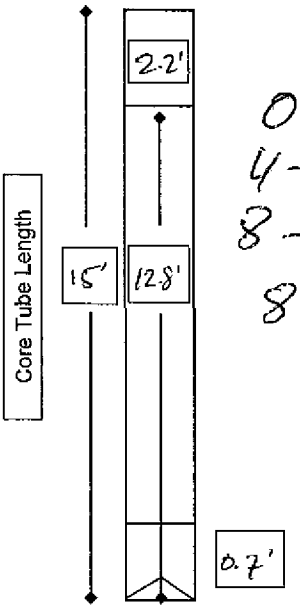
A. Water Depth
DTM Depth Sounder:
DTM Lead Line: 18.5'

B. Water Level Measurements
Time: 1315
Stage: 9.5'
Source: NOAA
Actual = 10.2'

C. Mudline Elevation
-9.0'
Actual = -8.3'

Core Collection Recovery Details:
Core Accepted: (Yes) / No
Core Tube Length: 15'
Drive Penetration: 14'
Headspace Measurement: 2.2'
Recovery Measurement: 12.8'
Recovery Percentage: 91%
Total Length of Core To Process:

Recovery Measurements (prior to cuts)



0-4 A
4-8 B
8-12.7 C
8" nose

Drive Notes:
7' feet fall to stiff and then easy penetration to full

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

nose full of Brown SAND
0- Soft wet Brown silt slight hydrocarbon odor, no sheen
4- moist sandy silt Slight H_2S odor
8- moist silty SAND Slight Hydrocarbon odor
12- mix of SAND (Gray) and Brown sand no odor

Notes:

EMJ014244

ANCHOR QEA

Sediment Core Collection Log

Job: Jorgensen Subsurface Sed. Characterization
Job No: 080224-01.01
Field Staff: DG JJ
Contractor: MSS
Vertical Datum: MLLW

Station ID: JVE 04
Attempt No. 1 of 1
Date: 2/16/11
Logged By: DG
Horizontal Datum: NAD83

Field Collection Coordinates:
Lat/Northing: 47 31.6108
Long/Easting: 122 18.5532 @ 1354

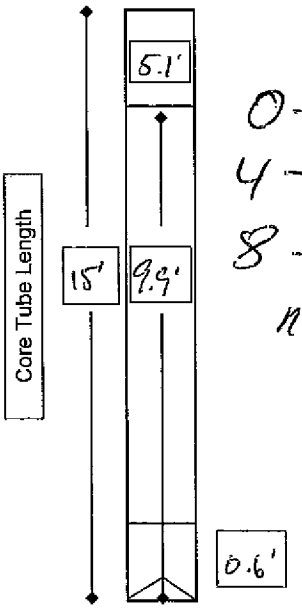
A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -13.5

B. Water Level Measurements
Time: 1350
Stage: 10.2
Source: NOAA
Actual: 10.7

C. Mudline Elevation
-3.3
Actual = -2.8'
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
Core Accepted: (Yes) / No
Core Tube Length: 15'
Drive Penetration: 11.8'
Headspace Measurement: 5.1'
Recovery Measurement: 9.9'
Recovery Percentage: 84%
Total Length of Core To Process:

Drive Notes: 1' free fall
easy penetration to 10 foot. Slow to 11.8



0-4
4-8
8-9.3
nose 6"

Core Field Observations and Description:
Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0 - Soft wet olive SILT, few Blebs of sheen no odor.
4 - Dark olive moist fine SAND
8 - Sand no odor no sheen
9.3 - Poorly sorted medium SAND no odor
same in nose section

Notes:

EMJ014245

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-210 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: 1102 11/6 0900
No. of Sections: 3 + Nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: ~~13~~ 12.7'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 98%	Diameter of Core (inches) 4"
Notes: lab recovery ~~13~~ 12.7'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
1				moist, soft, SILT, dark grey,			JVE-210 SC-0001	
							JVE-210 SC-0102	
2				@2-6.8' dark grey, moist, mediumdense SILT with trace fine sand			JVE-210 SC-0203	
3							JVE-210 SC-0304	
4							JVE-210 SC-0405	
5								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-210 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: 1102 16 0500
No. of Sections: 3+ nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.7'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 93%	Diameter of Core (inches) 4"
Notes: lab recovery = 12.7'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as above			JVE-210 SC-0506	
6							JVE210 SC-0607	
				@ 6.6' fibrous sheet of material				
7				6.8-11.1 Dark grey, damp, medium dense, fine to medium SAND, slightly silty, slight H_2S odor. SAND grains are multi colored @ 7.3-7.6 scattered wood debris @ 7.7-7.9 interbed of SILT			JVE-210 SC-0708	
8							JVE-210 SC-0809	
9							JVE-210 SC-0910	
10								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-210 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: 1102 16 0900
No. of Sections: 3 + nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.7'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 93%	Diameter of Core (inches) 4"
Notes: lab recovery 12.7'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as above			JVE-210 SC-1011	
				@10.3-10.35 interbed of SILT				
11				@10.9-11.1 SAND grades to fine SAND				
				@11.1-12.7 Wood Waste, ~~with fine SAND with~~ with fine SAND, olive grey, sticks and twigs. Wood pieces up to .3 ft x .1 ft (60% W 40% S)			JVE-210 SC-1112	
12							JVE-210 SC-1212.7	
				End of Core @ 12.7'				
13								
14								
15								

Sediment Core Processing Log

ANCHOR QEA

Job:	Jorgensen Sed. Charac.	Station ID:	JVE215
Job No.	080224-01.01	Date/Time:	2/16/11 1100
No. of Sections:	3	Core Logged By:	J.P
Drive Length:	14'	Attempt #:	1
Recovery:	13.7'	Type of Core	☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery:	98%	Diameter of Core (inches)	4"
Notes:	lab recovery = 12.8'	Core Quality	☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				dark grey, moist, soft SILT 0-3 ft			JVE-215SC 0001	
1							JVE-215 SC-0102	
2							JVE-215 SC0203	
3				3'-8.9' Dark grey, moist, medium stiff, SILT with trace fine sand			JVE-215 SC-0304	
4							JVE-215 SC-0405	
5								

EMJ014249

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sed. Characterization	Station ID: JVE-215
Job No. 080224-01.01	Date/Time: 2/16/11 1100
No. of Sections: 3	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 13.7'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 98%	Diameter of Core (inches) 4
Notes: Lab recovery = 12.8'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				SAME AS above			JVE-215 SC-0506	
6							JVE-215 SC-0607	
7				7.1 ~~increases~~ grades to slightly ~~sat~~ ~~STUDY~~ sandy SILT			JVE-215 SC-0708	
8							JVE-215 SC-0809	
9				8.9-9.9' Olive grey, damp, ~~medium~~ stiff clayey SILT with trace fine sand			JVE-215 SC-0910	
10				9.9-12.8' Damp, dense, slightly silty fine to medium SAND. sand grains are multi colored. Dark Grey, with interbeds of silt.				

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sed. Charac.	Station ID: JVE - 215
Job No. 080224-01.01	Date/Time: 2/16/11 1100
No. of Sections: 3	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 13.7'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 98%	Diameter of Core (inches) 4
Notes: lab recovery = 12.8'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
11				SAA			JVE-215 SC-1011	
							JVE-215 SC-1112	
12				@ 12ft trace wood Debris			JVE-215 SC-1212.8	
13				End of Core @ 12.8 (Nose not retained)				
14								
15								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-207SC-1102 16
Job No. 080224-01.01	Date/Time: 1102 16 Feb. 1430
No. of Sections: 3 + Nose	Core Logged By: JMD
Drive Length: 14'	Attempt #: 1
Recovery: 12.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 92%	Diameter of Core (inches) 4"
Notes: lab recovery = 12.6'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Dark grey, moist, soft, SILT ~~OF~~ (0-8')			JVE-207 SC-0001	
1				@ 1-2 ft organic fibers			JVE-207 SC-0102	
2			with	@ 2' Trace Fine Sand ~~SAME AS ABOVE WITH~~			JVE-207 SC-0203	
3							JVE-207 SC-0304	
4				@4 feet grades to medium stiff			JVE-207 SC-0405	
5								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-207 SC-110216
Job No. 080224-01.01	Date/Time: 110216 1430
No. of Sections: 3 + nose	Core Logged By: JMD
Drive Length: 14'	Attempt #: 1
Recovery: 12.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 92%	Diameter of Core (inches) 4
Notes: lab recovery = 12.6'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				SAA			JVE-207 SC-0506	
6							JVE-207 SC-0607	
7							JVE-207 SC-0708	
8				@8 - 8.4' Olive grey, damp, stiff, SILT, with trace fine sand			JVE-207 SC-0809	
				@8.4 - 10 Olive grey, damp, stiff, clayey SILT				
9							JVE-207 SC-0910	
10								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-207 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: 1102 16
No. of Sections: 3+ nose	Core Logged By: JMD
Drive Length: 14'	Attempt #: 1
Recovery: 12.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 92%	Diameter of Core (inches) 4
Notes: lab recovery = 12.6'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				11.8' @10ft Dry, Dense, olive grey, silty very Fine SAND			JVE-207 SC-1011	
11				@10.8 interbed of SILT @11 interbed of ~~silt~~ SILT @11.3 interbed of ~~silt~~ SILT			JVE207 SC-1112	
				12.6' @11.8 Dark grey, Damp, medium dense, fine to medium SAND with Trace silt.			JVE207 SC-1212.6	
13				@ ~~Core~~ End of Core 12.6 ~~+ 0.2 Nose~~				
14								
15								

EMJ014254

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization		Station ID:	JVE-205 ~~SC-1102~~
Job No. 080224-01.01		Date/Time:	~~1102~~ 2/17/2011 0830
No. of Sections:	3+ more	Core Logged By:	JD
Drive Length:	14'	Attempt #:	1
Recovery:	12.7'	Type of Core	☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery:	91%	Diameter of Core (inches)	4"
Notes:	lab recovery = 12.1'	Core Quality	☐ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Dark grey, moist, SOFT, SILT trace organic fibers up until 2 ft. 0-9.2'			JVE-205 SC-0001	
1							JVE-205 SC-0102	
2							JVE-205 SC-0203 JVE-1205 SC-0203	
				@2.6 ~~same as above but~~ becomes medium stiff ~~and~~ with trace sand				
3							JVE-205 SC-0304	
4							JVE-205 SC-0405	
5								

EMJ014255

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-205 ~~SG-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ 2/17/11 0830
No. of Sections: 3 + nose	Core Logged By: JMD
Drive Length: 14'	Attempt #: 1
Recovery: 12.7'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 91%	Diameter of Core (inches) 4
Notes: lab recovery = 12.1'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				SAA			JVE-205 SC-0506	
6							JVE-205 SC-0607	
7							JVE-205 SC-0708	
				9.2' @7.5 grades to slighty sandy SLT ~~all else is the same as 2-6~~				
8							JVE-205 SC-0809	
				@8.5 very slight HC-like? odor				
9				~~@9.0 Slight petroleum odor~~			JVE-205 SC-0910	
				9.7' @9.2 Dark grey, damp, loose, sandy WOOD layer. wood is decaying in small fragments ... 1 large (.3ft) x (.1ft) piece				
				11.7' @9.7 Dark grey, Damp, Dense, silty VF-SAND				
10				@9.9 grades to fine medium sand				

EMJ014256

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-205 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ 2/17/11 0830
No. of Sections: 3 + nose	Core Logged By: JMD
Drive Length: 14'	Attempt #: 1
Recovery: 12.7'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 91%	Diameter of Core (inches) 4
Notes: lab recovery = 12.1'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				same as above			JVE-205 SC-1011	
				@10.6 ~~same as 9.7~~ grades back to VF-SAND				
11							JVE-205 SC-1112.1	
				@11.7 - 12.1 Dark grey, damp, stiff clayey SILT with trace very fine sand.				
12								
				core ends @ 12.1				
13								
14								
15								

EMJ014257

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-316 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb 17, 2011 1000
No. of Sections: 3	Core Logged By: JD
Drive Length: 13.6'	Attempt #: 1
Recovery: 10.1'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 75%	Diameter of Core (inches) 4"
Notes: lab recovery = 9.7'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Olive Grey, wet, very soft, SILT (0-0.5')			JVE-316 #SC-0001	
				@ .5 - 2.0' Dark Grey, moist, soft ~~stiff~~ SILT trace organic fibers				
1							JVE-316 SC-0102	
2				@ 2ft - 3' Dark grey to olive grey, moist medium stiff, SILT with trace fine sand.			JVE-316 SC-0203	
3				@ 3ft - 3.5' Olive Grey, Moist, medium stiff, sandy SILT, sand grains medium coarse with trace fine and coarse gravel. Piece of glass found @ 3.2ft (.3 x .1 ft. glass)			JVE-316 SC-0304	
4				@ 3.5 Olive Grey, medium dense, fine to medium ~~sand~~ SAND with trace silt. Sand grains are multi colored. Damp 3.5-9.7'			JVE-316 SC-0405	
5								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-316 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb 17, 2011 1000
No. of Sections: 3	Core Logged By: JD
Drive Length: 13.6'	Attempt #: 1
Recovery: 10.1'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 75%	Diameter of Core (inches) 4
Notes: lab recovery = 9.7'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as above			JVE-316 SC-~~0607~~ 0506	
6				@6-6.3 pocket of ~~olive~~ light grey, damp, medium stiff, slightly clayey SILT			JVE-316 SC-~~0708~~ 0607	
7				@7ft grades to medium SAND			JVE-316 ~~0800~~ SC-0708	
8				@8ft same as 7 with trace coarse SAND			JVE-316 SC-0809	
9				@9.4-9.7 along the inner wall of the liner ~~of the core tube~~ core is a white to light grey hard material, dry, which easily breaks to medium grains			JVE-316 SC-0909.7	
				@9.7 Core Ends (Nose not retained)				
10								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-309 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb 17, 2011 ~~1330~~ 1120
No. of Sections: 3 + Nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 92%	Diameter of Core (inches) 4"
Notes: lab recovery = 11.5'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				olive grey to dark grey, moist, soft, SILT 0-1.2'			JVE-309 SC-0001	
1				@1.0' @1ft ~~moist, soft, same color as above,~~ SILT with trace sand			JVE-309 SC-0102	
				@1.2ft-1.6' medium coarsed grained sandy SILT, moist, soft, dark/olive grey (dashed line) @1.3 ~~trace of gravel~~ trace gravel				
		1.6-1.9		@1.6ft moist, loose, silty medium sand with trace ~~few~~ gravel				
2		1.9 10.5		@1.9 Damp, moist, medium dense, fine to medium ~~fine~~ SAND with trace silt. Sand grains are multi colored - trace coarse sand from 1.9 to 3ft.			JVE-309 SC-0203	
3							JVE-309 SC-0304	
4							JVE-309 SC-0405	
5								

EMJ014260

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-309 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb 17, 2011
No. of Sections: 3 + nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 92%	Diameter of Core (inches) 4
Notes: lab recovery = 11.5'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as above			JVE-309 SC 0506	
6							JVE-309 SC-0607	
7							JVE-309 SC-0708	
				@7.6 grades to very fine silty SAND				
				@7.9-8.0 Interbed of silt.				
8							JVE-309 0809	
				@8.3-8.4 layered wood waste. wood is small decayed pieces				
				@8.4 ~~same as 1.9~~ back to f-m. SAND				
9							JVE-309 SC-0910	
10								

EMJ014261

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE- 309 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: 1102 Feb 17, 2011
No. of Sections: 3 + nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 92%	Diameter of Core (inches) 4
Notes: lab recovery = 11.5'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as above			JVE 309 SC-1011	
				@10.5-10.7 dark grey, moist, stiff, very fine sandy silt.				
				@10.7 ~~returns to silt~~ Same as 1.9' - 11.0'				
11				@11-11.5 Damp, stiff, dark grey, clayey silt with trace sand			JVE-309 SC-1111.5	
				Core Ends @11.5				
12				→ Adjusted due to void spaces @ 3.5-3.7 @ 7.5-7.9				
13								
14								

EMJ014262

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-311 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb 17, 2011 1330
No. of Sections: 3	Core Logged By: JD
Drive Length: 13.6'	Attempt #: 1
Recovery: 10.'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: ~~76% 75%~~ 76%	Diameter of Core (inches) 4"
Notes: lab recovery = 9.4'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				wet, very soft SILT, Brown (0-0.5)			JVE-311-SC 0001	
				@.5 2.0' moist, soft, dark grey SILT				
1							JVE-311 SC-0102	
2				@2ft 3ft dark grey moist, medium stiff, SILT with trace fine sand			JVE-311 SC-0203	
3				@3ft 4.2' dark grey, moist, medium dense silty medium coarse SAND with 15% gravel with 1 cobble			JVE-311 SC-0304	
				@3.6 moisture changes to damp				
4				@4.2 4.9' damp, dark grey, medium dense fine SAND with trace coarse sand			JVE-311 SC-0405	
				@4.4 ~~3ft x 2ft cobble~~ 3ft x .2ft cobble				
				@4.5 layer of fiber-like material with a spot of rainbow sheen on it.				
5				@4.9 dark grey, damp, dense, very fine SAND				

4.9-9.4 ft

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-311 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb. 17th, 2011
No. of Sections: 3	Core Logged By: JD
Drive Length: 13.6'	Attempt #: 1
Recovery: 10'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 76%	Diameter of Core (inches) 4
Notes: Tub recovery = 9.4'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

	Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
					Same as above			JVE-311 SC-0506	
					@5ft small silt pocket 2cm x 2cm ~~0.5ft~~				
6					@6 two ~~inte~~ layers of silt, 5mm each			JVE-311 SC-0607	
7								JVE-311 SC-0708	
8					@7.7 sand grains grade to medium sand grains multi-colored			JVE-311 SC-089.4	
9					@9.1 ft - 2cm band of clayey silt				
					core ends @9.4 ft				

Nose not retained (empty)

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-320 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb, 17, 2011 1445
No. of Sections: 3 + Nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 13.3'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 95%	Diameter of Core (inches) 4"
Notes: lab recovery = 12.9'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
		@0-0.1		Wet, Brown, very soft, SILT			JVE-320 SC-0001	
		@0.1-1.0'		@0.1 moist, soft, dark grey SILT with trace medium sand				
1				@1-5 ft slight HC-like odor				
				@1-1.5 dark grey, moist, soft, ~~SILT~~ slightly medium ~~sand~~ coarse grained sandy SILT			JVE-320 SC-0102	
				@1.5-3.9 ft dark grey, moist, medium stiff SILT with trace sand				
2							JVE-320 SC-0203	
				@2.4 1cm layer of material from 1-1.5				
				@2.6 1cm layer of material 1-1.5				
				@2.8 1cm layer of material from 1-1.5				
3				(in 3.4' sample sheen noted - metallic)			JVE-320 SC-0304	
				@3.4-3.9 1cm interbeds of material from 1-1.5			JVE-1320 SC-0304	
4				@3.9-10.3 dark grey, damp, medium stiff ~~clayey~~ ~~silt~~ SILT with trace sand and trace clay with small (2mm) interbeds of ~~sand~~ SANDY SILT			JVE-320 SC-0405	
5								

EMJ014265

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-320 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb 17, 2011
No. of Sections: 3 + nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 13.3'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 95%	Diameter of Core (inches) 4
Notes: lab recovery = 12.9'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as above			JVE-320 SC-0506	
6							JVE-320 SC-0607	
7							JVE-320 SC-0708	
8				@ 8-8.2 void			JVE-320 SC-0809	
9							JVE-320 SC-0910	
10								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-320 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb 17, 2011
No. of Sections: 3 + nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 13.3'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 95%	Diameter of Core (inches) 4
Notes: lab recovery = 12.9'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				same as above			JVE-320 SC-1011	
				@10.3-10.6 Dark grey, damp, medium dense, medium ~~sand~~ SAND with trace silt				
				@10.6-10.7 same as 3.9				
				same as 10.3'				
11							JVE-320 SC-1112	
				@11.95 a 2cm layer of SILT				
12							JVE-320 SC-1212.9	
				@12.3 12.9' Dark grey, damp, stiff clayey SILT, trace sand				
13				Core ends at 12.9				
14								
15								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization		Station ID:	JVE-314 ~~SC-1102~~
Job No. 080224-01.01		Date/Time:	~~1102~~ Feb 18, 2011 0830
No. of Sections: 2 ~~+ Nose~~ + Nose		Core Logged By:	JD
Drive Length: 9.5'		Attempt #:	1
Recovery: 8.9'		Type of Core	☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 94%		Diameter of Core (inches)	4"
Notes: lab recovery = 7.9'		Core Quality	☐ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
1				@0-.2 Damp, soft, SILT with trace sand Brown			JVE-314-SC-0001	
				@.2-0.6 Damp, soft, ~~sil SILT with trace fine sand~~ slightly medium sandy SILT with trace Gravel, Dark grey				
				@.6-2ft Moist, medium stiff, medium sandy SILT, scattered wood debris throughout the interval Dark grey				
				@1.1 moderate wood fibers up to .2ft in length			JVE-314 SC-0102	
2				@2ft Dark grey, moist, loose, slightly silty medium SAND			JVE-314 SC-0203	
				@2.7 SILT Pocket				
3				@3.1 SILT pocket			JVE-314 SC-0304	
				@3.3 SILT Pocket				
4				@4ft SILT Pocket			JVE-314 SC-0405	
5				@5ft SILT Pocket				

EMJ014268

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-314-SC-1102
Job No. 080224-01.01	Date/Time: 1102 Feb 18, 2011
No. of Sections: 2 + nose	Core Logged By: JD
Drive Length: 9.5'	Attempt #: 1
Recovery: 8.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 94%	Diameter of Core (inches) 4"
Notes: lab recovery = 7.9'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				SAME as above			JVE-314-SC-0506	
				@5.4 SILT Pocket				
				@5.7 Trace coarse SAND				
6				Same as above with			JVE-314 SC-0607	
				@6.7 SILT Pocket				
7				@7.2 SILT pocket			JVE-314 SC-0779	
8				End of Core @7.9 ft				
				Nose empty				
9								
10								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-216 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb 18, 2011 0930
No. of Sections: 3 + Nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.4'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 89%	Diameter of Core (inches) 4"
Notes: Lab recovery = 12.1'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
1				@0-1.8 Dark grey, moist, soft, SILT			JVE-216 SC-0001	
							JVE-216 SC-0102	
2				@1.8 Dark grey, moist, medium stiff, SILT with trace medium sand			JVE-216 SC-0203	
3							JVE-216 SC-0304	
4				@3.5-4.2 Dark grey, moist, medium dense, ~~sfu~~ silty fine ~~grain~~ to medium grained SAND, sand grains are multi colored @3.9 Interbed of SILT			JVE-216 SC-0405	
5				@4.2 same as 1.8				

EMJ014270

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-216 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~
No. of Sections: 3+ nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.4'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 89%	Diameter of Core (inches) 4
Notes: lab recovery = 12.1'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				SAME as above			JVE-216 SC-0306	
				@5.6-6ft same as 3.5'				
6				@6-6.5ft same as 1.8 except damp and stiff			JVE-216 SC-0607	
				@6.5-11.6 Dark grey, moist loose, medium ~~Coa~~ to coarse ~~sand~~ SAND with trace silt, Sand grains are multi-colored,				
7							JVE-216 SC-0708	
				@				
8							JVE-216 SC-0809	
9							JVE-216 SC-0910	
10								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-216 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: 1102
No. of Sections: 3+ nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.4'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 89%	Diameter of Core (inches) 4
Notes: lab recovery = 12.1'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as above			JVE-216 SC-1011	
				@10.6 large gravel				
11				@ 11.1 ~~cobbel~~ cobble			JVE-216 SC11-12.1	
12				@11.6 - 12.1 Damp, light grey, medium dense, slightly silty V.F SAND, occasional wood debris, pieces up to .15 ft in length & interbeds of silt				
				End of Core 12.1				
13								
14								
15								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-~~322 SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb 18 1045
No. of Sections: 3 + Nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 92%	Diameter of Core (inches) 4
Notes: lab recovery = 12.4'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
1				@0-2' moist, dark grey, soft SILT			JVE-322 SC-0001	
							JVE-322 SC-0102	
2				@2ft-3ft Damp, medium stiff, SILT, dark grey			JVE-322 SC-0203	
3				@3-8ft Dark grey, damp, medium stiff SILT with trace fine ~~sand~~ sand			JVE-322 SC-0304	
				@3.8 – 3.9 layer of sandy SILT				
4							JVE-322 SC-0405	
5								

EMJ014273

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-322~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ 2/18/11 1045
No. of Sections: 3 + nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 92%	Diameter of Core (inches) 4
Notes: lab recovery = 12.4'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as Above			JVE-322 SC-0506	
6				@6.1-6.2 Layer of Sandy SILT			JVE-322 SC-0607	
7							JVE-322 SC-0708	
8				@8.7 ft Dark grey, Damp, medium dense, slightly silty very fine to fine SAND with moderate decayed wood fragments. @8.3 no more wood fragments @8.4 Large SILT pocket.			JVE-322 SC-0809	
9				@8.7-9.5 Dark grey, Damp, dense, VF to F. SAND with trace silt. Sand grains are multi colored @9.2-9.4 Large SILT pocket @9.5-10.5 Sand grades to medium			JVE-322 SC0910	
10								

EMJ014274

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-322 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ 2/18/11 1045
No. of Sections: 3+ nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 92%	Diameter of Core (inches) 4
Notes: lab recovery = 12.4'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as Above @10.2 SILT pocket			JVE-322 SC-1011	
				@10.5 - 11.8 ~~Sand~~ SAND grains become medium with trace Coarse-SAND				
11				@11-12 Scattered decayed wood			JVE-322 SC-1112.4	
12				@11.8 - 12.4 Same as 8.7				
				Core Ends @12.4				
13								
14								
15								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE- 07 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb 18, 2011 1315
No. of Sections: 3 + N	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.5'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 89 %	Diameter of Core (inches) 4"
Notes: lab recovery = 12.2'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				0-2.8' Dark grey, moist, soft SILT			JVE-07 SC-0001	
				0-1' Slight HC-like odor				
				worm present at top of core				
1							JVE-07 SC-0102	
2				@2 ft becomes medium stiff			JVE-07 SC-0203	
3				@2.8-6.0' Dark grey, ~~moist~~, damp, medium stiff, SILT, with trace sand.			JVE-07 SC-0304	
4				@4-5' Slight HC-like odor			JVE-07 SC-0405	
5								

EMJ014276

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-07 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb. 18, 2011 1315
No. of Sections: 3+ nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.5'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 89%	Diameter of Core (inches) 4
Notes: lab recovery = 12.2'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				SAME as Above			JVE-07 SC-0506	
6				@6-6.7' ~~6.7 layer of~~ interchanging layers of very fine SAND and sandy SILT @6.7' slight HC-like odor			JVE-07 SC-0607	
7		@7.1-11.7		@6.7-7.1' Dark grey, damp, Dense, silty fine SAND @7.1-11.7 Dark grey, damp, medium dense, medium SAND, with trace silt. Sand grains are multi coloured.			JVE-07 SC-0708	
8				@8.6 trace wood debris (decayed)			JVE-07 SC-0809	
9				@9.6-9.7 moderate wood debris @9.9 moderate wood debris			JVE-07 SC-0910 and JVE1007-SC-0910	
10								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-07 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb. 18, 2011 1315
No. of Sections: 3+ max	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.5'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 89%	Diameter of Core (inches) 4
Notes: lab recovery = 12.2'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				same as Above			JVE-07 SC-1011	
				@10.3-10.6 occasional wood debris				
11							JVE-07 SC-11-12.2	
				@11.3 .05 ft layer of woody SILT				
				@11.7-12.2 Dark grey - damp medium dense fine SAND with trace silt and occasional wood debris				
12								
				Core Ends @ 12.2				
13								
14								
15								

EMJ014278

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sed. Char.	Station ID: ~~JVE0~~ JVE-01
Job No. 080224-01.01	Date/Time: Feb 18, 2011 1445
No. of Sections: 3	Core Logged By: JD
Drive Length: 14'	Attempt #: 2
Recovery: 10.8'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 77%	Diameter of Core (inches) 4"
Notes: lab recovery = 9.7'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				0.0 - .4 Brown, wet, very soft, SILT with trace sand and occasional wood fragments			JVE-01 SC0001	
1				@.4 - 1.7 Dark grey, moist, soft slightly sandy SILT with moderate wood debris (twigs) up to .3 ft long			JVE-01 SC-0102	
				0 - 6.5 ft slight HC-like odor @1.2 strong HC-like odor				
2				@1.7 - 3.7 Dark grey, moist, dense, gravelly fine ~~sa~~ SAND with trace silt and cobble			JVE-01 SC-0203	
3							JVE-01 SC-0304	
				@3.7 No gravel or cobble				
4							JVE-01 SC-0405	
5								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sed. Charac.	Station ID: JVE-01
Job No. 080224-01.01	Date/Time: Feb. 18, 2011 1445
No. of Sections: 3	Core Logged By: JD
Drive Length: 14'	Attempt #: 2
Recovery: 10.8'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 77%	Diameter of Core (inches) 4
Notes: lab recovery = 9.7'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as above			JVE-01 SC-0506	
6							JVE-01 SC-0607	
7							JVE-01 SC-0708	
8				8.1 – 9.7 dark grey, damp, m. dense, m-SAND with trace gravel and cobble (Note: void space from 8.1 – 8.6 was adjusted b/c sand sloughed down core tube. loss of material was noted on core collection log)			JVE-01 SC-0809	
9							JVE-01 SC-099.7	
10				CORE ENDS @ 9.7				

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization		Station ID:	JVE-02 ~~SC-1102~~
Job No. 080224-01.01		Date/Time:	~~1102~~ Feb 21, 2011 0820
No. of Sections: 3 + Nose		Core Logged By:	JD
Drive Length: 13.7'		Attempt #:	2
Recovery: 9.9'		Type of Core	☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 72%		Diameter of Core (inches)	4"
Notes: lab recovery = 9.6'		Core Quality	☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				@0-.5 ~~Rust colored~~ Light brown, Damp, medium stiff, ~~tan~~ sandy SILT with trace gravel. rust odor			JVE-02 SC-0001	
				@.5-1.3 Light brown, Dry, medium dense, fine to medium SAND, trace silt. slight rust odor			JVE-02 SC-0102	
				@1.3-3.4 Color changes to dark grey, no odor. Sand grains are multi colored.			JVE-02 SC-0203	
							X No Line	
							JVE-1002 SC-0203	
							JVE-02 SC-0304	
				@3.4-7 Sand grades to medium			JVE-02 SC-0405	

1 2 3 4 5

EMJ014281

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-02-~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1402~~ Feb. 21, 2011 0820
No. of Sections: 3 + nose	Core Logged By: JD
Drive Length: 13.7'	Attempt #: 2
Recovery: 9.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 72%	Diameter of Core (inches) 4
Notes: lab recovery = 9.6'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as Above			JVE-02 SC-0506	
6							JVE-02 SC-0607	
7				7-9.6 Same as 3.4 with trace coarse SAND			JVE-02 SC-0708	
8							JVE-02 SC-0809	
9							JVE-02 SC-099.6	
				END OF CORE @ 9.6'				
10								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization		Station ID:	JVE-03 ~~SC-1102~~
Job No. 080224-01.01		Date/Time:	~~1102~~ Feb 21, 2011 0940
No. of Sections: 3+ Nose		Core Logged By:	JD
Drive Length: 14'		Attempt #:	1
Recovery: 12.8'		Type of Core	☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 91%		Diameter of Core (inches)	4"
Notes: lab recovery = 12.2'		Core Quality	☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				@0-2.9 Dark grey, moist, soft SILT slight ~~H2S~~ H_2S odor			JVE-03 SC-0001	
1				X No Line			JVE-03 SC-0102	
2							JVE-03 SC-0203	
3				@2.9-7.8 Dark grey, moist, medium stiff, SILT with trace sand slight H_2S odor			JVE-03 SC-0304	
4							JVE-03 SC-0405	
5								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-03 ~~SG-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb. 21, 2011 0940
No. of Sections: 3+ nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.8'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 91%	Diameter of Core (inches) 4
Notes: lab recovery = 12.2'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				SAME as Above			JVE-03 SC-0506	
6							JVE-03 SC-0607	
7							JVE-03 SC-0708	
							JVE-1003 SC-0708	
8				@7.8-9.5 Dark grey, Damp, medium dense, slightly silty fine to medium SAND with silt pockets slight H_2S odor 8-8.4 VOID			JVE-03 SC-0809	
9				@9.3-9.5 occasional wood debris			JVE-03 SC-0910	
10				@9.5-11.7 Dark grey, moist, medium dense, medium SAND with trace silt, with interbeds of silt. Slight H_2S odor Sand grains are multi colored.				

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-03 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb. 21, 2011 0940
No. of Sections: 3 + nose	Core Logged By: JD
Drive Length: 14'	Attempt #: 1
Recovery: 12.8'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 91%	Diameter of Core (inches) 4
Notes: lab recovery = 12.2'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				same as above			JVE-03 SC-1011	
11							JVE-03 SC-1112.2	
12				@11.7 same as 9.5 with trace coarse sand.			X No line	
				End of core @ 12.2				
13								
14								
15								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization		Station ID:	JVE-04 ~~SC-1102~~
Job No. 080224-01.01		Date/Time:	~~1102~~ Feb 21, 2011 1100
No. of Sections: 3 + Nose		Core Logged By:	JD
Drive Length: 11.8'		Attempt #:	1
Recovery: 9.9'		Type of Core	☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 84%		Diameter of Core (inches)	4"
Notes: lab recovery = 9.2		Core Quality	☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
1				@0-0.2 Brown, wet, very soft, SILT slight H_2S odor @0.2-1.2 Dark grey, moist, soft, slightly sandy SILT with slight H_2S odor			JVE-04 SC-0001	
2				@1.2-5.4 Dark grey, moist, medium dense, fine to medium SAND with trace silt.			JVE-04 SC-0102 JVE-04 SC-0203	
3				@3 ft moisture changes to Damp			JVE-04 SC-0304	
4				@4-5 ft Trace gravel present ~~@4.0 piece of gravel~~			JVE-04 SC-0405	
5								

Sediment Core Processing Log

ANCHOR QEA

Job: Jorgensen Sediment Characterization	Station ID: JVE-04 ~~SC-1102~~
Job No. 080224-01.01	Date/Time: ~~1102~~ Feb. 21, 2011 1100
No. of Sections: 3 + nose	Core Logged By: JD
Drive Length: 11.8'	Attempt #: 1
Recovery: 9.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 84%	Diameter of Core (inches) 4
Notes: lab recovery = 9.2'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				same as above			JVE-04 SC-0506	
				@5.4 SAND grades to medium with trace coarse sand, sand grains are multi colored				
6							JVE-04 SC-0607	
							JVE-1004 SC-0607	
7							JVE-04 SC-0708	
8								
							JVE-04 089.2	
9								
				core ends @ 9.2'				
10								

Sediment Core Processing Log

ANCHOR QEA

Job: ~~DSI Sediment RI~~ Jorgensen Forge VE	Station ID: JVE-206SC
Job No. ~~080444-01~~	Date/Time: 3/16/11
No. of Sections: 3 and shoe	Core Logged By: Delaney Peterson, Julia Labidae
Drive Length: 14'	Attempt #: 1 of
Recovery: 13.9'	Type of Core: ☐ Mudmole ☒ Vibracore ☐ Diver Core
% Recovery: 99%	Diameter of Core (inches) 4"
Notes: lab recovery = 13.6'	Core Quality: ☒ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
0.5	-	0	100	Very soft, ~~very~~ wet, dark grey SILT ~~Grades to 1~~			JVE-206SC-0-1	
1.0								
1.5							JVE-206SC-1-2	
2.0				~~@2.2~~				
2.5				@2.5- shell fragment.			JVE-206SC-2-3	
3.0	-	5	95	@3- Grades to medium stiff, dark grey SILT, trace vf sand.			JVE-206SC-3-4	
3.5								
4.0							JVE-206SC-4-5	
4.5								

EMJ014288

Sediment Core Processing Log

ANCHOR QEA

Job: ~~DSI Sediment RI~~ Jorgensen	Station ID: JVE-206SC cont.
Job No. 080~~111-01~~ Forge VE	Date/Time: 3/16/11
No. of Sections: 3 + shoe	Core Logged By: DP, JL
Drive Length: 14'	Attempt #: 1
Recovery: 13.9'	Type of Core: ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 99%	Diameter of Core (inches) 4
Notes: lab recovery = 13.6'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				Same as above @ 3'			JVE-206SC-	
5.5								
6.0							5-6	
							JVE 206SC-	
6.5		0	100	@6.4 - Grades to medium stiff, moist, dark grey SILT, trace clay.				
							6-7	
7.0				@7. Grades to medium stiff, moist, dark grey SILT, trace vf sand. Trace wood fibers.			JVE-206SC-	
	-	5	95					
7.5							7-8	
8.0							JVE-206SC-	
8.5								
9.0							8-9	
							JVE-206SC-	
9.5		30	70	@9.4 - Grades to stiff, dark grey, moist, f-sandy SILT.				
		5	95	@9.8 - grades to stiff, moist, dark grey, SILT, trace vf-sand, trace clay.			9-10	

Sediment Core Processing Log

ANCHOR QEA

Job: ~~DGI Sediment RI~~ Jorgensen	Station ID: JVE-206SC cont.
Job No. ~~080111-01~~ Forge VE	Date/Time: 3/16/11
No. of Sections: 3	Core Logged By: DP, JD, JL
Drive Length: 14'	Attempt #: 1
Recovery: 13.9'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 99%	Diameter of Core (inches) 4
Notes: Lab recovery = 13.6'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
				@ 10.1 - 1" bed of dense, moist, grey f-SAND.			JVE-206SC	
10.5	-	90	10					
		(95)	(5)					
11.0	-	(0)	(100)	@ 11 - moderate laminated beds of dense, moist, grey f-SAND			10-11	
							JVE-206SC	
11.5								
							11-12	
12				@ 12 - one stratified bed of dense, grey, f-M SAND. Grains are multicolored				
							JVE-206SC	
12.5								
							12-13	
13							JVE-206SC	
13.5							13-13.6	
	-	100	0	@ 13.5 - Dense, moist, grey, f-M SAND - Grains are multicolored.				
				@ 13.6 - End of core				
				Shoe contains same material as above @ 13.5				

Sediment Core Processing Log

ANCHOR QEA

Job: [redacted] Jorgensen		Station ID: JVE-2085C	
Job No. [redacted] Forge VE		Date/Time: 3/16/11	
No. of Sections: 3 and Shoe		Core Logged By: ~~Delaney Petersen~~, Dana Giffen + Julia Labadie	
Drive Length: 14'		Attempt #: 1 of 1	
Recovery: 13'		Type of Core ☐ Mudmole ☒ Vibracore ☐ Diver Core	
% Recovery: 93%		Diameter of Core (inches) 4"	
Notes: No recovery = 12.7'		Core Quality ☒ Good ☐ Fair ☐ Poor ☐ Disturbed	

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
		5	95	@0-0.7: Very soft, wet, dark gray, SILT, trace vf sand.			JVE-2085C	
0.5								
	-	-	-	@0.7 Grades to soft.			0-1	
1								
							JVE-2085E	
1.5								
							1-2	
2	-	-	-	@2 Grades to medium stiff, moist, dark gray slightly vf-f sandy SILT.				
		10	90				JVE-2085C	
2.5								
							2-3	
3								
							JVE-2085E	
3.5								
							3-4	
4		(5)	(95)	@4.5: Grades to medium stiff, moist, dark gray SILT, trace vf sand.				
							JVE-2085C	
4.5		-	-	- -				
							4-5	

EMJ014291

Sediment Core Processing Log

ANCHOR QEA

Job: ~~DSI Sediment RI~~ Jorgensen	Station ID: JVE-208SC cont.
Job No. ~~080111-01~~ Forge VE	Date/Time: 3/16/11
No. of Sections: 3 + shoe	Core Logged By: DG, JL
Drive Length: 14'	Attempt #: 1
Recovery: 13'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 93%	Diameter of Core (inches) 4
Notes: lab recovery = 12.7'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
5				Same as above @4.5'			JVE-208SC	
5.5								
		0	100	@5.8'-5.9': Medium stiff, moist, olive gray SILT.			5-6	
6				@5.9': Same as above at 4.5'			JVE-208SC	
6.5								
				@6.8' slight H_2S like odor.			6-7	
7				@7.2' Grades to stiff. 3" long x 1" wide stick.			JVE-208SC	
7.5								
							7-8	
8							JVE-208SC	
8.5								
							8-9	
9							JVE-208SC	
9.5								
							9-10	

EMJ014292

Sediment Core Processing Log

ANCHOR QEA

Job: ~~DSI Sediment RI~~ Jorgensen VE	Station ID: JVE-208sc cont...
Job No. ~~080111-01~~ 080224-01.01	Date/Time: 3/16/11
No. of Sections: 3 + shoe	Core Logged By: DG, JL
Drive Length: 14'	Attempt #: 1
Recovery: 13'	Type of Core ☐ Mudmole ☑ Vibracore ☐ Diver Core
% Recovery: 93%	Diameter of Core (inches) 4
Notes: lab recovery = 12.7'	Core Quality ☑ Good ☐ Fair ☐ Poor ☐ Disturbed

Recovered Length (ft)	Size % G	Size % S	Size % F	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (ft)	PID	Sample	Summary Sketch
10							JVE-208sc 10-11	
10.5		10	90	@10.3': Grades to stiff damp, dark gray slightly vf-f sandy SILT.				
11							JVE-208sc void 11-12	
11.5				11.3-11.8: VOID				
12		100	0	@11.8': Dense, moist, dark gray vf-f SAND. Grains are multicolored.			JVE-208sc 12-12.5	
12.5				End of core (@12.7' w/shoe (0.2')			~~12-13~~	
13								

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-0203-110216
SAMPLE

Lab Sample ID: SJ34C
LIMS ID: 11-3385
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 09:03
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 46.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**22**
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.4%
Tetrachlorometaxylene	91.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-0304-110216
SAMPLE

Lab Sample ID: SJ34D
LIMS ID: 11-3386
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 09:21
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 41.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	32	< 32 Y
11097-69-1	**Aroclor 1254**	**20**	**48**
11096-82-5	**Aroclor 1260**	**20**	**53**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.4%
Tetrachlorometaxylene	93.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-0405-110216
SAMPLE

Lab Sample ID: SJ34E
LIMS ID: 11-3387
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 09:40
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 42.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	97.4%
Tetrachlorometaxylene	96.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-0506-110216
SAMPLE

Lab Sample ID: SJ34F
LIMS ID: 11-3388
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 09:59
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 40.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	103%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-0607-110216
SAMPLE

Lab Sample ID: SJ34G
LIMS ID: 11-3389
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 10:18
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 37.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	35	< 35 Y
11097-69-1	**Aroclor 1254**	**19**	**66**
11096-82-5	**Aroclor 1260**	**19**	**21**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	97.8%
Tetrachlorometaxylene	88.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-0708-110216
SAMPLE

Lab Sample ID: SJ34H
LIMS ID: 11-3390
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 10:37
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 34.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.4%
Tetrachlorometaxylene	95.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-0809-110216
SAMPLE

Lab Sample ID: SJ34I
LIMS ID: 11-3391
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 10:55
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 37.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	96.4%
Tetrachlorometaxylene	96.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-0910-110216
SAMPLE

Lab Sample ID: SJ34J
LIMS ID: 11-3392
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 11:52
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 35.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**20**
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	99.5%
Tetrachlorometaxylene	92.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-1011-110216
SAMPLE

Lab Sample ID: SJ34K
LIMS ID: 11-3393
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 12:11
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 29.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.6%
Tetrachlorometaxylene	87.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-1112-110216
SAMPLE

Lab Sample ID: SJ34L
LIMS ID: 11-3394
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 12:30
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 24.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.2%
Tetrachlorometaxylene	81.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-1212.8-110216
SAMPLE

Lab Sample ID: SJ34M
LIMS ID: 11-3395
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 12:48
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 23.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	83.9%
Tetrachlorometaxylene	76.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-1215SC-0607-110216
SAMPLE

Lab Sample ID: SJ34N
LIMS ID: 11-3396
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ34-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 13:45
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 37.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	22	< 22 Y
11097-69-1	**Aroclor 1254**	**19**	**40**
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.6%
Tetrachlorometaxylene	89.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-0203-110216
SAMPLE

Lab Sample ID: SJ35C
LIMS ID: 11-3399
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 13:20
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 43.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	96.8%
Tetrachlorometaxylene	84.1%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-0304-110216
SAMPLE

Lab Sample ID: SJ35D
LIMS ID: 11-3400
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 13:44
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 47.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	89.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-0405-110216
SAMPLE

Lab Sample ID: SJ35E
LIMS ID: 11-3401
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 14:08
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 43.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**29**
11096-82-5	**Aroclor 1260**	**20**	**21**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	97.0%
Tetrachlorometaxylene	85.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-0506-110216
SAMPLE

Lab Sample ID: SJ35F
LIMS ID: 11-3402
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 14:32
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 42.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**30**
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	97.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-0607-110216
SAMPLE

Lab Sample ID: SJ35G
LIMS ID: 11-3403
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 14:55
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 34.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**24**
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	90.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-0708-110216
SAMPLE

Lab Sample ID: SJ35H
LIMS ID: 11-3404
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 15:19
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 31.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**38**
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	108%
Tetrachlorometaxylene	94.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-0809-110216
SAMPLE

Lab Sample ID: SJ35I
LIMS ID: 11-3405
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 15:43
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 23.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	88.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-0910-110216
SAMPLE

Lab Sample ID: SJ35J
LIMS ID: 11-3406
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 16:55
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 18.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	86.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-1011-110216
SAMPLE

Lab Sample ID: SJ35K
LIMS ID: 11-3407
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 18:06
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 20.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	89.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-1112-110216
SAMPLE

Lab Sample ID: SJ35L
LIMS ID: 11-3408
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 18:30
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 34.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.1%
Tetrachlorometaxylene	83.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-1212.7-110216
SAMPLE

Lab Sample ID: SJ35M
LIMS ID: 11-3409
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ35-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 18:54
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 36.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	90.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-0203-110216
SAMPLE

Lab Sample ID: SJ36C
LIMS ID: 11-3412
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 20:53
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 45.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	31	< 31 Y
11097-69-1	**Aroclor 1254**	**20**	**45**
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.0%
Tetrachlorometaxylene	80.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-0304-110216
SAMPLE

Lab Sample ID: SJ36D
LIMS ID: 11-3413
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 21:17
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 47.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	35	< 35 Y
11097-69-1	**Aroclor 1254**	**20**	**67**
11096-82-5	**Aroclor 1260**	**20**	**55**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	99.8%
Tetrachlorometaxylene	86.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-0405-110216
SAMPLE

Lab Sample ID: SJ36E
LIMS ID: 11-3414
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 21:41
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 47.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**35**
11096-82-5	**Aroclor 1260**	**20**	**52**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.4%
Tetrachlorometaxylene	83.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-0506-110216
SAMPLE

Lab Sample ID: SJ36F
LIMS ID: 11-3415
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 22:05
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 48.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.5%
Tetrachlorometaxylene	77.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-0607-110216
SAMPLE

Lab Sample ID: SJ36G
LIMS ID: 11-3416
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 22:29
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**150**
11097-69-1	**Aroclor 1254**	**20**	**170**
11096-82-5	**Aroclor 1260**	**20**	**50**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.6%
Tetrachlorometaxylene	85.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-0708-110216
SAMPLE

Lab Sample ID: SJ36H
LIMS ID: 11-3417
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 22:53
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 29.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	31	< 31 Y
11097-69-1	**Aroclor 1254**	**19**	**46**
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.5%
Tetrachlorometaxylene	80.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-0809-110216
SAMPLE

Lab Sample ID: SJ36I
LIMS ID: 11-3418
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 23:16
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 38.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**25**
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	88.1%
Tetrachlorometaxylene	78.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-0910-110216
SAMPLE

Lab Sample ID: SJ36J
LIMS ID: 11-3419
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 23:40
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 37.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	**Aroclor 1260**	**20**	**32**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.4%
Tetrachlorometaxylene	73.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-1011-110216
SAMPLE

Lab Sample ID: SJ36K
LIMS ID: 11-3420
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/19/11 00:52
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 28.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.0%
Tetrachlorometaxylene	80.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-1112-110216
SAMPLE

Lab Sample ID: SJ36L
LIMS ID: 11-3421
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/19/11 01:15
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	**Aroclor 1254**	**19**	**26**
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.6%
Tetrachlorometaxylene	78.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-1212.6-110216
SAMPLE

Lab Sample ID: SJ36M
LIMS ID: 11-3422
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ36-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 02/17/11
Date Analyzed: 02/19/11 01:39
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 18.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	88.2%
Tetrachlorometaxylene	73.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-205SC-0203-110217
SAMPLE

Lab Sample ID: SJ57C
LIMS ID: 11-3504
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ57-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 15:53
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 47.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**51**
11097-69-1	**Aroclor 1254**	**20**	**100**
11096-82-5	**Aroclor 1260**	**20**	**94**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.5%
Tetrachlorometaxylene	78.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-205SC-0304-110217
SAMPLE

Lab Sample ID: SJ57D
LIMS ID: 11-3505
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ57-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 16:17
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 46.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**72**
11097-69-1	**Aroclor 1254**	**20**	**130**
11096-82-5	**Aroclor 1260**	**20**	**64**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	80.8%
Tetrachlorometaxylene	79.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-205SC-0405-110217
SAMPLE

Lab Sample ID: SJ57E
LIMS ID: 11-3506
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ57-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 16:41
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 47.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**180**
11097-69-1	**Aroclor 1254**	**20**	**300**
11096-82-5	**Aroclor 1260**	**20**	**110**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	82.2%
Tetrachlorometaxylene	69.1%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-205SC-0506-110217
SAMPLE

Lab Sample ID: SJ57F
LIMS ID: 11-3507
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ57-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 17:05
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 49.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**110**
11097-69-1	**Aroclor 1254**	**20**	**160**
11096-82-5	**Aroclor 1260**	**20**	**54**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	70.6%
Tetrachlorometaxylene	63.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-205SC-0607-110217
SAMPLE

Lab Sample ID: SJ57G
LIMS ID: 11-3508
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ57-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/21/11 09:56
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 25.0
Silica Gel: No

Percent Moisture: 47.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	97	< 97 U
53469-21-9	**Aroclor 1242**	**97**	**1,300**
12672-29-6	Aroclor 1248	97	< 97 U
11097-69-1	**Aroclor 1254**	**97**	**1,100**
11096-82-5	**Aroclor 1260**	**97**	**360**
11104-28-2	Aroclor 1221	97	< 97 U
11141-16-5	Aroclor 1232	97	< 97 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	99.4%
Tetrachlorometaxylene	91.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-205SC-0708-110217
SAMPLE

Lab Sample ID: SJ57H
LIMS ID: 11-3509
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ57-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 17:53
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 39.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	**Aroclor 1242**	**19**	**880**
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	**Aroclor 1254**	**19**	**740**
11096-82-5	**Aroclor 1260**	**19**	**160**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.0%
Tetrachlorometaxylene	66.1%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-205SC-0809-110217
SAMPLE

Lab Sample ID: SJ57I
LIMS ID: 11-3510
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ57-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 19:04
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 38.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	**Aroclor 1242**	**20**	**580**
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**800**
11096-82-5	**Aroclor 1260**	**20**	**150**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.4%
Tetrachlorometaxylene	67.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-205SC-0910-110217
SAMPLE

Lab Sample ID: SJ57J
LIMS ID: 11-3511
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ57-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 19:28
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 38.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**27**
11097-69-1	**Aroclor 1254**	**20**	**36**
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	79.5%
Tetrachlorometaxylene	76.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-205SC-1011-110217
SAMPLE

Lab Sample ID: SJ57K
LIMS ID: 11-3512
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ57-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 19:52
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 21.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	72.2%
Tetrachlorometaxylene	67.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-205SC-1112.1-110217
SAMPLE

Lab Sample ID: SJ57L
LIMS ID: 11-3513
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ57-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 20:16
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 30.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	29	< 29 Y
11096-82-5	**Aroclor 1260**	**19**	**93**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.4%
Tetrachlorometaxylene	67.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-311SC-0506-110217
SAMPLE

Lab Sample ID: SJ58F
LIMS ID: 11-3519
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ58-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 20:40
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 24.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	30	< 30 Y
11097-69-1	**Aroclor 1254**	**20**	**98**
11096-82-5	**Aroclor 1260**	**20**	**21**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	79.5%
Tetrachlorometaxylene	77.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-311SC-0607-110217
SAMPLE

Lab Sample ID: SJ58G
LIMS ID: 11-3520
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ58-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 21:03
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 22.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	68.8%
Tetrachlorometaxylene	63.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-311SC-0708-110217
SAMPLE

Lab Sample ID: SJ58H
LIMS ID: 11-3521
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ58-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 21:27
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 19.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.0%
Tetrachlorometaxylene	79.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-311SC-089.4-110217
SAMPLE

Lab Sample ID: SJ58I
LIMS ID: 11-3522
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ58-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 21:51
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 18.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.6%
Tetrachlorometaxylene	74.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-0506-110217
SAMPLE

Lab Sample ID: SJ61A
LIMS ID: 11-3548
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ61-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 19:33
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 43.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	**Aroclor 1260**	**19**	**34**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.1%
Tetrachlorometaxylene	66.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-0607-110217
SAMPLE

Lab Sample ID: SJ61B
LIMS ID: 11-3549
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ61-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 19:52
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 44.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	39	< 39 Y
11096-82-5	**Aroclor 1260**	**20**	**150**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.4%
Tetrachlorometaxylene	72.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-0708-110217
SAMPLE

Lab Sample ID: SJ61C
LIMS ID: 11-3550
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ61-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 20:11
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 44.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	**Aroclor 1260**	**20**	**67**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.8%
Tetrachlorometaxylene	70.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-0809-110217
SAMPLE

Lab Sample ID: SJ61D
LIMS ID: 11-3551
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ61-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 20:30
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 21.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	70.9%
Tetrachlorometaxylene	68.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-0910-110217
SAMPLE

Lab Sample ID: SJ61E
LIMS ID: 11-3552
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ61-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 20:48
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 33.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	80.4%
Tetrachlorometaxylene	81.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-1011-110217
SAMPLE

Lab Sample ID: SJ61F
LIMS ID: 11-3553
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ61-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 21:45
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 26.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	77.0%
Tetrachlorometaxylene	72.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-1112-110217
SAMPLE

Lab Sample ID: SJ61G
LIMS ID: 11-3554
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ61-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 22:04
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 18.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.5%
Tetrachlorometaxylene	80.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-1212.9-110217
SAMPLE

Lab Sample ID: SJ61H
LIMS ID: 11-3555
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ61-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 23:00
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 33.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	**Aroclor 1260**	**20**	**64**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.0%
Tetrachlorometaxylene	69.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-316SC-0506-110217
SAMPLE

Lab Sample ID: SJ62F
LIMS ID: 11-3529
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ62-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 23:19
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 20.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	65.9%
Tetrachlorometaxylene	64.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-316SC-0607-110217
SAMPLE

Lab Sample ID: SJ62G
LIMS ID: 11-3530
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ62-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 23:37
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 19.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	77.6%
Tetrachlorometaxylene	99.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-316SC-0708-110217
SAMPLE

Lab Sample ID: SJ62H
LIMS ID: 11-3531
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ62-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 23:56
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 16.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.2%
Tetrachlorometaxylene	73.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-316SC-0809-110217
SAMPLE

Lab Sample ID: SJ62I
LIMS ID: 11-3532
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ62-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/20/11 00:15
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 15.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.8%
Tetrachlorometaxylene	76.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-316SC-099.7-110217
SAMPLE

Lab Sample ID: SJ62J
LIMS ID: 11-3533
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ62-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/20/11 00:34
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 17.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	79.5%
Tetrachlorometaxylene	81.8%

FORM I

SAMPLE RESULTS-CONVENTIONALS
SJ61-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-320SC-0506-110217
ARI ID: 11-3548 SJ61A

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	56.80
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	2.58

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ61-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-320SC-0607-110217
ARI ID: 11-3549 SJ61B

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	55.90
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	2.23

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ61-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-320SC-0708-110217
ARI ID: 11-3550 SJ61C

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	56.10
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	2.29

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ61-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-320SC-0809-110217
ARI ID: 11-3551 SJ61D

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	65.70
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	1.13

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ61-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-320SC-0910-110217
ARI ID: 11-3552 SJ61E

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	67.00
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	1.10

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ61-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-320SC-1011-110217
ARI ID: 11-3553 SJ61F

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	72.40
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.949

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ61-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-320SC-1112-110217
ARI ID: 11-3554 SJ61G

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	83.70
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.317

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ61-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-320SC-1212.9-110217
ARI ID: 11-3555 SJ61H

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	67.80
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	2.69

RL Analytical reporting limit
U Undetected at reported detection limit

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-0506-110217
SAMPLE

Lab Sample ID: SJ63F
LIMS ID: 11-3539
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ63-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 14:51
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 18.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.4%
Tetrachlorometaxylene	76.1%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-0607-110217
SAMPLE

Lab Sample ID: SJ63G
LIMS ID: 11-3540
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ63-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 15:48
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 20.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.1%
Tetrachlorometaxylene	84.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-0708-110217
SAMPLE

Lab Sample ID: SJ63H
LIMS ID: 11-3541
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ63-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 16:06
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 24.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.2%
Tetrachlorometaxylene	109%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-0809-110217
SAMPLE

Lab Sample ID: SJ63I
LIMS ID: 11-3542
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ63-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 16:25
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 26.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.9%
Tetrachlorometaxylene	80.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-0910-110217
SAMPLE

Lab Sample ID: SJ63J
LIMS ID: 11-3543
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ63-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 16:44
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 20.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	88.6%
Tetrachlorometaxylene	87.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-1011-110217
SAMPLE

Lab Sample ID: SJ63K
LIMS ID: 11-3544
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ63-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 17:03
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 23.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	82.6%
Tetrachlorometaxylene	78.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-1111.5-110217
SAMPLE

Lab Sample ID: SJ63L
LIMS ID: 11-3545
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ63-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 17:59
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 41.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.0%
Tetrachlorometaxylene	83.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-1205SC-0203-110217
SAMPLE

Lab Sample ID: SJ63M
LIMS ID: 11-3546
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ63-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 18:18
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 47.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.9%
Tetrachlorometaxylene	85.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-1309SC-0910-110217
SAMPLE

Lab Sample ID: SJ63N
LIMS ID: 11-3547
Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ63-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/18/11
Date Analyzed: 02/19/11 18:37
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 21.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	83.8%
Tetrachlorometaxylene	82.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-322SC-0809-110218
SAMPLE

Lab Sample ID: SJ81A
LIMS ID: 11-3624
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ81-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/19/11
Date Analyzed: 02/21/11 21:42
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 27.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	**Aroclor 1254**	**19**	**21**
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.2%
Tetrachlorometaxylene	70.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-322SC-0910-110218
SAMPLE

Lab Sample ID: SJ81B
LIMS ID: 11-3625
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ81-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/19/11
Date Analyzed: 02/21/11 22:01
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 18.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	68.8%
Tetrachlorometaxylene	61.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-322SC-1011-110218
SAMPLE

Lab Sample ID: SJ81C
LIMS ID: 11-3626
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ81-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/19/11
Date Analyzed: 02/21/11 22:19
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 18.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.9%
Tetrachlorometaxylene	69.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-322SC-1112.4-110218
SAMPLE

Lab Sample ID: SJ81D
LIMS ID: 11-3627
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ81-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/19/11
Date Analyzed: 02/21/11 22:38
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 21.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	92.6%
Tetrachlorometaxylene	77.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-216SC-1011-110218
SAMPLE

Lab Sample ID: SJ82A
LIMS ID: 11-3637
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ82-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/19/11
Date Analyzed: 02/21/11 22:57
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 14.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.9%
Tetrachlorometaxylene	78.1%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-216SC-1112.1-110218
SAMPLE

Lab Sample ID: SJ82B
LIMS ID: 11-3638
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ82-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/19/11
Date Analyzed: 02/21/11 23:53
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 18.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	88.4%
Tetrachlorometaxylene	77.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-314SC-0506-110218
SAMPLE

Lab Sample ID: SJ83F
LIMS ID: 11-3654
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ83-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/19/11
Date Analyzed: 02/22/11 00:50
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 14.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.6%
Tetrachlorometaxylene	74.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-314SC-0607-110218
SAMPLE

Lab Sample ID: SJ83G
LIMS ID: 11-3655
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ83-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/19/11
Date Analyzed: 02/22/11 01:09
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 15.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.0%
Tetrachlorometaxylene	77.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-314SC-0707.9-110218
SAMPLE

Lab Sample ID: SJ83H
LIMS ID: 11-3656
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ83-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/19/11
Date Analyzed: 02/22/11 01:27
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 21.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.9%
Tetrachlorometaxylene	66.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-1314SC-0506-110218
SAMPLE

Lab Sample ID: SJ83I
LIMS ID: 11-3657
Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

QC Report No: SJ83-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/19/11
Date Analyzed: 02/22/11 01:46
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 15.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	82.4%
Tetrachlorometaxylene	72.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-01SC-099.7-110218
SAMPLE

Lab Sample ID: SJ90A
LIMS ID: 11-3662
Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ90-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/21/11
Date Analyzed: 02/22/11 14:30
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 17.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.6%
Tetrachlorometaxylene	71.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-1007SC-0910-110218
SAMPLE

Lab Sample ID: SJ91A
LIMS ID: 11-3687
Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ91-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/21/11
Date Analyzed: 02/22/11 15:42
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 22.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.6%
Tetrachlorometaxylene	77.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0910-110218
SAMPLE

Lab Sample ID: SJ91B
LIMS ID: 11-3688
Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ91-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/21/11
Date Analyzed: 02/22/11 16:06
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 21.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.6%
Tetrachlorometaxylene	65.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-1011-110218
SAMPLE

Lab Sample ID: SJ91C
LIMS ID: 11-3689
Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ91-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/21/11
Date Analyzed: 02/22/11 16:29
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	88.6%
Tetrachlorometaxylene	80.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-1112.2-110218
SAMPLE

Lab Sample ID: SJ91D
LIMS ID: 11-3690
Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ91-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/21/11
Date Analyzed: 02/22/11 16:53
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 25.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	53.9%
Tetrachlorometaxylene	52.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JVE-RB-110218
SAMPLE

Lab Sample ID: SJ92A
LIMS ID: 11-3700
Matrix: Water
Data Release Authorized:
Reported: 03/01/11

QC Report No: SJ92-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/22/11
Date Analyzed: 02/23/11 20:47
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	65.8%
Tetrachlorometaxylene	66.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JVE-FB-110218
SAMPLE

Lab Sample ID: SJ92B
LIMS ID: 11-3701
Matrix: Water
Data Release Authorized:
Reported: 03/01/11

QC Report No: SJ92-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 02/22/11
Date Analyzed: 02/23/11 21:06
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	70.8%
Tetrachlorometaxylene	66.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-02SC-099.6-110221
SAMPLE

Lab Sample ID: SJ99A
LIMS ID: 11-3728
Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 02/22/11
Date Analyzed: 02/22/11 15:03
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 14.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	108%
Tetrachlorometaxylene	87.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-03SC-11-12.2-110221
SAMPLE

Lab Sample ID: SK00A
LIMS ID: 11-3739
Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

QC Report No: SK00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 02/22/11
Date Analyzed: 02/22/11 16:00
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 23.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**82**
11096-82-5	**Aroclor 1260**	**20**	**32**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.9%
Tetrachlorometaxylene	82.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-04SC-089.2-110221
SAMPLE

Lab Sample ID: SK01A
LIMS ID: 11-3752
Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

QC Report No: SK01-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 02/22/11
Date Analyzed: 02/22/11 16:18
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 13.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	92.9%
Tetrachlorometaxylene	79.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-0607-110216
SAMPLE

Lab Sample ID: SL49A
LIMS ID: 11-4486
Matrix: Sediment
Data Release Authorized:
Reported: 03/07/11

QC Report No: SL49-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Date Extracted: 03/04/11
Date Analyzed: 03/05/11 16:39
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 22.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 43.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	22	< 22 U
53469-21-9	**Aroclor 1242**	**22**	**410**
12672-29-6	Aroclor 1248	22	< 22 U
11097-69-1	**Aroclor 1254**	**22**	**460**
11096-82-5	**Aroclor 1260**	**22**	**140**
11104-28-2	Aroclor 1221	22	< 22 U
11141-16-5	Aroclor 1232	22	< 22 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.6%
Tetrachlorometaxylene	69.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-03SC-0708-110221
SAMPLE

Lab Sample ID: SL71A
LIMS ID: 11-4607
Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

QC Report No: SL71-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 03/07/11
Date Analyzed: 03/09/11 07:51
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 39.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	16	< 16 U
53469-21-9	Aroclor 1242	16	< 16 U
12672-29-6	Aroclor 1248	40	< 40 Y
11097-69-1	**Aroclor 1254**	**16**	**79**
11096-82-5	**Aroclor 1260**	**16**	**17**
11104-28-2	Aroclor 1221	16	< 16 U
11141-16-5	Aroclor 1232	16	< 16 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.5%
Tetrachlorometaxylene	85.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-03SC-0809-110221
SAMPLE

Lab Sample ID: SL71B
LIMS ID: 11-4608
Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

QC Report No: SL71-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 03/07/11
Date Analyzed: 03/09/11 08:15
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 24.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	16	< 16 U
53469-21-9	Aroclor 1242	16	< 16 U
12672-29-6	Aroclor 1248	62	< 62 Y
11097-69-1	**Aroclor 1254**	**16**	**96**
11096-82-5	**Aroclor 1260**	**16**	**38**
11104-28-2	Aroclor 1221	16	< 16 U
11141-16-5	Aroclor 1232	16	< 16 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.5%
Tetrachlorometaxylene	63.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-03SC-0910-110221
SAMPLE

Lab Sample ID: SL71C
LIMS ID: 11-4609
Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

QC Report No: SL71-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 03/07/11
Date Analyzed: 03/09/11 08:39
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 24.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	15	< 15 U
53469-21-9	Aroclor 1242	15	< 15 U
12672-29-6	Aroclor 1248	15	< 15 U
11097-69-1	**Aroclor 1254**	**15**	**22**
11096-82-5	Aroclor 1260	15	< 15 U
11104-28-2	Aroclor 1221	15	< 15 U
11141-16-5	Aroclor 1232	15	< 15 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.9%
Tetrachlorometaxylene	85.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-03SC-1011-110221
SAMPLE

Lab Sample ID: SL71D
LIMS ID: 11-4610
Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

QC Report No: SL71-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 03/07/11
Date Analyzed: 03/09/11 09:03
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 25.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	16	< 16 U
53469-21-9	Aroclor 1242	16	< 16 U
12672-29-6	Aroclor 1248	31	< 31 Y
11097-69-1	**Aroclor 1254**	**16**	**44**
11096-82-5	**Aroclor 1260**	**16**	**20**
11104-28-2	Aroclor 1221	16	< 16 U
11141-16-5	Aroclor 1232	16	< 16 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.9%
Tetrachlorometaxylene	91.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-04SC-0506-110221
SAMPLE

Lab Sample ID: SL71E
LIMS ID: 11-4611
Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

QC Report No: SL71-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 03/07/11
Date Analyzed: 03/09/11 09:27
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 16.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	16	< 16 U
53469-21-9	Aroclor 1242	16	< 16 U
12672-29-6	Aroclor 1248	16	< 16 U
11097-69-1	Aroclor 1254	16	< 16 U
11096-82-5	Aroclor 1260	16	< 16 U
11104-28-2	Aroclor 1221	16	< 16 U
11141-16-5	Aroclor 1232	16	< 16 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	112%
Tetrachlorometaxylene	96.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-04SC-0607-110221
SAMPLE

Lab Sample ID: SL71F
LIMS ID: 11-4612
Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

QC Report No: SL71-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 03/07/11
Date Analyzed: 03/09/11 09:50
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 12.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	16	< 16 U
53469-21-9	Aroclor 1242	16	< 16 U
12672-29-6	Aroclor 1248	16	< 16 U
11097-69-1	Aroclor 1254	16	< 16 U
11096-82-5	Aroclor 1260	16	< 16 U
11104-28-2	Aroclor 1221	16	< 16 U
11141-16-5	Aroclor 1232	16	< 16 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	93.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-04SC-0708-110221
SAMPLE

Lab Sample ID: SL71G
LIMS ID: 11-4613
Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

QC Report No: SL71-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 03/07/11
Date Analyzed: 03/09/11 10:14
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 12.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	16	< 16 U
53469-21-9	Aroclor 1242	16	< 16 U
12672-29-6	Aroclor 1248	16	< 16 U
11097-69-1	Aroclor 1254	16	< 16 U
11096-82-5	Aroclor 1260	16	< 16 U
11104-28-2	Aroclor 1221	16	< 16 U
11141-16-5	Aroclor 1232	16	< 16 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	118%
Tetrachlorometaxylene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-1004SC-0607-110221
SAMPLE

Lab Sample ID: SL72A
LIMS ID: 11-4614
Matrix: Sediment
Data Release Authorized:
Reported: 03/10/11

QC Report No: SL72-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 03/08/11
Date Analyzed: 03/09/11 18:35
Instrument/Analyst: ECD7/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 12.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.6%
Tetrachlorometaxylene	83.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-03SC-0607-110221
SAMPLE

Lab Sample ID: SM77A
LIMS ID: 11-5308
Matrix: Sediment
Data Release Authorized:
Reported: 03/14/11

QC Report No: SM77-Anchor QEA
Project: Joregnsen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 03/12/11
Date Analyzed: 03/14/11 09:53
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 10.0
Silica Gel: No

Percent Moisture: 38.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	80	< 80 U
53469-21-9	Aroclor 1242	80	< 80 U
12672-29-6	Aroclor 1248	1,000	< 1,000 Y
11097-69-1	**Aroclor 1254**	**80**	**1,000**
11096-82-5	**Aroclor 1260**	**80**	**360**
11104-28-2	Aroclor 1221	80	< 80 U
11141-16-5	Aroclor 1232	80	< 80 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	74.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-04SC-0405-110221
SAMPLE

Lab Sample ID: SM77B
LIMS ID: 11-5309
Matrix: Sediment
Data Release Authorized:
Reported: 03/14/11

QC Report No: SM77-Anchor QEA
Project: Joregnsen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 03/12/11
Date Analyzed: 03/14/11 10:11
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 13.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	96.2%
Tetrachlorometaxylene	87.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-206SC-0607-110316
SAMPLE

Lab Sample ID: SN49A
LIMS ID: 11-5862
Matrix: Sediment
Data Release Authorized:
Reported: 03/23/11

QC Report No: SN49-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 03/21/11
Date Analyzed: 03/22/11 09:42
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 48.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**110**
11097-69-1	**Aroclor 1254**	**20**	**100**
11096-82-5	**Aroclor 1260**	**20**	**31**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.5%
Tetrachlorometaxylene	86.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-206SC-0708-110316
SAMPLE

Lab Sample ID: SN49B
LIMS ID: 11-5863
Matrix: Sediment
Data Release Authorized:
Reported: 03/23/11

QC Report No: SN49-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 03/21/11
Date Analyzed: 03/22/11 15:40
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 25.0
Silica Gel: No

Percent Moisture: 44.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	99	< 99 U
53469-21-9	Aroclor 1242	99	< 99 U
12672-29-6	Aroclor 1248	990	< 990 Y
11097-69-1	**Aroclor 1254**	**99**	**920**
11096-82-5	**Aroclor 1260**	**99**	**340**
11104-28-2	Aroclor 1221	99	< 99 U
11141-16-5	Aroclor 1232	99	< 99 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	119%
Tetrachlorometaxylene	75.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-206SC-0809-110316
SAMPLE

Lab Sample ID: SN49C
LIMS ID: 11-5864
Matrix: Sediment
Data Release Authorized:
Reported: 03/23/11

QC Report No: SN49-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 03/21/11
Date Analyzed: 03/22/11 10:29
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 20.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 41.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	24	< 24 U
53469-21-9	Aroclor 1242	24	< 24 U
12672-29-6	Aroclor 1248	610	< 610 Y
11097-69-1	**Aroclor 1254**	**24**	**360 P**
11096-82-5	**Aroclor 1260**	**24**	**96**
11104-28-2	Aroclor 1221	24	< 24 U
11141-16-5	Aroclor 1232	24	< 24 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.4%
Tetrachlorometaxylene	61.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-206SC-0910-110316
SAMPLE

Lab Sample ID: SN49D
LIMS ID: 11-5865
Matrix: Sediment
Data Release Authorized:
Reported: 03/23/11

QC Report No: SN49-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 03/21/11
Date Analyzed: 03/22/11 10:53
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 38.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	490	< 490 Y
11097-69-1	**Aroclor 1254**	**20**	**350**
11096-82-5	**Aroclor 1260**	**20**	**85**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	114%
Tetrachlorometaxylene	84.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-206SC-1011-110316
SAMPLE

Lab Sample ID: SN49E
LIMS ID: 11-5866
Matrix: Sediment
Data Release Authorized: B
Reported: 03/23/11

QC Report No: SN49-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 03/21/11
Date Analyzed: 03/22/11 11:17
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 32.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	24	< 24 Y
11097-69-1	**Aroclor 1254**	**20**	**33**
11096-82-5	**Aroclor 1260**	**20**	**33**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	74.9%
Tetrachlorometaxylene	71.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-206SC-1112-110316
SAMPLE

Lab Sample ID: SN49F
LIMS ID: 11-5867
Matrix: Sediment
Data Release Authorized:
Reported: 03/23/11

QC Report No: SN49-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 03/21/11
Date Analyzed: 03/22/11 11:41
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 34.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**42**
11096-82-5	**Aroclor 1260**	**20**	**39**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	75.5%
Tetrachlorometaxylene	66.1%

FORM I

SN49:00026

EMJ014408

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-206SC-1213-110316
SAMPLE

Lab Sample ID: SN49G
LIMS ID: 11-5868
Matrix: Sediment
Data Release Authorized:
Reported: 03/23/11

QC Report No: SN49-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 03/21/11
Date Analyzed: 03/22/11 12:05
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 31.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	34	< 34 Y
11097-69-1	**Aroclor 1254**	**20**	**57**
11096-82-5	**Aroclor 1260**	**20**	**41**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.8%
Tetrachlorometaxylene	85.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-206SC-1313.6-110316
SAMPLE

Lab Sample ID: SN49H
LIMS ID: 11-5869
Matrix: Sediment
Data Release Authorized:
Reported: 03/23/11

QC Report No: SN49-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 03/21/11
Date Analyzed: 03/22/11 12:29
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 30.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	30	< 30 Y
11097-69-1	**Aroclor 1254**	**20**	**52**
11096-82-5	**Aroclor 1260**	**20**	**35**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.6%
Tetrachlorometaxylene	85.2%

FORM I

SN49 : 00028

EMJ014410

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-1206SC-1011-110316
SAMPLE

Lab Sample ID: SN49I
LIMS ID: 11-5870
Matrix: Sediment
Data Release Authorized:
Reported: 03/23/11

QC Report No: SN49-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 03/21/11
Date Analyzed: 03/22/11 12:53
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 32.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	24	< 24 Y
11097-69-1	**Aroclor 1254**	**19**	**42**
11096-82-5	**Aroclor 1260**	**19**	**40**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.4%
Tetrachlorometaxylene	88.5%

FORM I

SN49:00029

EMJ014411

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-0102-110216
SAMPLE

Lab Sample ID: SP67A
LIMS ID: 11-7113
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/05/11 20:13
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 51.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**27**
11097-69-1	**Aroclor 1254**	**20**	**38**
11096-82-5	**Aroclor 1260**	**20**	**24**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	79.0%
Tetrachlorometaxylene	73.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-0102-110216
SAMPLE

Lab Sample ID: SP67B
LIMS ID: 11-7114
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/07/11 15:20
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 50.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**48**
11097-69-1	**Aroclor 1254**	**20**	**61**
11096-82-5	**Aroclor 1260**	**20**	**39**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	97.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-0405-110217
SAMPLE

Lab Sample ID: SP67C
LIMS ID: 11-7115
Matrix: Sediment
Data Release Authorized:
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/05/11 20:51
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 16.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	83.5%
Tetrachlorometaxylene	75.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-316SC-0405-110217
SAMPLE

Lab Sample ID: SP67D
LIMS ID: 11-7116
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/05/11 21:10
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 20.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	**Aroclor 1260**	**20**	**58**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.5%
Tetrachlorometaxylene	64.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-0405-110217
SAMPLE

Lab Sample ID: SP67E
LIMS ID: 11-7117
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/05/11 21:28
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 39.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	58	< 58 Y
11097-69-1	**Aroclor 1254**	**20**	**110**
11096-82-5	**Aroclor 1260**	**20**	**98**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	51.2%
Tetrachlorometaxylene	34.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-314SC-0405-110218
SAMPLE

Lab Sample ID: SP67F
LIMS ID: 11-7118
Matrix: Sediment
Data Release Authorized:
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/05/11 22:25
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 7.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	77.2%
Tetrachlorometaxylene	69.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-216SC-0910-110218
SAMPLE

Lab Sample ID: SP67G
LIMS ID: 11-7119
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/05/11 23:21
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 17.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	83.8%
Tetrachlorometaxylene	83.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-322SC-0708-110218
SAMPLE

Lab Sample ID: SP67H
LIMS ID: 11-7120
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/07/11 11:11
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 10.0
Silica Gel: No

Percent Moisture: 37.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	40	< 40 U
53469-21-9	Aroclor 1242	40	< 40 U
12672-29-6	**Aroclor 1248**	**40**	**590**
11097-69-1	**Aroclor 1254**	**40**	**450**
11096-82-5	**Aroclor 1260**	**40**	**110**
11104-28-2	Aroclor 1221	40	< 40 U
11141-16-5	Aroclor 1232	40	< 40 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	111%
Tetrachlorometaxylene	84.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0809-110218
SAMPLE

Lab Sample ID: SP67I
LIMS ID: 11-7121
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/05/11 23:59
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 16.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	83.5%
Tetrachlorometaxylene	94.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-01SC-0708-110218
SAMPLE

Lab Sample ID: SP67J
LIMS ID: 11-7122
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/06/11 00:55
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 15.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	86.8%
Tetrachlorometaxylene	85.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-01SC-0809-110218
SAMPLE

Lab Sample ID: SP67K
LIMS ID: 11-7123
Matrix: Sediment
Data Release Authorized:
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/06/11 01:14
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 10.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**24**
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.8%
Tetrachlorometaxylene	84.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-02SC-0708-110221
SAMPLE

Lab Sample ID: SP67L
LIMS ID: 11-7124
Matrix: Sediment
Data Release Authorized:
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/06/11 01:33
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 12.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	83.8%
Tetrachlorometaxylene	81.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-02SC-0809-110221
SAMPLE

Lab Sample ID: SP67M
LIMS ID: 11-7125
Matrix: Sediment
Data Release Authorized:
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/06/11 01:52
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 13.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	82.8%
Tetrachlorometaxylene	78.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-04SC-0304-110221
SAMPLE

Lab Sample ID: SP67N
LIMS ID: 11-7126
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/08/11

QC Report No: SP67-Anchor QEA
Project: Jorgensen Sediment Charaterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 03/31/11

Date Extracted: 04/04/11
Date Analyzed: 04/06/11 02:10
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 17.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	**Aroclor 1260**	**19**	**71**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.5%
Tetrachlorometaxylene	69.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-01SC-0203-110218
SAMPLE

Lab Sample ID: SR99C
LIMS ID: 11-8263
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 19:31
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 20.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 10.0
Silica Gel: Yes

Percent Moisture: 17.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	48	< 48 U
53469-21-9	Aroclor 1242	48	< 48 U
12672-29-6	Aroclor 1248	360	< 360 Y
11097-69-1	**Aroclor 1254**	**48**	**1,000**
11096-82-5	**Aroclor 1260**	**48**	**180**
11104-28-2	Aroclor 1221	48	< 48 U
11141-16-5	Aroclor 1232	48	< 48 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	62.8%
Tetrachlorometaxylene	48.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-01SC-0304-110218
SAMPLE

Lab Sample ID: SR99D
LIMS ID: 11-8264
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 19:51
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 18.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	98	< 98 Y
11097-69-1	**Aroclor 1254**	**20**	**270**
11096-82-5	**Aroclor 1260**	**20**	**120**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	83.1%
Tetrachlorometaxylene	80.1%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-01SC-0405-110218
SAMPLE

Lab Sample ID: SR99E
LIMS ID: 11-8265
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 20:11
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 6.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.5%
Tetrachlorometaxylene	72.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-01SC-0506-110218
SAMPLE

Lab Sample ID: SR99F
LIMS ID: 11-8266
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 20:31
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 12.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	66.8%
Tetrachlorometaxylene	59.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-01SC-0607-110218
SAMPLE

Lab Sample ID: SR99G
LIMS ID: 11-8267
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 20:51
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 16.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	68.5%
Tetrachlorometaxylene	63.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-02SC-0001-110221
SAMPLE

Lab Sample ID: SR99H
LIMS ID: 11-8268
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 21:11
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 200
Silica Gel: Yes

Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	790	< 790 U
53469-21-9	Aroclor 1242	790	< 790 U
12672-29-6	Aroclor 1248	5,900	< 5,900 Y
11097-69-1	**Aroclor 1254**	**790**	**8,100**
11096-82-5	Aroclor 1260	990	< 990 Y
11104-28-2	Aroclor 1221	790	< 790 U
11141-16-5	Aroclor 1232	790	< 790 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-02SC-0102-110221
SAMPLE

Lab Sample ID: SR99I
LIMS ID: 11-8269
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 21:31
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 17.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**96**
11097-69-1	**Aroclor 1254**	**20**	**39**
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.2%
Tetrachlorometaxylene	68.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-02SC-0203-110221
SAMPLE

Lab Sample ID: SR99J
LIMS ID: 11-8270
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 21:51
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 19.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	74.8%
Tetrachlorometaxylene	70.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-02SC-0304-110221
SAMPLE

Lab Sample ID: SR99K
LIMS ID: 11-8271
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 22:11
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 15.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	70.8%
Tetrachlorometaxylene	70.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-02SC-0405-110221
SAMPLE

Lab Sample ID: SR99L
LIMS ID: 11-8272
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 23:11
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.0%
Tetrachlorometaxylene	69.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-02SC-0506-110221
SAMPLE

Lab Sample ID: SR99M
LIMS ID: 11-8273
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 23:31
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 10.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.0%
Tetrachlorometaxylene	68.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-02SC-0607-110221
SAMPLE

Lab Sample ID: SR99N
LIMS ID: 11-8274
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/21/11 00:31
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 12.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.2%
Tetrachlorometaxylene	67.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-04SC-0001-110221
SAMPLE

Lab Sample ID: SR99O
LIMS ID: 11-8275
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/21/11 00:51
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 47.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	200	< 200 Y
11097-69-1	**Aroclor 1254**	**20**	**470**
11096-82-5	**Aroclor 1260**	**20**	**150**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.2%
Tetrachlorometaxylene	85.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-04SC-0102-110221
SAMPLE

Lab Sample ID: SR99P
LIMS ID: 11-8276
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/21/11 01:11
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 21.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	99	< 99 Y
11097-69-1	**Aroclor 1254**	**20**	**160**
11096-82-5	**Aroclor 1260**	**20**	**70**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	82.1%
Tetrachlorometaxylene	81.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-04SC-0203-110221
SAMPLE

Lab Sample ID: SR99Q
LIMS ID: 11-8277
Matrix: Sediment
Data Release Authorized: B
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/21/11 01:30
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 17.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	**Aroclor 1254**	**19**	**22**
11096-82-5	**Aroclor 1260**	**19**	**32**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.1%
Tetrachlorometaxylene	74.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-03SC-0405-110221
SAMPLE

Lab Sample ID: SR99R
LIMS ID: 11-8278
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/21/11 01:50
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 48.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**480**
11097-69-1	**Aroclor 1254**	**20**	**600**
11096-82-5	**Aroclor 1260**	**20**	**210**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	99.5%
Tetrachlorometaxylene	71.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-03SC-0506-110221
SAMPLE

Lab Sample ID: SR99S
LIMS ID: 11-8279
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Date Extracted: 04/16/11
Date Analyzed: 04/21/11 02:10
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 49.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**590**
11097-69-1	**Aroclor 1254**	**20**	**700**
11096-82-5	**Aroclor 1260**	**20**	**210**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	96.9%
Tetrachlorometaxylene	70.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-207SC-0102-110216
SAMPLE

Lab Sample ID: SS00A
LIMS ID: 11-8282
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 04/15/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 14:17
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 52.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**80**
11097-69-1	**Aroclor 1254**	**20**	**120**
11096-82-5	**Aroclor 1260**	**20**	**64**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	86.2%
Tetrachlorometaxylene	74.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-215SC-0001-110216
SAMPLE

Lab Sample ID: SS00B
LIMS ID: 11-8283
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 04/15/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 14:41
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 53.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	59	< 59 Y
11097-69-1	**Aroclor 1254**	**20**	**140**
11096-82-5	**Aroclor 1260**	**20**	**62**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.8%
Tetrachlorometaxylene	77.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-210SC-0001-110216
SAMPLE

Lab Sample ID: SS00C
LIMS ID: 11-8284
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/16/11
Date Received: 04/15/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 15:05
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 52.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**50**
11097-69-1	**Aroclor 1254**	**20**	**87**
11096-82-5	**Aroclor 1260**	**20**	**64**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.0%
Tetrachlorometaxylene	71.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0506-110218
SAMPLE

Lab Sample ID: SS00D
LIMS ID: 11-8285
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 15:29
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 33.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	**Aroclor 1260**	**19**	**27**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.8%
Tetrachlorometaxylene	72.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0607-110218
SAMPLE

Lab Sample ID: SS00E
LIMS ID: 11-8286
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 15:53
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 26.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	**Aroclor 1260**	**20**	**30**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.8%
Tetrachlorometaxylene	78.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0708-110218
SAMPLE

Lab Sample ID: SS00F
LIMS ID: 11-8287
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 17:04
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 21.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.5%
Tetrachlorometaxylene	75.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-322SC-0607-110218
SAMPLE

Lab Sample ID: SS00G
LIMS ID: 11-8288
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Date Extracted: 04/16/11
Date Analyzed: 04/21/11 12:48
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 20.0
Silica Gel: Yes

Percent Moisture: 38.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	400	< 400 U
53469-21-9	Aroclor 1242	400	< 400 U
12672-29-6	**Aroclor 1248**	**400**	**1,300**
11097-69-1	**Aroclor 1254**	**400**	**1,000**
11096-82-5	Aroclor 1260	400	< 400 U
11104-28-2	Aroclor 1221	400	< 400 U
11141-16-5	Aroclor 1232	400	< 400 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	156%
Tetrachlorometaxylene	92.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-216SC-0708-110218
SAMPLE

Lab Sample ID: SS00H
LIMS ID: 11-8289
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 17:52
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 12.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.0%
Tetrachlorometaxylene	76.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-216SC-0809-110218
SAMPLE

Lab Sample ID: SS00I
LIMS ID: 11-8290
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 18:16
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 14.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.8%
Tetrachlorometaxylene	69.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-0304-110217
SAMPLE

Lab Sample ID: SS00J
LIMS ID: 11-8291
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 04/15/11

Date Extracted: 04/16/11
Date Analyzed: 04/20/11 19:28
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 33.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	29	< 29 Y
11097-69-1	**Aroclor 1254**	**20**	**86**
11096-82-5	**Aroclor 1260**	**20**	**84**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.8%
Tetrachlorometaxylene	66.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-01SC-0001-110218
SAMPLE

Lab Sample ID: SR99A
LIMS ID: 11-8261
Matrix: Sediment
Data Release Authorized:
Reported: 04/21/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 04/18/11
Date Analyzed: 04/21/11 03:50
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 2.61 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 48.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1,500	< 1,500 U
53469-21-9	Aroclor 1242	1,500	< 1,500 U
12672-29-6	Aroclor 1248	12,000	< 12,000 Y
11097-69-1	**Aroclor 1254**	**1,500**	**32,000**
11096-82-5	**Aroclor 1260**	**1,500**	**4,700**
11104-28-2	Aroclor 1221	1,500	< 1,500 U
11141-16-5	Aroclor 1232	1,500	< 1,500 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	95.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-01SC-0102-110218
SAMPLE

Lab Sample ID: SR99B
LIMS ID: 11-8262
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/22/11

QC Report No: SR99-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 04/18/11
Date Analyzed: 04/21/11 16:49
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 2.95 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 41.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1,400	< 1,400 U
53469-21-9	Aroclor 1242	1,400	< 1,400 U
12672-29-6	**Aroclor 1248**	**1,400**	**4,000**
11097-69-1	**Aroclor 1254**	**1,400**	**5,100**
11096-82-5	Aroclor 1260	1,400	< 1,400 U
11104-28-2	Aroclor 1221	1,400	< 1,400 U
11141-16-5	Aroclor 1232	1,400	< 1,400 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	99.2%
Tetrachlorometaxylene	95.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-0304-110217
SAMPLE

Lab Sample ID: SS00K
LIMS ID: 11-8292
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/22/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 04/15/11

Date Extracted: 04/18/11
Date Analyzed: 04/21/11 17:09
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 4.21 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 16.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	950	< 950 U
53469-21-9	Aroclor 1242	950	< 950 U
12672-29-6	Aroclor 1248	950	< 950 U
11097-69-1	Aroclor 1254	950	< 950 U
11096-82-5	Aroclor 1260	950	< 950 U
11104-28-2	Aroclor 1221	950	< 950 U
11141-16-5	Aroclor 1232	950	< 950 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	92.1%
Tetrachlorometaxylene	88.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-316SC-0304-110217
SAMPLE

Lab Sample ID: SS00L
LIMS ID: 11-8293
Matrix: Sediment
Data Release Authorized: MW
Reported: 04/22/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 04/15/11

Date Extracted: 04/18/11
Date Analyzed: 04/21/11 17:28
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 3.57 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1,100	< 1,100 U
53469-21-9	Aroclor 1242	1,100	< 1,100 U
12672-29-6	Aroclor 1248	1,100	< 1,100 U
11097-69-1	Aroclor 1254	1,100	< 1,100 U
11096-82-5	Aroclor 1260	1,100	< 1,100 U
11104-28-2	Aroclor 1221	1,100	< 1,100 U
11141-16-5	Aroclor 1232	1,100	< 1,100 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.5%
Tetrachlorometaxylene	91.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-0304-110217
SAMPLE

Lab Sample ID: SS00K
LIMS ID: 11-8292
Matrix: Sediment
Data Release Authorized:
Reported: 04/28/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 04/15/11

Date Extracted: 04/27/11
Date Analyzed: 04/27/11 21:54
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 16.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.0%
Tetrachlorometaxylene	67.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-316SC-0304-110217
SAMPLE

Lab Sample ID: SS00L
LIMS ID: 11-8293
Matrix: Sediment
Data Release Authorized:
Reported: 04/28/11

QC Report No: SS00-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 04/15/11

Date Extracted: 04/27/11
Date Analyzed: 04/28/11 12:33
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	160	< 160 U
53469-21-9	Aroclor 1242	160	< 160 U
12672-29-6	**Aroclor 1248**	**160**	**560 P**
11097-69-1	**Aroclor 1254**	**160**	**730**
11096-82-5	**Aroclor 1260**	**160**	**260**
11104-28-2	Aroclor 1221	160	< 160 U
11141-16-5	Aroclor 1232	160	< 160 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	70.8%
Tetrachlorometaxylene	48.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-309SC-0203-110217
SAMPLE

Lab Sample ID: ST93A
LIMS ID: 11-9362
Matrix: Sediment
Data Release Authorized:
Reported: 05/04/11

QC Report No: ST93-Anchor QEA, LLC
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/18/11

Date Extracted: 04/30/11
Date Analyzed: 05/03/11 16:55
Instrument/Analyst: ECD7/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.9 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 21.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	150	< 150 Y
11097-69-1	**Aroclor 1254**	**19**	**300**
11096-82-5	**Aroclor 1260**	**19**	**100**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	88.0%
Tetrachlorometaxylene	80.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-320SC-0203-110217
SAMPLE

Lab Sample ID: ST93B
LIMS ID: 11-9363
Matrix: Sediment
Data Release Authorized:
Reported: 05/04/11

QC Report No: ST93-Anchor QEA, LLC
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/18/11

Date Extracted: 04/30/11
Date Analyzed: 05/03/11 17:19
Instrument/Analyst: ECD7/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.9 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 44.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	290	< 290 Y
11097-69-1	**Aroclor 1254**	**19**	**970**
11096-82-5	**Aroclor 1260**	**19**	**810**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	76.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-314SC-0304-110218
SAMPLE

Lab Sample ID: ST93C
LIMS ID: 11-9364
Matrix: Sediment
Data Release Authorized:
Reported: 05/04/11

QC Report No: ST93-Anchor QEA, LLC
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 04/30/11
Date Analyzed: 05/03/11 17:42
Instrument/Analyst: ECD7/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 14.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	67.0%
Tetrachlorometaxylene	66.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-216SC-0607-110218
SAMPLE

Lab Sample ID: ST93D
LIMS ID: 11-9365
Matrix: Sediment
Data Release Authorized:
Reported: 05/04/11

QC Report No: ST93-Anchor QEA, LLC
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 04/30/11
Date Analyzed: 05/03/11 18:54
Instrument/Analyst: ECD7/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.9 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 29.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	**Aroclor 1260**	**19**	**41**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	44.9%
Tetrachlorometaxylene	46.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0405-110218
SAMPLE

Lab Sample ID: ST93E
LIMS ID: 11-9366
Matrix: Sediment
Data Release Authorized:
Reported: 05/04/11

QC Report No: ST93-Anchor QEA, LLC
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 04/30/11
Date Analyzed: 05/03/11 19:17
Instrument/Analyst: ECD7/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 36.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	**Aroclor 1260**	**19**	**87**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	48.9%
Tetrachlorometaxylene	42.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-216SC-0506-110218
SAMPLE

Lab Sample ID: SX21A
LIMS ID: 11-11070
Matrix: Sediment
Data Release Authorized:
Reported: 06/01/11

QC Report No: SX21-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 05/27/11
Date Analyzed: 05/31/11 12:31
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.2 g-dry-wt
Final Extract Volume: 12.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 34.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	**Aroclor 1248**	**19**	**210**
11097-69-1	**Aroclor 1254**	**19**	**340**
11096-82-5	**Aroclor 1260**	**19**	**130**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	63.0%
Tetrachlorometaxylene	74.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-314SC-0203-110218
SAMPLE

Lab Sample ID: SX21B
LIMS ID: 11-11071
Matrix: Sediment
Data Release Authorized:
Reported: 06/01/11

QC Report No: SX21-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 05/27/11
Date Analyzed: 05/31/11 12:54
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.9 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 20.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	59.8%
Tetrachlorometaxylene	71.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0304-110218
SAMPLE

Lab Sample ID: SX21C
LIMS ID: 11-11072
Matrix: Sediment
Data Release Authorized:
Reported: 06/01/11

QC Report No: SX21-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 05/27/11
Date Analyzed: 05/31/11 13:17
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.8 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 44.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	39	< 39 Y
11096-82-5	**Aroclor 1260**	**20**	**170**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	48.8%
Tetrachlorometaxylene	48.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-314SC-0001-110218
SAMPLE

Lab Sample ID: SZ26A
LIMS ID: 11-12241
Matrix: Sediment
Data Release Authorized:
Reported: 06/08/11

QC Report No: SZ26-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 06/06/11
Date Analyzed: 06/08/11 07:13
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.8 g-dry-wt
Final Extract Volume: 25.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 36.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	39	< 39 U
53469-21-9	Aroclor 1242	39	< 39 U
12672-29-6	Aroclor 1248	98	< 98 Y
11097-69-1	**Aroclor 1254**	**39**	**230**
11096-82-5	**Aroclor 1260**	**39**	**150**
11104-28-2	Aroclor 1221	39	< 39 U
11141-16-5	Aroclor 1232	39	< 39 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	74.2%
Tetrachlorometaxylene	71.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-314SC-0102-110218
SAMPLE

Lab Sample ID: SZ26B
LIMS ID: 11-12242
Matrix: Sediment
Data Release Authorized:
Reported: 06/08/11

QC Report No: SZ26-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 06/06/11
Date Analyzed: 06/07/11 12:44
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.0 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 32.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.8	< 3.8 U
53469-21-9	Aroclor 1242	3.8	< 3.8 U
12672-29-6	Aroclor 1248	17	< 17 Y
11097-69-1	Aroclor 1254	23	< 23 Y
11096-82-5	**Aroclor 1260**	**3.8**	**140**
11104-28-2	Aroclor 1221	3.8	< 3.8 U
11141-16-5	Aroclor 1232	3.8	< 3.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	77.8%
Tetrachlorometaxylene	63.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0203-110218
SAMPLE

Lab Sample ID: SZ26C
LIMS ID: 11-12243
Matrix: Sediment
Data Release Authorized:
Reported: 06/08/11

QC Report No: SZ26-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 06/06/11
Date Analyzed: 06/07/11 13:41
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.8 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 39.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	16	< 16 Y
11097-69-1	Aroclor 1254	29	< 29 Y
11096-82-5	**Aroclor 1260**	**3.9**	**120**
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	52.2%
Tetrachlorometaxylene	53.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0304-110218
SAMPLE

Lab Sample ID: SZ26D
LIMS ID: 11-12244
Matrix: Sediment
Data Release Authorized:
Reported: 06/08/11

QC Report No: SZ26-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 06/06/11
Date Analyzed: 06/08/11 07:32
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.1 g-dry-wt
Final Extract Volume: 25.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 43.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	38	< 38 U
53469-21-9	Aroclor 1242	38	< 38 U
12672-29-6	Aroclor 1248	38	< 38 U
11097-69-1	Aroclor 1254	38	< 38 U
11096-82-5	**Aroclor 1260**	**38**	**280**
11104-28-2	Aroclor 1221	38	< 38 U
11141-16-5	Aroclor 1232	38	< 38 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	71.0%
Tetrachlorometaxylene	54.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0001-110218
SAMPLE

Lab Sample ID: TA19A
LIMS ID: 11-12627
Matrix: Sediment
Data Release Authorized: MW
Reported: 06/14/11

QC Report No: TA19-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 06/11/11
Date Analyzed: 06/13/11 11:31
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.1 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 45.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	57	< 57 Y
11097-69-1	**Aroclor 1254**	**19**	**100**
11096-82-5	**Aroclor 1260**	**19**	**62**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	51.5%
Tetrachlorometaxylene	54.5%

FORM I

TA19:00010

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-07SC-0102-110218
SAMPLE

Lab Sample ID: TA19B
LIMS ID: 11-12628
Matrix: Sediment
Data Release Authorized:
Reported: 06/14/11

QC Report No: TA19-Anchor QEA
Project: Jorgensen Sediment Characterization 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Date Extracted: 06/11/11
Date Analyzed: 06/13/11 09:56
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.2 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 43.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	38	< 38 Y
11097-69-1	**Aroclor 1254**	**19**	**75**
11096-82-5	**Aroclor 1260**	**19**	**99**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.2%
Tetrachlorometaxylene	89.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-208SC-0506-110316
SAMPLE

Lab Sample ID: TH07A
LIMS ID: 11-16902
Matrix: Sediment
Data Release Authorized:
Reported: 08/09/11

QC Report No: TH07-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 08/06/11
Date Analyzed: 08/09/11 08:30
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.7 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: 51.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**120**
11097-69-1	**Aroclor 1254**	**20**	**140**
11096-82-5	**Aroclor 1260**	**20**	**48**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	42.8%
Tetrachlorometaxylene	53.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-208SC-0607-110316
SAMPLE

Lab Sample ID: TH07B
LIMS ID: 11-16903
Matrix: Sediment
Data Release Authorized:
Reported: 08/09/11

QC Report No: TH07-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 08/06/11
Date Analyzed: 08/09/11 08:49
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 10.0
Silica Gel: No

Percent Moisture: 47.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	40	< 40 U
53469-21-9	Aroclor 1242	40	< 40 U
12672-29-6	**Aroclor 1248**	**40**	**420**
11097-69-1	**Aroclor 1254**	**40**	**530**
11096-82-5	**Aroclor 1260**	**40**	**180**
11104-28-2	Aroclor 1221	40	< 40 U
11141-16-5	Aroclor 1232	40	< 40 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	51.2%
Tetrachlorometaxylene	50.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-208SC-0708-110316
SAMPLE

Lab Sample ID: TH07C
LIMS ID: 11-16904
Matrix: Sediment
Data Release Authorized:
Reported: 08/09/11

QC Report No: TH07-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 08/06/11
Date Analyzed: 08/09/11 09:08
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.8 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 100
Silica Gel: No

Percent Moisture: 44.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	390	< 390 U
53469-21-9	Aroclor 1242	390	< 390 U
12672-29-6	**Aroclor 1248**	**390**	**2,200**
11097-69-1	**Aroclor 1254**	**390**	**2,400**
11096-82-5	**Aroclor 1260**	**390**	**430**
11104-28-2	Aroclor 1221	390	< 390 U
11141-16-5	Aroclor 1232	390	< 390 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-208SC-0809-110316
SAMPLE

Lab Sample ID: TI28A
LIMS ID: 11-17624
Matrix: Sediment
Data Release Authorized:
Reported: 08/17/11

QC Report No: TI28-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 08/15/11
Date Analyzed: 08/16/11 10:41
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.0 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 25.0
Silica Gel: No

Percent Moisture: 43.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	96	< 96 U
53469-21-9	**Aroclor 1242**	**96**	**2,800**
12672-29-6	Aroclor 1248	96	< 96 U
11097-69-1	**Aroclor 1254**	**96**	**1,200**
11096-82-5	**Aroclor 1260**	**96**	**300**
11104-28-2	Aroclor 1221	96	< 96 U
11141-16-5	Aroclor 1232	96	< 96 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	80.6%
Tetrachlorometaxylene	102%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-208SC-0910-110316
SAMPLE

Lab Sample ID: TI28B
LIMS ID: 11-17625
Matrix: Sediment
Data Release Authorized:
Reported: 08/17/11

QC Report No: TI28-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 08/15/11
Date Analyzed: 08/16/11 11:00
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.9 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 25.0
Silica Gel: No

Percent Moisture: 44.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	97	< 97 U
53469-21-9	**Aroclor 1242**	**97**	**2,400**
12672-29-6	Aroclor 1248	97	< 97 U
11097-69-1	**Aroclor 1254**	**97**	**1,600**
11096-82-5	**Aroclor 1260**	**97**	**360**
11104-28-2	Aroclor 1221	97	< 97 U
11141-16-5	Aroclor 1232	97	< 97 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-208SC-1011-110316
SAMPLE

Lab Sample ID: TL06A
LIMS ID: 11-19126
Matrix: Sediment
Data Release Authorized: VD
Reported: 09/09/11

QC Report No: TL06-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 09/08/11
Date Analyzed: 09/09/11 11:52
Instrument/Analyst: ECD5/PKC
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.0 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 35.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	**Aroclor 1242**	**19**	**190**
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	**Aroclor 1254**	**19**	**180**
11096-82-5	**Aroclor 1260**	**19**	**110**
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.2%
Tetrachlorometaxylene	77.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-208SC-1112-110316
SAMPLE

Lab Sample ID: TL06B
LIMS ID: 11-19127
Matrix: Sediment
Data Release Authorized: VD
Reported: 09/09/11

QC Report No: TL06-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 09/08/11
Date Analyzed: 09/09/11 12:11
Instrument/Analyst: ECD5/PKC
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.8 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 32.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	39	< 39 Y
11097-69-1	**Aroclor 1254**	**20**	**87**
11096-82-5	**Aroclor 1260**	**20**	**31**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	67.2%
Tetrachlorometaxylene	68.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JVE-208SC-1212.5-110316
SAMPLE

Lab Sample ID: TM04A
LIMS ID: 11-19868
Matrix: Sediment
Data Release Authorized:
Reported: 09/16/11

QC Report No: TM04-Anchor QEA
Project: Jorgensen VE

Date Sampled: 03/16/11
Date Received: 03/16/11

Date Extracted: 09/14/11
Date Analyzed: 09/15/11 11:34
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.1 g-dry-wt
Final Extract Volume: 2.50 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 19.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	120	< 120 Y

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.8%
Tetrachlorometaxylene	68.5%

FORM I

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-0203-110216
ARI ID: 11-3385 SJ34C

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	53.80
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	2.11

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-0304-110216
ARI ID: 11-3386 SJ34D

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	57.70
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.82

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-0405-110216
ARI ID: 11-3387 SJ34E

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	58.00
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.06

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-0506-110216
ARI ID: 11-3388 SJ34F

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	59.10
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	2.50

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-0607-110216
ARI ID: 11-3389 SJ34G

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	62.60
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.58

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-0708-110216
ARI ID: 11-3390 SJ34H

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	65.40
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.52

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-0809-110216
ARI ID: 11-3391 SJ34I

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	63.00
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.78

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-0910-110216
ARI ID: 11-3392 SJ34J

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	61.20
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.95

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-1011-110216
ARI ID: 11-3393 SJ34K

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	70.10
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.40

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-1112-110216
ARI ID: 11-3394 SJ34L

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	74.70
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	0.649

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-215SC-1212.8-110216
ARI ID: 11-3395 SJ34M

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	75.60
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	0.390

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ34-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-1215SC-0607-110216
ARI ID: 11-3396 SJ34N

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	62.50
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	2.08

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-0203-110216
ARI ID: 11-3399 SJ35C

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	56.10
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	1.77

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-0304-110216
ARI ID: 11-3400 SJ35D

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	52.70
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	1.85

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-0405-110216
ARI ID: 11-3401 SJ35E

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	56.30
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	2.39

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-0506-110216
ARI ID: 11-3402 SJ35F

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	56.80
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	2.04

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-0607-110216
ARI ID: 11-3403 SJ35G

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	64.90
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	2.33

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-0708-110216
ARI ID: 11-3404 SJ35H

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	66.20
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	2.64

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-0809-110216
ARI ID: 11-3405 SJ35I

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	77.30
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	1.14

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-0910-110216
ARI ID: 11-3406 SJ35J

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	82.90
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	0.272

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-1011-110216
ARI ID: 11-3407 SJ35K

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	80.70
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	1.19

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-1112-110216
ARI ID: 11-3408 SJ35L

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	66.30
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	4.51

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ35-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-210SC-1212.7-110216
ARI ID: 11-3409 SJ35M

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	63.50
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	2.70

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-0203-110216
ARI ID: 11-3412 SJ36C

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	54.30
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.73

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-0304-110216
ARI ID: 11-3413 SJ36D

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	51.80
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	2.06

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-0405-110216
ARI ID: 11-3414 SJ36E

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	52.30
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	2.77

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-0506-110216
ARI ID: 11-3415 SJ36F

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	52.10
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	2.53

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-0607-110216
ARI ID: 11-3416 SJ36G

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	55.00
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	2.38

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-0708-110216
ARI ID: 11-3417 SJ36H

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	60.30
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.88

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-0809-110216
ARI ID: 11-3418 SJ36I

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	62.60
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	2.23

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-0910-110216
ARI ID: 11-3419 SJ36J

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	62.20
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	3.46

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-1011-110216
ARI ID: 11-3420 SJ36K

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	70.20
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.06

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-1112-110216
ARI ID: 11-3421 SJ36L

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	71.50
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	1.47

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ36-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-1212.6-110216
ARI ID: 11-3422 SJ36M

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/16/11 021611#1	EPA 160.3	Percent	0.01	80.80
Total Organic Carbon	02/17/11 021711#1	Plumb,1981	Percent	0.020	0.095

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ57-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-205SC-0203-110217
ARI ID: 11-3504 SJ57C

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	52.40
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	1.55

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ57-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-205SC-0304-110217
ARI ID: 11-3505 SJ57D

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	53.70
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	1.93

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ57-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-205SC-0405-110217
ARI ID: 11-3506 SJ57E

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	51.90
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	1.97

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ57-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-205SC-0506-110217
ARI ID: 11-3507 SJ57F

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	50.50
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	2.28

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ57-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-205SC-0607-110217
ARI ID: 11-3508 SJ57G

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	53.00
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	2.58

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ57-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-205SC-0708-110217
ARI ID: 11-3509 SJ57H

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	60.60
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	1.69

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ57-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-205SC-0809-110217
ARI ID: 11-3510 SJ57I

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	61.50
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	2.67

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ57-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-205SC-0910-110217
ARI ID: 11-3511 SJ57J

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	59.20
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.724

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ57-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-205SC-1011-110217
ARI ID: 11-3512 SJ57K

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	78.30
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.511

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ57-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-205SC-1112.1-110217
ARI ID: 11-3513 SJ57L

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	69.00
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.821

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ58-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-311SC-0506-110217
ARI ID: 11-3519 SJ58F

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	77.20
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	0.734

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ58-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-311SC-0607-110217
ARI ID: 11-3520 SJ58G

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	77.70
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	0.304

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ58-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-311SC-0708-110217
ARI ID: 11-3521 SJ58H

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	82.90
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	0.113

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ58-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-311SC-089.4-110217
ARI ID: 11-3522 SJ58I

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	84.70
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	0.829

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ62-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-316SC-0506-110217
ARI ID: 11-3529 SJ62F

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	82.30
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	0.254

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ62-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-316SC-0607-110217
ARI ID: 11-3530 SJ62G

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	77.40
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	0.323

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ62-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-316SC-0708-110217
ARI ID: 11-3531 SJ62H

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	83.50
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	0.111

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ62-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-316SC-0809-110217
ARI ID: 11-3532 SJ62I

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	85.70
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	0.151

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ62-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/21/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-316SC-099.7-110217
ARI ID: 11-3533 SJ62J

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	81.50
Total Organic Carbon	02/18/11 021811#1	Plumb,1981	Percent	0.020	0.119

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ63-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-309SC-0506-110217
ARI ID: 11-3539 SJ63F

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	81.10
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	1.03

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ63-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-309SC-0607-110217
ARI ID: 11-3540 SJ63G

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	80.20
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.131

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ63-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-309SC-0708-110217
ARI ID: 11-3541 SJ63H

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	75.20
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.617

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ63-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-309SC-0809-110217
ARI ID: 11-3542 SJ63I

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	73.70
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.767

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ63-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-309SC-0910-110217
ARI ID: 11-3543 SJ63J

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	78.70
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.185

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ63-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-309SC-1011-110217
ARI ID: 11-3544 SJ63K

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	76.20
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.376

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ63-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-309SC-1111.5-110217
ARI ID: 11-3545 SJ63L

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	60.20
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	2.55

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ63-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-1205SC-0203-110217
ARI ID: 11-3546 SJ63M

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	52.30
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	1.66

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ63-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/17/11

Client ID: JVE-1309SC-0910-110217
ARI ID: 11-3547 SJ63N

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/17/11 021711#1	EPA 160.3	Percent	0.01	79.40
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.138

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ81-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-322SC-0809-110218
ARI ID: 11-3624 SJ81A

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	72.10
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	1.86

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ81-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-322SC-0910-110218
ARI ID: 11-3625 SJ81B

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	80.10
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	1.94

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ81-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-322SC-1011-110218
ARI ID: 11-3626 SJ81C

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	86.40
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	0.932

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ81-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-322SC-1112.4-110218
ARI ID: 11-3627 SJ81D

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	77.10
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	1.88

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ82-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-216SC-1011-110218
ARI ID: 11-3637 SJ82A

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	86.20
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.240

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ82-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-216SC-1112.1-110218
ARI ID: 11-3638 SJ82B

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	80.20
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.327

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ83-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-314SC-0506-110218
ARI ID: 11-3654 SJ83F

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	86.10
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.527

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ83-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-314SC-0607-110218
ARI ID: 11-3655 SJ83G

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	84.70
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.916

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ83-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-314SC-0707.9-110218
ARI ID: 11-3656 SJ83H

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	80.20
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.726

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ83-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-1314SC-0506-110218
ARI ID: 11-3657 SJ83I

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	85.00
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.581

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ90-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/22/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-01SC-099.7-110218
ARI ID: 11-3662 SJ90A

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	81.80
Total Organic Carbon	02/21/11 022111#1	Plumb,1981	Percent	0.020	0.068

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ91-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-1007SC-0910-110218
ARI ID: 11-3687 SJ91A

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	77.10
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	3.98

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ91-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-07SC-0910-110218
ARI ID: 11-3688 SJ91B

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	78.10
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	2.23

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ91-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-07SC-1011-110218
ARI ID: 11-3689 SJ91C

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	76.70
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	1.39

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ91-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-07SC-1112.2-110218
ARI ID: 11-3690 SJ91D

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/18/11 021811#1	EPA 160.3	Percent	0.01	76.00
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	4.39

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SJ99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-02SC-099.6-110221
ARI ID: 11-3728 SJ99A

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/21/11 022111#1	EPA 160.3	Percent	0.01	84.50
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	0.072

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SK00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-03SC-11-12.2-110221
ARI ID: 11-3739 SK00A

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/21/11 022111#1	EPA 160.3	Percent	0.01	76.40
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	1.20

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SK01-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/23/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-04SC-089.2-110221
ARI ID: 11-3752 SK01A

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/21/11 022111#1	EPA 160.3	Percent	0.01	86.20
Total Organic Carbon	02/22/11 022211#1	Plumb,1981	Percent	0.020	0.104

RL Analytical reporting limit
U Undetected at reported detection limit

SJ99:00062

EMJ014560

SAMPLE RESULTS-CONVENTIONALS
SL49-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 02/16/11

Client ID: JVE-207SC-0607-110216
ARI ID: 11-4486 SL49A

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/07/11 030711#1	EPA 160.3	Percent	0.01	55.50
Total Organic Carbon	03/08/11 030811#1	Plumb,1981	Percent	0.020	2.32

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SL71-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-03SC-0708-110221
ARI ID: 11-4607 SL71A

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/07/11 030711#1	EPA 160.3	Percent	0.01	59.60
Total Organic Carbon	03/08/11 030811#1	Plumb,1981	Percent	0.020	1.49

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SL71-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-03SC-0809-110221
ARI ID: 11-4608 SL71B

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/07/11 030711#1	EPA 160.3	Percent	0.01	75.20
Total Organic Carbon	03/08/11 030811#1	Plumb,1981	Percent	0.020	1.31

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SL71-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-03SC-0910-110221
ARI ID: 11-4609 SL71C

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/07/11 030711#1	EPA 160.3	Percent	0.01	74.80
Total Organic Carbon	03/08/11 030811#1	Plumb,1981	Percent	0.020	1.33

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SL71-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-03SC-1011-110221
ARI ID: 11-4610 SL71D

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/07/11 030711#1	EPA 160.3	Percent	0.01	74.10
Total Organic Carbon	03/08/11 030811#1	Plumb,1981	Percent	0.020	1.38

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SL71-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-04SC-0506-110221
ARI ID: 11-4611 SL71E

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/07/11 030711#1	EPA 160.3	Percent	0.01	81.40
Total Organic Carbon	03/08/11 030811#1	Plumb,1981	Percent	0.020	0.142

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SL71-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-04SC-0607-110221
ARI ID: 11-4612 SL71F

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/07/11 030711#1	EPA 160.3	Percent	0.01	84.30
Total Organic Carbon	03/08/11 030811#1	Plumb,1981	Percent	0.020	0.085

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SL71-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-04SC-0708-110221
ARI ID: 11-4613 SL71G

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/07/11 030711#1	EPA 160.3	Percent	0.01	85.00
Total Organic Carbon	03/08/11 030811#1	Plumb,1981	Percent	0.020	0.138

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SL72-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/09/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-1004SC-0607-110221
ARI ID: 11-4614 SL72A

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/07/11 030711#1	EPA 160.3	Percent	0.01	86.10
Total Organic Carbon	03/08/11 030811#1	Plumb,1981	Percent	0.020	0.110

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SM77-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/15/11

Project: Joregnsen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-03SC-0607-110221
ARI ID: 11-5308 SM77A

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/11/11 031111#1	EPA 160.3	Percent	0.01	63.00
Total Organic Carbon	03/14/11 031411#1	Plumb,1981	Percent	0.020	1.86

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SM77-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/15/11

Project: Joregnsen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-04SC-0405-110221
ARI ID: 11-5309 SM77B

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/11/11 031111#1	EPA 160.3	Percent	0.01	86.10
Total Organic Carbon	03/14/11 031411#1	Plumb,1981	Percent	0.020	0.114

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SN49-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/21/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-206SC-0607-110316
ARI ID: 11-5862 SN49A

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/16/11 031611#1	EPA 160.3	Percent	0.01	52.70
Total Organic Carbon	03/18/11 031811#1	Plumb,1981	Percent	0.020	2.48

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SN49-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/21/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-206SC-0708-110316
ARI ID: 11-5863 SN49B

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/16/11 031611#1	EPA 160.3	Percent	0.01	56.30
Total Organic Carbon	03/18/11 031811#1	Plumb,1981	Percent	0.020	2.10

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SN49-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/21/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-206SC-0809-110316
ARI ID: 11-5864 SN49C

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/16/11 031611#1	EPA 160.3	Percent	0.01	58.90
Total Organic Carbon	03/18/11 031811#1	Plumb,1981	Percent	0.020	2.19

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SN49-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/21/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-206SC-0910-110316
ARI ID: 11-5865 SN49D

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/16/11 031611#1	EPA 160.3	Percent	0.01	62.30
Total Organic Carbon	03/18/11 031811#1	Plumb,1981	Percent	0.020	1.76

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SN49-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/21/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-206SC-1011-110316
ARI ID: 11-5866 SN49E

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/16/11 031611#1	EPA 160.3	Percent	0.01	68.00
Total Organic Carbon	03/18/11 031811#1	Plumb,1981	Percent	0.020	1.54

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SN49-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/21/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-206SC-1112-110316
ARI ID: 11-5867 SN49F

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/16/11 031611#1	EPA 160.3	Percent	0.01	66.80
Total Organic Carbon	03/18/11 031811#1	Plumb,1981	Percent	0.020	2.24

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SN49-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/21/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-206SC-1213-110316
ARI ID: 11-5868 SN49G

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/16/11 031611#1	EPA 160.3	Percent	0.01	69.20
Total Organic Carbon	03/18/11 031811#1	Plumb,1981	Percent	0.020	1.78

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SN49-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/21/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-206SC-1313.6-110316
ARI ID: 11-5869 SN49H

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/16/11 031611#1	EPA 160.3	Percent	0.01	70.10
Total Organic Carbon	03/18/11 031811#1	Plumb,1981	Percent	0.020	1.67

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SN49-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 03/21/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-1206SC-1011-110316
ARI ID: 11-5870 SN49I

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/16/11 031611#1	EPA 160.3	Percent	0.01	68.20
Total Organic Carbon	03/18/11 031811#1	Plumb,1981	Percent	0.020	1.69

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 03/31/11

Client ID: JVE-210SC-0102-110216
ARI ID: 11-7113 SP67A

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	50.00
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	2.11

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 03/31/11

Client ID: JVE-215SC-0102-110216
ARI ID: 11-7114 SP67B

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	51.50
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	1.53

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 03/31/11

Client ID: JVE-309SC-0405-110217
ARI ID: 11-7115 SP67C

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	81.60
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	0.137

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 03/31/11

Client ID: JVE-316SC-0405-110217
ARI ID: 11-7116 SP67D

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	80.70
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	0.734

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 03/31/11

Client ID: JVE-320SC-0405-110217
ARI ID: 11-7117 SP67E

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	59.60
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	2.00

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Client ID: JVE-314SC-0405-110218
ARI ID: 11-7118 SP67F

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	93.00
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	0.795

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Client ID: JVE-216SC-0910-110218
ARI ID: 11-7119 SP67G

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	83.80
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	0.127

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Client ID: JVE-322SC-0708-110218
ARI ID: 11-7120 SP67H

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	62.70
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	2.06

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Client ID: JVE-07SC-0809-110218
ARI ID: 11-7121 SP67I

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	83.40
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	1.69

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Client ID: JVE-01SC-0708-110218
ARI ID: 11-7122 SP67J

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	83.50
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	0.315

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 03/31/11

Client ID: JVE-01SC-0809-110218
ARI ID: 11-7123 SP67K

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	87.90
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	0.048

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 03/31/11

Client ID: JVE-02SC-0708-110221
ARI ID: 11-7124 SP67L

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	87.00
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	0.044

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 03/31/11

Client ID: JVE-02SC-0809-110221
ARI ID: 11-7125 SP67M

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	82.80
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	0.096

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SP67-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/05/11

Project: Jorgensen Sediment Charateri
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 03/31/11

Client ID: JVE-04SC-0304-110221
ARI ID: 11-7126 SP67N

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/31/11 033111#1	EPA 160.3	Percent	0.01	81.60
Total Organic Carbon	04/04/11 040411#1	Plumb,1981	Percent	0.020	0.357

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-01SC-0001-110218
ARI ID: 11-8261 SR99A

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	47.80
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	3.21

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-01SC-0102-110218
ARI ID: 11-8262 SR99B

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	59.40
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	2.50

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-01SC-0203-110218
ARI ID: 11-8263 SR99C

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	80.90
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.528

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-01SC-0304-110218
ARI ID: 11-8264 SR99D

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	80.70
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.347

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-01SC-0405-110218
ARI ID: 11-8265 SR99E

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	93.40
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.118

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-01SC-0506-110218
ARI ID: 11-8266 SR99F

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	85.90
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.292

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-01SC-0607-110218
ARI ID: 11-8267 SR99G

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	80.60
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.467

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-02SC-0001-110221
ARI ID: 11-8268 SR99H

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	76.60
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	2.57

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-02SC-0102-110221
ARI ID: 11-8269 SR99I

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	80.90
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.153

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-02SC-0203-110221
ARI ID: 11-8270 SR99J

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	79.50
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.114

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-02SC-0304-110221
ARI ID: 11-8271 SR99K

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	84.50
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.081

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-02SC-0405-110221
ARI ID: 11-8272 SR99L

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	91.90
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.101

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-02SC-0506-110221
ARI ID: 11-8273 SR99M

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	87.00
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.110

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-02SC-0607-110221
ARI ID: 11-8274 SR99N

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	85.20
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.071

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-04SC-0001-110221
ARI ID: 11-8275 SR99O

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	53.80
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	2.54

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-04SC-0102-110221
ARI ID: 11-8276 SR99P

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	77.80
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	1.66

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-04SC-0203-110221
ARI ID: 11-8277 SR99Q

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	81.90
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.167

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-03SC-0405-110221
ARI ID: 11-8278 SR99R

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	53.00
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	2.21

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SR99-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/21/11
Date Received: 02/21/11

Client ID: JVE-03SC-0506-110221
ARI ID: 11-8279 SR99S

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	51.10
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	2.47

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 04/15/11

Client ID: JVE-207SC-0102-110216
ARI ID: 11-8282 SS00A

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	48.00
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	2.03

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 04/15/11

Client ID: JVE-215SC-0001-110216
ARI ID: 11-8283 SS00B

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	47.50
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	2.26

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/16/11
Date Received: 04/15/11

Client ID: JVE-210SC-0001-110216
ARI ID: 11-8284 SS00C

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	47.60
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	2.62

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Client ID: JVE-07SC-0506-110218
ARI ID: 11-8285 SS00D

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	66.00
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	1.44

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Client ID: JVE-07SC-0607-110218
ARI ID: 11-8286 SS00E

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	73.10
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.825

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Client ID: JVE-07SC-0708-110218
ARI ID: 11-8287 SS00F

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	79.10
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.396

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Client ID: JVE-322SC-0607-110218
ARI ID: 11-8288 SS00G

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	61.20
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	2.79

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Client ID: JVE-216SC-0708-110218
ARI ID: 11-8289 SS00H

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	86.90
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.120

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 04/15/11

Client ID: JVE-216SC-0809-110218
ARI ID: 11-8290 SS00I

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	85.20
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.160

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 04/15/11

Client ID: JVE-320SC-0304-110217
ARI ID: 11-8291 SS00J

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	66.40
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	1.91

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 04/15/11

Client ID: JVE-309SC-0304-110217
ARI ID: 11-8292 SS00K

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	84.60
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	0.206

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS00-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 04/19/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 04/15/11

Client ID: JVE-316SC-0304-110217
ARI ID: 11-8293 SS00L

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/15/11 041511#1	EPA 160.3	Percent	0.01	72.30
Total Organic Carbon	04/18/11 041811#1	Plumb,1981	Percent	0.020	1.78

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ST93-Anchor QEA, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/04/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/18/11

Client ID: JVE-309SC-0203-110217
ARI ID: 11-9362 ST93A

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/28/11 042811#1	EPA 160.3	Percent	0.01	77.90
Total Organic Carbon	05/03/11 050311#1	Plumb,1981	Percent	0.020	0.551

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ST93-Anchor QEA, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/04/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/17/11
Date Received: 02/18/11

Client ID: JVE-320SC-0203-110217
ARI ID: 11-9363 ST93B

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/28/11 042811#1	EPA 160.3	Percent	0.01	57.60
Total Organic Carbon	05/03/11 050311#1	Plumb,1981	Percent	0.020	2.95

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ST93-Anchor QEA, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/04/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-314SC-0304-110218
ARI ID: 11-9364 ST93C

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/28/11 042811#1	EPA 160.3	Percent	0.01	85.70
Total Organic Carbon	05/03/11 050311#1	Plumb,1981	Percent	0.020	0.659

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ST93-Anchor QEA, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/04/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-216SC-0607-110218
ARI ID: 11-9365 ST93D

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/28/11 042811#1	EPA 160.3	Percent	0.01	70.90
Total Organic Carbon	05/03/11 050311#1	Plumb,1981	Percent	0.020	1.63

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
ST93-Anchor QEA, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/04/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-07SC-0405-110218
ARI ID: 11-9366 ST93E

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/28/11 042811#1	EPA 160.3	Percent	0.01	59.50
Total Organic Carbon	05/03/11 050311#1	Plumb,1981	Percent	0.020	1.29

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SX21-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/25/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-216SC-0506-110218
ARI ID: 11-11070 SX21A

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/18/11 051811#1	EPA 160.3	Percent	0.01	65.00
Total Organic Carbon	05/20/11 052011#1	Plumb,1981	Percent	0.020	2.05

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SX21-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/25/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-314SC-0203-110218
ARI ID: 11-11071 SX21B

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/18/11 051811#1	EPA 160.3	Percent	0.01	77.20
Total Organic Carbon	05/20/11 052011#1	Plumb,1981	Percent	0.020	0.815

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SX21-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/25/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-07SC-0304-110218
ARI ID: 11-11072 SX21C

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/18/11 051811#1	EPA 160.3	Percent	0.01	55.80
Total Organic Carbon	05/20/11 052011#1	Plumb,1981	Percent	0.020	2.55

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SZ26-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/08/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-314SC-0001-110218
ARI ID: 11-12241 SZ26A

Analyte	Date	Method	Units	RL	Sample
Total Solids	06/06/11 060611#1	EPA 160.3	Percent	0.01	61.70
Total Organic Carbon	06/07/11 060711#1	Plumb,1981	Percent	0.020	1.94

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SZ26-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/08/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-314SC-0102-110218
ARI ID: 11-12242 SZ26B

Analyte	Date	Method	Units	RL	Sample
Total Solids	06/06/11 060611#1	EPA 160.3	Percent	0.01	66.40
Total Organic Carbon	06/07/11 060711#1	Plumb,1981	Percent	0.020	1.04

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SZ26-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/08/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-07SC-0203-110218
ARI ID: 11-12243 SZ26C

Analyte	Date	Method	Units	RL	Sample
Total Solids	06/06/11 060611#1	EPA 160.3	Percent	0.01	58.10
Total Organic Carbon	06/07/11 060711#1	Plumb,1981	Percent	0.020	1.72

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SZ26-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/08/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-07SC-0304-110218
ARI ID: 11-12244 SZ26D

Analyte	Date	Method	Units	RL	Sample
Total Solids	06/06/11 060611#1	EPA 160.3	Percent	0.01	56.50
Total Organic Carbon	06/07/11 060711#1	Plumb,1981	Percent	0.020	3.22

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TA19-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/15/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-07SC-0001-110218
ARI ID: 11-12627 TA19A

Analyte	Date	Method	Units	RL	Sample
Total Solids	06/13/11 061311#1	EPA 160.3	Percent	0.01	55.10
Total Organic Carbon	06/14/11 061411#1	Plumb,1981	Percent	0.020	2.43

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TA19-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/15/11

Project: Jorgensen Sediment Character
Event: 080224-01.01
Date Sampled: 02/18/11
Date Received: 02/18/11

Client ID: JVE-07SC-0102-110218
ARI ID: 11-12628 TA19B

Analyte	Date	Method	Units	RL	Sample
Total Solids	06/13/11 061311#1	EPA 160.3	Percent	0.01	56.50
Total Organic Carbon	06/14/11 061411#1	Plumb,1981	Percent	0.020	1.68

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TH07-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/11/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-208SC-0506-110316
ARI ID: 11-16902 TH07A

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/08/11 080811#1	EPA 160.3	Percent	0.01	50.90
Total Organic Carbon	08/09/11 080911#1	Plumb,1981	Percent	0.020	2.27

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TH07-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/11/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-208SC-0607-110316
ARI ID: 11-16903 TH07B

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/08/11 080811#1	EPA 160.3	Percent	0.01	52.90
Total Organic Carbon	08/09/11 080911#1	Plumb,1981	Percent	0.020	2.41

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TH07-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/11/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-208SC-0708-110316
ARI ID: 11-16904 TH07C

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/08/11 080811#1	EPA 160.3	Percent	0.01	55.10
Total Organic Carbon	08/09/11 080911#1	Plumb,1981	Percent	0.020	2.71

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TI28-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/18/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-208SC-0809-110316
ARI ID: 11-17624 TI28A

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/12/11 081211#1	EPA 160.3	Percent	0.01	55.20
Total Organic Carbon	08/16/11 081611#1	Plumb,1981	Percent	0.020	2.78

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TI28-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/18/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-208SC-0910-110316
ARI ID: 11-17625 TI28B

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/12/11 081211#1	EPA 160.3	Percent	0.01	55.40
Total Organic Carbon	08/16/11 081611#1	Plumb,1981	Percent	0.020	2.79

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TL06-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 09/09/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-208SC-1011-110316
ARI ID: 11-19126 TL06A

Analyte	Date	Method	Units	RL	Sample
Total Solids	09/07/11 090711#1	EPA 160.3	Percent	0.01	64.30
Total Organic Carbon	09/08/11 090811#1	Plumb,1981	Percent	0.020	2.24

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TL06-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 09/09/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-208SC-1112-110316
ARI ID: 11-19127 TL06B

Analyte	Date	Method	Units	RL	Sample
Total Solids	09/07/11 090711#1	EPA 160.3	Percent	0.01	66.00
Total Organic Carbon	09/08/11 090811#1	Plumb,1981	Percent	0.020	2.02

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
TM04-Anchor QEA

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 09/15/11

Project: Jorgensen VE
Event: NA
Date Sampled: 03/16/11
Date Received: 03/16/11

Client ID: JVE-208SC-1212.5-110316
ARI ID: 11-19868 TM04A

Analyte	Date	Method	Units	RL	Sample
Total Solids	09/13/11 091311#1	EPA 160.3	Percent	0.01	81.70
Total Organic Carbon	09/14/11 091411#1	Plumb,1981	Percent	0.020	0.110

RL Analytical reporting limit
U Undetected at reported detection limit

Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437 **Web** www.lab-data.com **Fax** 760.634.0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

April 28, 2011

SUBJECT: Jorgensen Forge Facility, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on April 15, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 25302:

SDG #	Fraction
SJ34/SJ35/SJ36, SJ57/SJ58, SJ61/SJ62, SJ63, SJ81/SJ82/SJ83 SJ90/SJ91, SJ92, SJ99/SK00/SK01, SL49, SL71/SL72, SN49, SM77, SP67	Polychlorinated Biphenyls, Wet Chemistry

The data validation was performed under EPA Level II & IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella Cuenco

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

V:\LOGIN\Anchor\Jorgensen\25302COV.wpd

EDD 90/10

LDC #25302 (Anchor Environmental-Seattle WA /Jorgensen Forge Facility)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		TOC (Plumb)		Total Solids (160.3)																															
Matrix:	Water/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	SJ34/SJ35/SJ36	04/15/11	05/06/11	0	34	0	34	0	34																														
B	SJ57/SJ58	04/15/11	05/06/11	0	14	0	14	0	14																														
C	SJ61/SJ62	04/15/11	05/06/11	0	13	0	13	0	13																														
D	SJ63	04/15/11	05/06/11	0	9	0	9	0	9																														
E	SJ81/SJ82/SJ83	04/15/11	05/06/11	0	10	0	10	0	10																														
F	SJ90/SJ91	04/15/11	05/06/11	0	5	0	5	0	5																														
G	SJ92	04/15/11	05/06/11	2	0	-	-	-	-																														
H	SJ99/SK00/SK01	04/15/11	05/06/11	0	3	0	3	0	3																														
I	SL49	04/15/11	05/06/11	0	1	0	1	0	1																														
J	SL71/SL72	04/15/11	05/06/11	0	8	0	8	0	8																														
K	SN49	04/15/11	05/06/11	0	9	0	9	0	9																														
L	SM77	04/15/11	05/06/11	0	2	0	2	0	2																														
M	SP67	04/15/11	05/06/11	0	14	0	14	0	14																														
Total	T/SC			2	122	0	122	0	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

25302ST.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Jorgensen Forge Facility

Collection Date: February 16, 2011

LDC Report Date: April 22, 2011

Matrix: Sediment

Parameters: Polychlorinated Biphenyls

Validation Level: EPA Level III

Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): SJ34/SJ35/SJ36

Sample Identification

JVE-215SC-0203-110216	JVE-210SC-1011-110216
JVE-215SC-0304-110216	JVE-210SC-1112-110216
JVE-215SC-0405-110216	JVE-210SC-1212.7-110216
JVE-215SC-0506-110216	JVE-207SC-0203-110216
JVE-215SC-0607-110216	JVE-207SC-0304-110216
JVE-215SC-0708-110216	JVE-207SC-0405-110216
JVE-215SC-0809-110216	JVE-207SC-0506-110216
JVE-215SC-0910-110216	JVE-207SC-0607-110216
JVE-215SC-1011-110216	JVE-207SC-0708-110216
JVE-215SC-1112-110216	JVE-207SC-0809-110216
JVE-215SC-1212.8-110216	JVE-207SC-0910-110216
JVE-1215SC-0607-110216	JVE-207SC-1011-110216
JVE-210SC-0203-110216	JVE-207SC-1112-110216
JVE-210SC-0304-110216	JVE-207SC-1212.6-110216
JVE-210SC-0405-110216	JVE-215SC-1212.8-110216MS
JVE-210SC-0506-110216	JVE-215SC-1212.8-110216MSD
JVE-210SC-0607-110216	JVE-210SC-0910-110216MS
JVE-210SC-0708-110216	JVE-210SC-0910-110216MSD
JVE-210SC-0809-110216	JVE-207SC-1212.6-110216MS
JVE-210SC-0910-110216	JVE-207SC-1212.6-110216MSD

Introduction

This data review covers 40 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

Samples JVE-215SC-0607-110216 and JVE-1215SC-0607-110216 were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)
	JVE-215SC-0607-110216	JVE-1215SC-0607-110216	
Aroclor-1254	66	19	110 (≤50)
Aroclor-1260	21	19U	200 (≤50)

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SJ34/SJ35/SJ36

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SJ34/SJ35/SJ36

No Sample Data Qualified in this SDG

LDC #: 25302A3b

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 4-21-11

SDG #: SJ34/SJ35/SJ36

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/16/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20 %
V.	Blanks	A	
VI.	Surrogate spikes TCS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	FD = 5+12
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All sediment

1	JVE-215SC-0203-110216	11	JVE-215SC-1212.8-110216	21	JVE-210SC-1011-110216	31	JVE-207SC-0910-110216
2	JVE-215SC-0304-110216	12	JVE-1215SC-0607-110216	22	JVE-210SC-1112-110216	32	JVE-207SC-1011-110216
3	JVE-215SC-0405-110216	13	JVE-210SC-0203-110216	23	JVE-210SC-1212.7-110216	33	JVE-207SC-1112-110216
4	JVE-215SC-0506-110216	14	JVE-210SC-0304-110216	24	JVE-207SC-0203-110216	34	JVE-207SC-1212.6-110216
5	JVE-215SC-0607-110216	15	JVE-210SC-0405-110216	25	JVE-207SC-0304-110216	35	JVE-215SC-1212.8-110216MS
6	JVE-215SC-0708-110216	16	JVE-210SC-0506-110216	26	JVE-207SC-0405-110216	36	JVE-215SC-1212.8-110216MSD
7	JVE-215SC-0809-110216	17	JVE-210SC-0607-110216	27	JVE-207SC-0506-110216	37	JVE-210SC-0910-110216MS
8	JVE-215SC-0910-110216	18	JVE-210SC-0708-110216	28	JVE-207SC-0607-110216	38	JVE-210SC-0910-110216MSD
9	JVE-215SC-1011-110216	19	JVE-210SC-0809-110216	29	JVE-207SC-0708-110216	39	JVE-207SC-1212.6-110216MS
10	JVE-215SC-1112-110216	20	JVE-210SC-0910-110216	30	JVE-207SC-0809-110216	40	JVE-207SC-1212.6-110216MSD

021711-BLK 1
021711-BLK 2
021711-BLK 3

PCBS-SW.wpd

LDC #: 25302A26
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: KT
2nd reviewer: [illegible]

METHOD: X GC __ HPLC

(N) N N/A Were field duplicate pairs identified in this SDG?
(Y) N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		%RPD Limit 50	Qualification Parent only / All Samples
	5	12		
Aroclor 1254	66	19	110	
Aroclor 1260	21	19U	200	

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

FLDUPNew wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 17, 2011
LDC Report Date:	April 26, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ57/SJ58

Sample Identification

JVE-205SC-0203-110217
JVE-205SC-0304-110217
JVE-205SC-0405-110217
JVE-205SC-0506-110217
JVE-205SC-0607-110217
JVE-205SC-0708-110217
JVE-205SC-0809-110217
JVE-205SC-0910-110217
JVE-205SC-1011-110217
JVE-205SC-1112.1-110217
JVE-311SC-0506-110217
JVE-311SC-0607-110217
JVE-311SC-0708-110217
JVE-311SC-089.4-110217
JVE-205SC-1011-110217MS
JVE-205SC-1011-110217MSD

Introduction

This data review covers 16 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for samples in this SDG were reported at 13.8°C upon receipt by the laboratory. Samples received the same day that they were collected, time did not allow for sufficient cooling of the samples, therefore no data were qualified.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

Samples JVE-205SC-0203-110217 and JVE-1205SC-0203-110217 (from SDG SJ63) were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)
	JVE-205SC-0203-110217	JVE-1205SC-0203-110217	
Aroclor-1248	51	20U	200 (≤50)
Aroclor-1254	100	20U	200 (≤50)
Aroclor-1260	94	20U	200 (≤50)

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SJ57/SJ58

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SJ57/SJ58

No Sample Data Qualified in this SDG

LDC #: 25302B3b

VALIDATION COMPLETENESS WORKSHEET

Level III

SDG #: SJ57/SJ58

Laboratory: Analytical Resources, Inc.

Date: 4-21-11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/17/11 Temp = 13.8°C (insufficient time to cool)
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	(1, JVE-1205SC-0203-110217 (SDG: SJ63))
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All Sediment

1	JVE-205SC-0203-110217	11	JVE-311SC-0506-110217	21		31	021811-BLK
2	JVE-205SC-0304-110217	12	JVE-311SC-0607-110217	22		32	
3	JVE-205SC-0405-110217	13	JVE-311SC-0708-110217	23		33	
4	JVE-205SC-0506-110217	14	JVE-311SC-089.4-110217	24		34	
5	JVE-205SC-0607-110217	15	JVE-205SC-1011-110217MS	25		35	
6	JVE-205SC-0708-110217	16	JVE-205SC-1011-110217MSD	26		36	
7	JVE-205SC-0809-110217	17		27		37	
8	JVE-205SC-0910-110217	18		28		38	
9	JVE-205SC-1011-110217	19		29		39	
10	JVE-205SC-1112.1-110217	20		30		40	

LDC #: 25302B3b
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: ☒ GC ___ HPLC

(Y) N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		%RPD Limit 50	Qualification Parent only / All Samples
	1	JVE-12055c-0203-110217		
Aroclor 1248	51	20 U	200	
Aroclor 1254	100	20 U	200	
Aroclor 1260	94	20 U	200	

Compound	Concentration ( )		%RPD Limit ____	Qualification Parent only / All Samples

FLDUPNew wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 17, 2011
LDC Report Date:	April 22, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level IV
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ61/SJ62

Sample Identification

JVE-320SC-0506-110217
JVE-320SC-0607-110217
JVE-320SC-0708-110217
JVE-320SC-0809-110217
JVE-320SC-0910-110217
JVE-320SC-1011-110217
JVE-320SC-1112-110217
JVE-320SC-1212.9-110217
JVE-316SC-0506-110217
JVE-316SC-0607-110217
JVE-316SC-0708-110217
JVE-316SC-0809-110217
JVE-316SC-099.7-110217
JVE-320SC-1112-110217MS
JVE-320SC-1112-110217MSD

Introduction

This data review covers 15 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for samples in this SDG were reported at 9.1°C upon receipt by the laboratory. Samples received the same day that they were collected, time did not allow for sufficient cooling of the samples, therefore no data were qualified.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SJ61/SJ62

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SJ61/SJ62

No Sample Data Qualified in this SDG

LDC #: 25302C3b

SDG #: SJ61/SJ62

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 4-22-11

Page: 1 of 1

Reviewer:

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/17/11 Temp = 9.1°C (insufficient time to cool)
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes IS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	A	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All sediment

1	JVE-320SC-0506-110217	11 ND	JVE-316SC-0708-110217	21		31	021811-Rdk
2 ND	JVE-320SC-0607-110217	12 ND	JVE-316SC-0809-110217	22		32	
3 67	JVE-320SC-0708-110217	13 ND	JVE-316SC-099.7-110217	23		33	
4 ND	JVE-320SC-0809-110217	14	JVE-320SC-1112-110217MS	24		34	
5 ND	JVE-320SC-0910-110217	15	JVE-320SC-1112-110217MSD	25		35	
6 ND	JVE-320SC-1011-110217	16		26		36	
7 ND	JVE-320SC-1112-110217	17		27		37	
8 61	JVE-320SC-1212.9-110217	18		28		38	
9 ND	JVE-316SC-0506-110217	19		29		39	
10 ND	JVE-316SC-0607-110217	20		30		40	

LDC #: 25302c2b
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: VP
2nd Reviewer: L

Method: Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/ECD instrument performance check				
Was the instrument performance found to be acceptable?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?		✓		
Did the initial calibration meet the curve fit acceptance criteria?			✓	
Were the RT windows properly established?	✓			
Were the required standard concentrations analyzed in the initial calibration?	✓			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? ✓ %D or ____%R				
Were Evaluation mix standards analyzed prior to the initial calibration and sample analysis?			✓	
Were endrin and 4,4'-DDT breakdowns ≤ 15% for individual breakdown in the Evaluation mix standards?			✓	
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20% or percent recovieries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Were extract cleanup blanks analyzed with every batch requiring clean-up?	✓			
Was there contamination in the method blanks or clean-up blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				

LDC #: 25302C2b
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH Chlordane (Technical)
C. delta-BHC	K. Endrin	S alpha-Chlordane	AA Aroclor-1254	II.
D gamma-BHC	L Endosulfan II	T gamma-Chlordane	BB Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V Aroclor-1016	DD 2,4'-DDE	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H. Endosulfan I	P Methoxychlor	X Aroclor-1232	FF Hexachlorobenzene	NN.

Notes:_____

LDC #: 25302086
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: M
2nd Reviewer: L

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (0.1 std)	Recalculated CF (0.1 std)	Reported CF (Initial)	Recalculated CF (Intial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/5/11	BB (ZB5, Peak 1)	0.0445	0.0445	0.0415	0.0415	11.7	11.7
			N (ZB5, Peak 1)	0.0443	0.0443	0.0417	0.0417	13.1	13.1
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

INICLCrev.wpd

LDC #: 25302C36
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Percent difference (%D) = 100 * (N - C)/N

Where: N = __ Initial Calibration Factor or __ Nominal Amount (ng)
C = __ Calibration Factor from Continuing Calibration Standard or __ Calculated Amount (ng)

#	Standard ID	Calibration Date/Time	Compound	Average CF/ CCV Conc	Reported CF/Conc CCV	Recalculated CF/Conc CCV	Reported %D	Recalculated %D
1	0219B017-D	2/19/11	BB (ZB5, Peak 1)	250.0	252.7	252.9	1.1	1.1
	17:40		↓	250.0	256.8	256.9	2.7	2.8
	0219B029-D	2/19/11	BB (ZB5 Peak 1)	250.0	255.8	256.1	2.3	2.4
2	2526		↓ (ZB5, Peak 1)	250.0	259.3	259.5	3.7	3.8
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

V:\Validation Worksheets\Pesticides\CONCLC.wpd

LDC #: 25302C3b
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene	A	7.92	5.3	66.9	66.9	0
Tetrachloro-m-xylene						
Decachlorobiphenyl	A	7.92	5.8	72.1	73.2	1.1
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Notes:

LDC #: 25302086
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: WT
2nd Reviewer: L

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 14/15

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gamma-BHC											
4,4'-DDT											
Aroclor 1260	97.2	97.0	ND	79.7	77.0	82.0	82.0	79.4	79.4	3.4	3.4

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

MSDCLCNew.wpd_pest.wpd

LDC #: 25302C26
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Concentration

RPD = | LCS - LCSD | * 2/(LCS + LCSD)

LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 021811-LCS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
gamma-BHC										
4,4'-DDT										
Aroclor 1260	100	n/a	81.4	n/a	81.4	81.4				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

V:\Validation Worksheets\Pesticides\LCSDCLC.wpd

LDC #: 25302C3b
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: VH
2nd reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Example:

Sample I.D. 1 BB : (ch 8B35)

Conc. = $\frac{(1822152)(80)}{(101582243)(0.0417)}$

= 34.4 (Peak 1)

+ 22.6 + 32.4 + 49.4 => ÷ 4 = Ave = 34.7

$\frac{(34.7)(5mL)(5X)}{(45.46g)(.568)}$

= 34 ug/kg ✓

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Note:

C:\Users\rthompson\Desktop\RECALC_pest.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 17, 2011
LDC Report Date:	April 22, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ63

Sample Identification

JVE-309SC-0506-110217
JVE-309SC-0607-110217
JVE-309SC-0708-110217
JVE-309SC-0809-110217
JVE-309SC-0910-110217
JVE-309SC-1011-110217
JVE-309SC-1111.5-110217
JVE-1205SC-0203-110217
JVE-1309SC-0910-110217
JVE-309SC-0506-110217MS
JVE-309SC-0506-110217MSD

Introduction

This data review covers 11 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

Samples JVE-309SC-0910-110217 and JVE-1309SC-0910-110217 and samples JVE-1205SC-0203-110217 and JVE-205SC-0203-110217 (from SDG SJ57) were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)
	JVE-1205SC-0203-110217	JVE-205SC-0203-110217	
Aroclor-1248	20U	51	200 (≤50)
Aroclor-1254	20U	100	200 (≤50)

Compound	Concentration (ug/Kg)		RPD (Limits)
	JVE-1205SC-0203-110217	JVE-205SC-0203-110217	
Aroclor-1260	20U	94	200 (≤50)

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SJ63

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SJ63

No Sample Data Qualified in this SDG

LDC #: 25302D3b

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 4-21-11

SDG #: SJ63

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/17/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates SL	~~A~~	FD = 5+9, 8 + JVE-2055C-0203-110217 (SDG SJ57)
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

All sediment

1	JVE-309SC-0506-110217	11	JVE-309SC-0506-110217MSD	21		31	021811-BLK
2	JVE-309SC-0607-110217	12		22		32	
3	JVE-309SC-0708-110217	13		23		33	
4	JVE-309SC-0809-110217	14		24		34	
5	JVE-309SC-0910-110217	15		25		35	
6	JVE-309SC-1011-110217	16		26		36	
7	JVE-309SC-1111.5-110217	17		27		37	
8	JVE-1205SC-0203-110217	18		28		38	
9	JVE-1309SC-0910-110217	19		29		39	
10	JVE-309SC-0506-110217MS	20		30		40	

LDC #: 25302D3b
SDG #: Eco Cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: X GC ___ HPLC

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		%RPD Limit 50	Qualification Parent only / All Samples
	8	JVE-205SC-0203-110217		
Aroclor 1248	20U	51	200	
1254	20U	100	200	
1260	20U	94	200	

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

FLDUPNew wpd

EMJ014688

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	April 22, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ81/SJ82/SJ83

Sample Identification

JVE-322SC-0809-110218
JVE-322SC-0910-110218
JVE-322SC-1011-110218
JVE-322SC-1112.4-110218
JVE-216SC-1011-110218
JVE-216SC-1112.1-110218
JVE-314SC-0506-110218
JVE-314SC-0607-110218
JVE-314SC-0707.9-110218
JVE-1314SC-0506-110218
JVE-216SC-1011-110218MS
JVE-216SC-1011-110218MSD

Introduction

This data review covers 12 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for samples in this SDG were reported at 6.8°C upon receipt by the laboratory. Samples received the same day that they were collected, time did not allow for sufficient cooling of the samples, therefore no data were qualified.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

Samples JVE-314SC-0506-110218 and JVE-1314SC-0506-110218 were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SJ81/SJ82/SJ83

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SJ81/SJ82/SJ83

No Sample Data Qualified in this SDG

LDC #: 25302E3b

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 4-21-11

SDG #: SJ81/SJ82/SJ83

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer:

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/11 Temp=6.8°C insufficient time to cool
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	ND	FD=7+10
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All Sediment

1	JVE-322SC-0809-110218	11	JVE-216SC-1011-110218MS	21		31	021911-BLK
2	JVE-322SC-0910-110218	12	JVE-216SC-1011-110218MSD	22		32	
3	JVE-322SC-1011-110218	13		23		33	
4	JVE-322SC-1112.4-110218	14		24		34	
5	JVE-216SC-1011-110218	15		25		35	
6	JVE-216SC-1112.1-110218	16		26		36	
7	JVE-314SC-0506-110218	17		27		37	
8	JVE-314SC-0607-110218	18		28		38	
9	JVE-314SC-0707.9-110218	19		29		39	
10	JVE-1314SC-0506-110218	20		30		40	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	April 22, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ90/SJ91

Sample Identification

JVE-01SC-099.7-110218
JVE-1007SC-0910-110218
JVE-07SC-0910-110218
JVE-07SC-1011-110218
JVE-07SC-1112.2-110218
JVE-01SC-099.7-110218MS
JVE-01SC-099.7-110218MSD

Introduction

This data review covers 7 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

Samples JVE-07SC-0910-110218 and JVE-1007SC-0910-110218 were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SJ90/SJ91

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SJ90/SJ91

No Sample Data Qualified in this SDG

LDC #: 25302F3b

SDG #: SJ90/SJ91

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 4-21-11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	ND	FD=3+2
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ALL sediment

1	JVE-01SC-099.7-110218	11		21		31	022111-BLK
2	JVE-1007SC-0910-110218	12		22		32	
3	JVE-07SC-0910-110218	13		23		33	
4	JVE-07SC-1011-110218	14		24		34	
5	JVE-07SC-1112.2-110218	15		25		35	
6	JVE-01SC-099.7-110218MS	16		26		36	
7	JVE-01SC-099.7-110218MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	April 26, 2011
Matrix:	Water
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ92

Sample Identification

JVE-RB-110218
JVE-FB-110218

Introduction

This data review covers 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

Sample JVE-FB-110218 was identified as a field blank. No polychlorinated biphenyl contaminants were found in this blank.

Sample JVE-RB-110218 was identified as a rinsate blank. No polychlorinated biphenyl contaminants were found in this blank .

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SJ92

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SJ92

No Sample Data Qualified in this SDG

LDC #: 25302G3b

VALIDATION COMPLETENESS WORKSHEET

Level III

SDG #: SJ92

Laboratory: Analytical Resources, Inc.

Date: 4-21-11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes IDS	A	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	ND	RB = 1 FB22

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; RB = Rinse Blank

Validated Samples: All H2O

1	JVE-RB-110218	11		21		31	022211-Blk
2	JVE-FB-110218	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 21, 2011
LDC Report Date:	April 22, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ99/SK00/SK01

Sample Identification

JVE-02SC-099.6-110221
JVE-03SC-11-12.2-110221
JVE-04SC-089.2-110221
JVE-02SC-099.6-110221MS
JVE-02SC-099.6-110221MSD

Introduction

This data review covers 5 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SJ99/SK00/SK01

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SJ99/SK00/SK01

No Sample Data Qualified in this SDG

LDC #: 25302H3b

VALIDATION COMPLETENESS WORKSHEET

Level III

SDG #: SJ99/SK00/SK01

Laboratory: Analytical Resources, Inc.

Date: 4-21-11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/21/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All Sediment

1	JVE-02SC-099.6-110221	11		21		31	022211-BLK
2	JVE-03SC-11-12.2-110221	12		22		32	
3	JVE-04SC-089.2-110221	13		23		33	
4	JVE-02SC-099.6-110221MS	14		24		34	
5	JVE-02SC-099.6-110221MSD	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 16, 2011
LDC Report Date:	April 22, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SL49

Sample Identification

JVE-207SC-0607-110216

Introduction

This data review covers one sediment sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SL49

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SL49

No Sample Data Qualified in this SDG

LDC #: 25302I3b

SDG #: SL49

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 4-21-11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/16/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes /IS	A	
VII.	Matrix spike/Matrix spike duplicates	N	Client Specified
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All sediment

1	JVE-207SC-0607-110216	11		21		31	030411-BLK
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 21, 2011
LDC Report Date:	April 22, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SL71/SL72

Sample Identification

JVE-03SC-0708-110221
JVE-03SC-0809-110221
JVE-03SC-0910-110221
JVE-03SC-1011-110221
JVE-04SC-0506-110221
JVE-04SC-0607-110221
JVE-04SC-0708-110221
JVE-1004SC-0607-110221
JVE-04SC-0708-110221MS
JVE-04SC-0708-110221MSD

Introduction

This data review covers 10 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

Samples JVE-04SC-0607-110221 and JVE-1004SC-0607-110221 were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SL71/SL72

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SL71/SL72

No Sample Data Qualified in this SDG

LDC #: 25302J3b

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 4-21-11

SDG #: SL71/SL72

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer:

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 02/21/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20 %
V.	Blanks	A	
VI.	Surrogate spikes /IS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	ND	FD = 6+8
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All Sediment

1	JVE-03SC-0708-110221	11		21		31	030711-BLK
2	JVE-03SC-0809-110221	12		22		32	030811-BLK
3	JVE-03SC-0910-110221	13		23		33	
4	JVE-03SC-1011-110221	14		24		34	
5	JVE-04SC-0506-110221	15		25		35	
ND 6	JVE-04SC-0607-110221	16		26		36	
7	JVE-04SC-0708-110221	17		27		37	
ND 8	JVE-1004SC-0607-110221	18		28		38	
9	JVE-04SC-0708-110221MS	19		29		39	
10	JVE-04SC-0708-110221MSD	20		30		40	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	March 16, 2011
LDC Report Date:	April 22, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SN49

Sample Identification

JVE-206SC-0607-110316
JVE-206SC-0708-110316
JVE-206SC-0809-110316
JVE-206SC-0910-110316
JVE-206SC-1011-110316
JVE-206SC-1112-110316
JVE-206SC-1213-110316
JVE-206SC-1313.6-110316
JVE-1206SC-1011-110316
JVE-206SC-1011-110316MS
JVE-206SC-1011-110316MSD

Introduction

This data review covers 11 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the samples were diluted out, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

Samples JVE-206SC-1011-110316 and JVE-1206SC-1011-110316 were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)
	JVE-206SC-1011-110316	JVE-1206SC-1011-110316	
Aroclor-1254	33	42	24 (≤50)
Aroclor-1260	33	40	19 (≤50)

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SN49

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SN49

No Sample Data Qualified in this SDG

LDC #: 25302K3b

VALIDATION COMPLETENESS WORKSHEET

Level III

SDG #: SN49

Laboratory: Analytical Resources, Inc.

Date: 4-21-11

Page: 1 of 7

Reviewer:

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/16/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes TCS	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	FD25F9
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All Sediment

1	JVE-206SC-0607-110316	11	JVE-206SC-1011-110316MSD	21		31	032411-BLK
2	JVE-206SC-0708-110316	12		22		32	
3	JVE-206SC-0809-110316	13		23		33	
4	JVE-206SC-0910-110316	14		24		34	
5	JVE-206SC-1011-110316	15		25		35	
6	JVE-206SC-1112-110316	16		26		36	
7	JVE-206SC-1213-110316	17		27		37	
8	JVE-206SC-1313.6-110316	18		28		38	
9	JVE-1206SC-1011-110316	19		29		39	
10	JVE-206SC-1011-110316MS	20		30		40	

LDC #: 25302k36
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: MT
2nd Reviewer: [illegible]

METHOD: X GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	10/11	BB	41.2 (50-140)	46.8 (50-140)	( )	5	no qual, dil ≥ 5x
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

MSDNew.wpd

LDC #: 25302K86
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: X GC __ HPLC

~~Y~~ N N/A Were field duplicate pairs identified in this SDG?
Y/ N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		%RPD Limit 50	Qualification Parent only / All Samples
	5	9		
Aroclor 1254	33	42	24	
Aroclor 1260	33	40	19	

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

FLDUPNew wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 21, 2011
LDC Report Date:	April 22, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SM77

Sample Identification

JVE-03SC-0607-110221
JVE-04SC-0405-110221
JVE-04SC-0405-110221DUP

Introduction

This data review covers 3 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SM77

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SM77

No Sample Data Qualified in this SDG

LDC #: 25302L3b

VALIDATION COMPLETENESS WORKSHEET

Level III

SDG #: SM77

Laboratory: Analytical Resources, Inc.

Date: 4-21-11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 02/21/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates / Dup	N/A	Client Specified
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All sediment

1	JVE-03SC-0607-110221	11		21		31	031211-BLK
2	JVE-04SC-0405-110221	12		22		32	
3	JVE-04SC-0405-110221DUP	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 16 through February 21, 2011
LDC Report Date:	April 22, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SP67

Sample Identification

JVE-210SC-0102-110216
JVE-215SC-0102-110216
JVE-309SC-0405-110217
JVE-316SC-0405-110217
JVE-320SC-0405-110217
JVE-314-SC-0405-110218
JVE-216SC-0910-110218
JVE-322SC-0708-110218
JVE-07SC-0809-110218
JVE-01SC-0708-110218
JVE-01SC-0809-110218
JVE-02SC-0708-110221
JVE-02SC-0809-110221
JVE-04SC-0304-110221
JVE-314-SC-0405-110218MS
JVE-314-SC-0405-110218MSD

Introduction

This data review covers 16 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples in this SDG were reported between 6.8°C and 9.1°C upon receipt by the laboratory. Since the samples were received the same day that they were collected, time did not allow for sufficient cooling of the samples, therefore no data were qualified.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits with the following exceptions:

Sample	Internal Standard	Column	Area (Limits)	Compound	Flag	A or P
JVE-216SC-0910-110218	1-Bromo-z-nitrobenzene Hexabromobiphenyl 1-Bromo-z-nitrobenzene Hexabromobiphenyl	ZB5 ZB5 ZB35 ZB35	77954881 (17494402-69977608) 78197857 (16290162-65160648) 153153283 (36745772-146983090) 126187327 (26243986-104975944)	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	P
JVE-07SC-0809-110218	Hexabromobiphenyl Hexabromobiphenyl	ZB5 ZB35	65938196 (16290162-65160648) 120830383 (26243986-104975944)	Aroclor-1260	J (all detects) UJ (all non-detects)	P
JVE-01SC-0708-110218	Hexabromobiphenyl Hexabromobiphenyl	ZB5 ZB35	81745241 (20228585-80914342) 135662433 (31429169-125716676)	Aroclor-1260	J (all detects) UJ (all non-detects)	P
JVE-01SC-0809-110218	Hexabromobiphenyl Hexabromobiphenyl	ZB5 ZB35	82614322 (20228585-80914342) 136466655 (31429169-125716676)	Aroclor-1260	J (all detects) UJ (all non-detects)	P
JVE-02SC-0708-110221	1-Bromo-z-nitrobenzene Hexabromobiphenyl 1-Bromo-z-nitrobenzene Hexabromobiphenyl	ZB5 ZB5 ZB35 ZB35	79319342 (18498599-73994396) 85858876 (20228585-80914342) 158865968 (38580156-154320626) 140698970 (31429169-125716676)	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	P
JVE-02SC-0809-110221	1-Bromo-z-nitrobenzene Hexabromobiphenyl 1-Bromo-z-nitrobenzene Hexabromobiphenyl	ZB5 ZB5 ZB35 ZB35	79992210 (18498599-73994396) 89118095 (20228585-80914342) 161888833 (38580156-154320626) 145076800 (31429169-125716676)	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	P
JVE-04SC-0304-110221	1-Bromo-z-nitrobenzene 1-Bromo-z-nitrobenzene	ZB5 ZB35	77161715 (18498599-73994396) 154982604 (38580156-154320626)	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254	J (all detects) UJ (all non-detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SP67

SDG	Sample	Compound	Flag	A or P	Reason
SP67	JVE-216SC-0910-110218	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	P	Internal standards (area)
SP67	JVE-07SC-0809-110218	Aroclor-1260	J (all detects) UJ (all non-detects)	P	Internal standards (area)
SP67	JVE-01SC-0708-110218	Aroclor-1260	J (all detects) UJ (all non-detects)	P	Internal standards (area)
SP67	JVE-01SC-0809-110218	Aroclor-1260	J (all detects) UJ (all non-detects)	P	Internal standards (area)
SP67	JVE-02SC-0708-110221	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	P	Internal standards (area)
SP67	JVE-02SC-0809-110221	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	P	Internal standards (area)
SP67	JVE-04SC-0304-110221	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254	J (all detects) UJ (all non-detects)	P	Internal standards (area)

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SP67

No Sample Data Qualified in this SDG

LDC #: 25302M3b **VALIDATION COMPLETENESS WORKSHEET** Date: 4-21-11
SDG #: SP67 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/16-18/11, 2/21/11 Temp = 9.1°C 6.8°C (insufficient time for cooling)
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	SW	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All sediment

1	JVE-210SC-0102-110216	11	JVE-01SC-0809-110218	21		31	040411-BLK
2	JVE-215SC-0102-110216	12	JVE-02SC-0708-110221	22		32	
3	JVE-309SC-0405-110217	13	JVE-02SC-0809-110221	23		33	
4	JVE-316SC-0405-110217	14	JVE-04SC-0304-110221	24		34	
5	JVE-320SC-0405-110217	15	JVE-314-SC-0405-110218MS	25		35	
6	JVE-314-SC-0405-110218	16	JVE-314-SC-0405-110218MSD	26		36	
7	JVE-216SC-0910-110218	17		27		37	
8	JVE-322SC-0708-110218	18		28		38	
9	JVE-07SC-0809-110218	19		29		39	
10	JVE-01SC-0708-110218	20		30		40	

VALIDATION FINDINGS WORKSHEET

IS associations

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y Aroclor-1242	GG Chlordane
B beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z Aroclor-1248	HH Chlordane (Technical)
C delta-BHC	K. Endrin	S alpha-Chlordane	AA Aroclor-1254	II.
D gamma-BHC	L Endosulfan II	T gamma-Chlordane	BB Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC 2,4'-DDD	KK.
F Aldrin	N. Endosulfan sulfate	V Aroclor-1016	DD 2,4'-DDE	LL
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H Endosulfan I	P Methoxychlor	X Aroclor-1232	FF Hexachlorobenzene	NN

1-Bromo-2-nitrobenzene

Hexabromobiphenyl

Notes:

C:\Users\rthompson\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content Outlook\365E0K9Q\COMPLST-3S.wpd

LDC #: 25302M3b
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Internal Standards

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: _____

METHOD: GC PCBS EPA 8082

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all internal standard area counts within -50 to +100% of the associated calibration standard?

Y N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

#	Date	Lab ID/~~Reference~~ Column	Internal Standard	Area (Limits)	RT (Limits)	Qualifications
		7 (ZB5)	1	77954881	(17494402-69977608)	~~J dets (A~~ J/UJ/P
		↓	2	78197857	(16290162-65160648)	
		(ZB35)	1	153153283	(36745772-146983090)	(See
		↓	2	126187327	(26243986-104975944)	attached
		9 (ZB5)	2	65938196	(16290162-65160648)	for compound
		(ZB35)	2	120830383	(26243986-104975944)	associations)
		10 (ZB5)	2	81745241	(20228585-80914342)	
		(ZB35)	2	135662433	(31429169-125716676)	
		11 (ZB5)	2	82614322	(20228585-80914342)	
		(ZB35)	2	136466655	(31429169-125716676)	
		12 (ZB5)	1	79319342	(18498599-73994396)	
		↓	2	85858876	(20228585-80914342)	
		(ZB35)	1	158865968	(38580156-154320626)	
		↓	2	140698970	(31429169-125716676)	
		13 (ZB5)	1	79992210	(18498599-73994396)	
		↓	2	89118095	(20228585-80914342)	
		(ZB35)	1	161888833	(38580156-154320626)	
		↓	2	145076800	(31429169-125716676)	
		14 (ZB5)	1	77161715	(18498599-73994396)	
		(ZB35)	1	154982604	(38580156-154320626)	

(BCM) = Bromochloromethane
(DFB) = 1,4-Difluorobenzene
(CBZ) = Chlorobenzene-d5
(PFB) = Pentafluorobenzene
(4DCB) = 1,4-Dichlorobenzene-d4
(2DCB) = 1,2-Dichlorobenzene-d4
(FBZ) = Fluorobenzene

1) 1-Bromo-2-Nitrobenzene
2) Hexabromobiphenyl

INTST.1S

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 16, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ34/SJ35/SJ36

Sample Identification

JVE-215SC-0203-110216	JVE-210SC-1011-110216
JVE-215SC-0304-110216	JVE-210SC-1112-110216
JVE-215SC-0405-110216	JVE-210SC-1212.7-110216
JVE-215SC-0506-110216	JVE-207SC-0203-110216
JVE-215SC-0607-110216	JVE-207SC-0304-110216
JVE-215SC-0708-110216	JVE-207SC-0405-110216
JVE-215SC-0809-110216	JVE-207SC-0506-110216
JVE-215SC-0910-110216	JVE-207SC-0607-110216
JVE-215SC-1011-110216	JVE-207SC-0708-110216
JVE-215SC-1112-110216	JVE-207SC-0809-110216
JVE-215SC-1212.8-110216	JVE-207SC-0910-110216
JVE-1215SC-0607-110216	JVE-207SC-1011-110216
JVE-210SC-0203-110216	JVE-207SC-1112-110216
JVE-210SC-0304-110216	JVE-207SC-1212.6-110216
JVE-210SC-0405-110216	JVE-215SC-0203-110216MS
JVE-210SC-0506-110216	JVE-215SC-0203-110216DUP
JVE-210SC-0607-110216	JVE-210SC-0910-110216MS
JVE-210SC-0708-110216	JVE-210SC-0910-110216DUP
JVE-210SC-0809-110216	JVE-215SC-0203-110216TRP
JVE-210SC-0910-110216	JVE-210SC-0910-110216TRP

Introduction

This data review covers 40 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

Samples JVE-215SC-0607-110216 and JVE-1215SC-0607-110216 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (%)		RPD (Limits)
	JVE-215SC-0607-110216	JVE-1215SC-0607-110216	
Total solids	62.60	62.50	0 (≤50)
Total organic carbon	1.58	2.08	27 (≤50)

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SJ34/SJ35/SJ36

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SJ34/SJ35/SJ36

No Sample Data Qualified in this SDG

LDC #: 25302A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 4/20/11
SDG #: SJ34/SJ35/SJ36 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: MR
2nd Reviewer: V

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/16/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates triplicated	A	Dup, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	(5,12)
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-215SC-0203-110216	11	JVE-215SC-1212.8-110216	21	JVE-210SC-1011-110216	31	JVE-207SC-0910-110216
2	JVE-215SC-0304-110216	12	JVE-1215SC-0607-110216	22	JVE-~~210~~ 205 210SC-1112-110216	32	JVE-207SC-1011-110216
3	JVE-215SC-0405-110216	13	JVE-210SC-0203-110216	23	JVE-210SC-1212.7-110216	33	JVE-207SC-1112-110216
4	JVE-215SC-0506-110216	14	JVE-210SC-0304-110216	24	JVE-207SC-0203-110216	34	JVE-207SC-1212.6-110216
5	JVE-215SC-0607-110216	15	JVE-210SC-0405-110216	25	JVE-207SC-0304-110216	35	JVE-215SC-0203-110216MS
6	JVE-215SC-0708-110216	16	JVE-210SC-0506-110216	26	JVE-207SC-0405-110216	36	JVE-215SC-0203-110216DUP
7	JVE-215SC-0809-110216	17	JVE-210SC-0607-110216	27	JVE-207SC-0506-110216	37	JVE-210SC-0910-110216MS
8	JVE-215SC-0910-110216	18	JVE-210SC-0708-110216	28	JVE-207SC-0607-110216	38	JVE-210SC-0910-110216DUP
9	JVE-215SC-1011-110216	19	JVE-210SC-0809-110216	29	JVE-207SC-0708-110216	39	(X 1) TRP
10	JVE-215SC-1112-110216	20	JVE-~~210~~ 205 210SC-0910-110216	30	JVE-207SC-0809-110216	40	(X 20) TRP

Notes:

25302A6W.wpd

LDC #: 25302A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-34		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC-35		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
36		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
37		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
38		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
39		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
40		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

LDC# 25302A6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

Inorganics, Method See Cover

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (%)		RPD (≤50)	
	5	12		
Total Solids	62.60	62.50	0	
Total Organic Carbon	1.58	2.08	27	

V:\FIELD DUPLICATES\FD_inorganic\25302A6.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 17, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ57/SJ58

Sample Identification

JVE-205SC-0203-110217
JVE-205SC-0304-110217
JVE-205SC-0405-110217
JVE-205SC-0506-110217
JVE-205SC-0607-110217
JVE-205SC-0708-110217
JVE-205SC-0809-110217
JVE-205SC-0910-110217
JVE-205SC-1011-110217
JVE-205SC-1112.1-110217
JVE-311SC-0506-110217
JVE-311SC-0607-110217
JVE-311SC-0708-110217
JVE-311SC-089.4-110217
JVE-205SC-0203-110217MS
JVE-205SC-0203-110217DUP
JVE-205SC-0203-110217TRP

Introduction

This data review covers 17 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

Samples JVE-205SC-0203-110217 and JVE-1205SC-0203-110217 (from SDG SJ63) were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (%)		RPD (Limits)
	JVE-205SC-0203-110217	JVE-1205SC-0203-110217	
Total solids	52.40	52.30	0 (≤50)
Total organic carbon	1.55	1.66	7 (≤50)

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SJ57/SJ58

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SJ57/SJ58

No Sample Data Qualified in this SDG

LDC #: 25302B6 **VALIDATION COMPLETENESS WORKSHEET** Date: 4-20-11
SDG #: SJ57/SJ58 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: CR
2nd Reviewer: ✓

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/17/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates TRP	A	DUP, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	(1, JVE-205SC-0203-110217 (SD6: SJ63))
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Sediment

1	JVE-205SC-0203-110217	11	JVE-311SC-0506-110217	21		31	PB35
2	JVE-205SC-0304-110217	12	JVE-311SC-0607-110217	22		32	
3	JVE-205SC-0405-110217	13	JVE-311SC-0708-110217	23		33	
4	JVE-205SC-0506-110217	14	JVE-311SC-089.4-110217	24		34	
5	JVE-205SC-0607-110217	15	JVE-205SC-0203-110217MS	25		35	
6	JVE-205SC-0708-110217	16	JVE-205SC-0203-110217DUP	26		36	
7	JVE-205SC-0809-110217	17	✓ TRP	27		37	
8	JVE-205SC-0910-110217	18		28		38	
9	JVE-205SC-1011-110217	19		29		39	
10	JVE-205SC-1112.1-110217	20		30		40	

Notes:

LDC #: 25302B6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: 1

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-14		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC-15		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
16,17		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

LDC# 25302B6

VALIDATION FINDINGS WORKSHEET

Field Duplicates

Page: 1 of ___
Reviewer: OR
2nd Reviewer: [illegible]

Inorganics, Method See Cover

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (%)		RPD (≤50)	
	1	JVE-1205SC-0203-110217		
Total Solids	52.40	52.30	0	
Total Organic Carbon	1.55	1.66	7	

V:\FIELD DUPLICATES\FD_inorganic\25302B6.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 17, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level IV
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ61/SJ62

Sample Identification

JVE-320SC-0506-110217
JVE-320SC-0607-110217
JVE-320SC-0708-110217
JVE-320SC-0809-110217
JVE-320SC-0910-110217
JVE-320SC-1011-110217
JVE-320SC-1112-110217
JVE-320SC-1212.9-110217
JVE-316SC-0506-110217
JVE-316SC-0607-110217
JVE-316SC-0708-110217
JVE-316SC-0809-110217
JVE-316SC-099.7-110217
JVE-320SC-0506-110217MS
JVE-320SC-0506-110217DUP
JVE-320SC-0506-110217TRP

Introduction

This data review covers 16 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SJ61/SJ62

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SJ61/SJ62

No Sample Data Qualified in this SDG

LDC #: 25302C6

SDG #: SJ61/SJ62

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 4/20/11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/17/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates	A	D, R, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	A	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-320SC-0506-110217	11	JVE-316SC-0708-110217	21		31	PBS
2	JVE-320SC-0607-110217	12	JVE-316SC-0809-110217	22		32	
3	JVE-320SC-0708-110217	13	JVE-316SC-099.7-110217	23		33	
4	JVE-320SC-0809-110217	14	JVE-320SC-0506-110217MS	24		34	
5	JVE-320SC-0910-110217	15	JVE-320SC-0506-110217DUP	25		35	
6	JVE-320SC-1011-110217	16	↓ TRP	26		36	
7	JVE-320SC-1112-110217	17		27		37	
8	JVE-320SC-1212.9-110217	18		28		38	
9	JVE-316SC-0506-110217	19		29		39	
10	JVE-316SC-0607-110217	20		30		40	

Notes:

LDC #: 25302C6

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: [illegible]

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)	✓			
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25302C6

VALIDATION FINDINGS CHECKLIST

Reviewer:
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
X. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 253026

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-13		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC-14		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
15,16		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

LDC #: 25302C6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd Reviewer: L

Method: Inorganics, Method see cover

The correlation coefficient (r) for the calibration of TOC was recalculated.Calibration date: 2/14/11

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found X 100 / True

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. ~~(ug/l)~~ ppm	Absorbance	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	TOC	s1	8.00	2021830	0.99976	0.99939	Y
		s2	20.00	4950858			
		s3	40.00	10091127			
		s4	100.00	26698352			
Calibration verification		ICV	1000	1006	100.6	100.6	
Calibration verification		CCV		983	98.3	98.3	
Calibration verification				1035	103.5	103.5	

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25302C6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: QR
2nd Reviewer: [illegible]

METHOD: Inorganics, Method See cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{Found}{True} \times 100$$

Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S ~~(units)~~ %	True / D ~~(units)~~ %	Recalculated %R / ~~RPD~~ RSD	Reported %R / ~~RPD~~ RSD	Acceptable (Y/N)
~~LCS~~ CR 14	~~Laboratory control~~ CR sample Matrix spike	TOC	3.4	3.3	103.0	102.9	Y
14 LCS	~~Matrix spike~~ CR sample Laboratory control	↓	(SSR-SR) 0.101	0.1	101	101	Y
15	~~Duplicate~~ sample Triplicate	TS	2.58	2.13 2.46	9.7	9.7	Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

TOTCLC.6

LDC #: 253026

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: [illegible]

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for TOC/TS reported with a positive detect were recalculated and verified using the following equation:

Concentration =

$TOC = \frac{Area(1.45405) + 0.00000371)}{TS}$

$TS = \frac{Dry\,wt - Tare}{Wet\,wt - Tare} \times 100$

Recalculation: 1: $TOC = \frac{24399.246(1.45405) + 0.00000371}{0.6006} = 2.57\%$

$TS = \frac{5.5407 - 1.0908}{6.4959 - 1.0908} \times 100 = 82.3\%$

#	Sample ID	Analyte	Reported Concentration (%)	Calculated Concentration (%)	Acceptable (Y/N)
	1	TS	56.80	56.80	Y
		TOC	2.58	2.57	
	9	TS	82.30	82.30	
		TOC	0.254	0.254	

Note:

RECALC.6

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 17, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ63

Sample Identification

JVE-309SC-0506-110217
JVE-309SC-0607-110217
JVE-309SC-0708-110217
JVE-309SC-0809-110217
JVE-309SC-0910-110217
JVE-309SC-1011-110217
JVE-309SC-1111.5-110217
JVE-1205SC-0203-110217
JVE-1309SC-0910-110217

Introduction

This data review covers 9 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

Samples JVE-1205SC-0203-110217 and JVE-205SC-0203-110217 (from SDG SJ57) and samples JVE-309SC-0910-110217 and JVE-1309SC-0910-110217 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (%)		RPD (Limits)
	JVE-205SC-0203-110217	JVE-1205SC-0203-110217	
Total solids	52.40	52.30	0 (≤50)
Total organic carbon	1.55	1.66	7 (≤50)

Analyte	Concentration (%)		RPD (Limits)
	JVE-309SC-0910-110217	JVE-1309SC-0910-110217	
Total solids	78.70	79.40	1 (≤50)
Total organic carbon	0.185	0.138	29 (≤50)

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SJ63

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SJ63

No Sample Data Qualified in this SDG

LDC #: 25302D6 **VALIDATION COMPLETENESS WORKSHEET** Date: 4/20/11
SDG #: SJ63 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: CR
2nd Reviewer: ✓

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/17/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS (SDG: SJ61)
VI.	Duplicates	A	D & Trip ✓
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	(8, JVE-205SC-0203-110217 (SDG: SJ57)), (5, 9)
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Sediment

1	JVE-309SC-0506-110217	11		21	PBS	31	
2	JVE-309SC-0607-110217	12		22		32	
3	JVE-309SC-0708-110217	13		23		33	
4	JVE-309SC-0809-110217	14		24		34	
5	JVE-309SC-0910-110217	15		25		35	
6	JVE-309SC-1011-110217	16		26		36	
7	JVE-309SC-1111.5-110217	17		27		37	
8	JVE-1205SC-0203-110217	18		28		38	
9	JVE-1309SC-0910-110217	19		29		39	
10		20		30		40	

Notes:

LDC #: 25302D6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-9		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

LDC# 25302D6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer:
2nd Reviewer:

Inorganics, Method See Cover

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (%)		RPD (≤50)	
	JVE-205SC-0203-110217	8		
Total Solids	52.40	52.30	0	
Total Organic Carbon	1.55	1.66	7	

Analyte	Concentration (%)		RPD (≤50)	
	5	9		
Total Solids	78.70	79.40	1	
Total Organic Carbon	0.185	0.138	29	

V:\FIELD DUPLICATES\FD_inorganic\25302D6.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ81/SJ82/SJ83

Sample Identification

JVE-322SC-0809-110218
JVE-322SC-0910-110218
JVE-322SC-1011-110218
JVE-322SC-1112.4-110218
JVE-216SC-1011-110218
JVE-216SC-1112.1-110218
JVE-314SC-0506-110218
JVE-314SC-0607-110218
JVE-314SC-0707.9-110218
JVE-1314SC-0506-110218
JVE-322SC-0809-110218MS
JVE-322SC-0809-110218DUP
JVE-322SC-0809-110218TRP

Introduction

This data review covers 13 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

Samples JVE-314SC-0506-110218 and JVE-1314SC-0506-110218 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (%)		RPD (Limits)
	JVE-314SC-0506-110218	JVE-1314SC-0506-110218	
Total solids	86.10	52.00	49 (≤50)
Total organic carbon	0.527	0.581	10 (≤50)

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SJ81/SJ82/SJ83

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SJ81/SJ82/SJ83

No Sample Data Qualified in this SDG

LDC #: 25302E6 **VALIDATION COMPLETENESS WORKSHEET** Date: 4-20-11
SDG #: SJ81/SJ82/SJ83 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: OR
2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates	A	Dup, Trip
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	(7,10)
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-322SC-0809-110218	11	JVE-322SC-0809-110218MS	21		31	PBS
2	JVE-322SC-0910-110218	12	JVE-322SC-0809-110218DUP	22		32	
3	JVE-322SC-1011-110218	13	Trip	23		33	
4	JVE-322SC-1112.4-110218	14		24		34	
5	JVE-216SC-1011-110218	15		25		35	
6	JVE-216SC-1112.1-110218	16		26		36	
7	JVE-314SC-0506-110218	17		27		37	
8	JVE-314SC-0607-110218	18		28		38	
9	JVE-314SC-~~0707~~ 0707.9-110218	19		29		39	
10	JVE-1314SC-0506-110218	20		30		40	

Notes:

25302E6W.wpd

LDC #: 25302E6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-10		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC-11		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
12,13		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

LDC# 25302E6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: OR
2nd Reviewer: [illegible]

Inorganics, Method See Cover

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (%)		RPD (≤50)	
	7	10		
Total Solids	86.10	52.00	49	
Total Organic Carbon	0.527	0.581	10	

V:\FIELD DUPLICATES\FD_inorganic\25302E6.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ90/SJ91

Sample Identification

JVE-01SC-099.7-110218
JVE-1007SC-0910-110218
JVE-07SC-0910-110218
JVE-07SC-1011-110218
JVE-07SC-1112.2-110218

Introduction

This data review covers 5 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

Samples JVE-1007SC-0910-110218 and JVE-07SC-0910-110218 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (%)		RPD (Limits)
	JVE-1007SC-0910-110218	JVE-07SC-0910-110218	
Total solids	77.10	78.10	1 (≤50)
Total organic carbon	3.98	2.23	56 (≤50)

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SJ90/SJ91

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SJ90/SJ91

No Sample Data Qualified in this SDG

LDC #: 25302F6

SDG #: SJ90/SJ91

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 4-20-11

Page: 1 of

Reviewer:

2nd Reviewer:

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS (SDG: SJ81)
VI.	Duplicates	A	Dup, TBP ↓
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	(2,3)
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-01SC-099.7-110218	11	PBS	21		31	
2	JVE-1007SC-0910-110218	12		22		32	
3	JVE-07SC-0910-110218	13		23		33	
4	JVE-07SC-1011-110218	14		24		34	
5	JVE-07SC-1112.2-110218	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25302F6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-S		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

LDC# 25302F6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: CR
2nd Reviewer: [illegible]

Inorganics, Method See Cover

Y/N NA Were field duplicate pairs identified in this SDG?
Y/N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (%)		RPD (≤50)	
	2	3		
Total Solids	77.10	78.10	1	
Total Organic Carbon	3.98	2.23	56	

V:\FIELD DUPLICATES\FD_inorganic\25302F6.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 21, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SJ99/SK100

Sample Identification

JVE-02SC-099.6-110221
JVE-03SC-11-12.2-110221
JVE-04SC-089.2-110221
JVE-02SC-099.6-110221MS
JVE-02SC-099.6-110221DUP
JVE-02SC-099.6-110221TRP

Introduction

This data review covers 6 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SJ99/SK100

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SJ99/SK100

No Sample Data Qualified in this SDG

LDC #: 25302H6 **VALIDATION COMPLETENESS WORKSHEET** Date: 4-2011
SDG #: SJ99/SK00 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: OR
2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/21/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates	A	DUP, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-02SC-099.6-110221	11		21		31	
2	JVE-03SC-11-12.2-110221	12		22		32	
3	JVE-04SC-089.2-110221	13		23		33	
4	JVE-02SC-099.6-110221MS	14		24		34	
5	JVE-02SC-099.6-110221DUP	15		25		35	
6	TRP	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25302H6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-3		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
QC4		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
5,6		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 16, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SL49

Sample Identification

JVE-207SC-0607-110216

Introduction

This data review covers one sediment sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SL49

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SL49

No Sample Data Qualified in this SDG

LDC #: 2530216

SDG #: SL49

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 4/2011

Page: 1 of 1

Reviewer: CR

2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/16/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS ↑
VI.	Duplicates	A	Dup, Trip (SDG: SL71)
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-207SC-0607-110216	11		21		31	
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25302F6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 21, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SL71/SL72

Sample Identification

JVE-03SC-0708-110221
JVE-03SC-0809-110221
JVE-03SC-0910-110221
JVE-03SC-1011-110221
JVE-04SC-0506-110221
JVE-04SC-0607-110221
JVE-04SC-0708-110221
JVE-1004SC-0607-110221
JVE-03SC-0708-110221MS
JVE-03SC-0708-110221DUP
JVE-03SC-0708-110221TRP

Introduction

This data review covers 11 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

Samples JVE-04SC-0607-110221 and JVE-1004SC-0607-110221 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (%)		RPD (Limits)
	JVE-04SC-0607-110221	JVE-1004SC-0607-110221	
Total solids	84.30	86.10	2 (≤50)
Total organic carbon	0.085	0.110	26 (≤50)

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SL71/SL72

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SL71/SL72

No Sample Data Qualified in this SDG

LDC #: 25302J6

SDG #: SL71/SL72

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 4-20-11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/21/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates	A	D, RJ, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	(6,8)
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Sediment

1	JVE-03SC-0708-110221	11	(#1) TRP	21	PBS	31	
2	JVE-03SC-0809-110221	12		22		32	
3	JVE-03SC-0910-110221	13		23		33	
4	JVE-03SC-1011-110221	14		24		34	
5	JVE-04SC-0506-110221	15		25		35	
6	JVE-04SC-0607-110221	16		26		36	
7	JVE-04SC-0708-110221	17		27		37	
8	JVE-1004SC-0607-110221	18		28		38	
9	JVE-03SC-0708-110221MS	19		29		39	
10	JVE-03SC-0708-110221DUP	20		30		40	

Notes:

LDC #: 25302J6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-8		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC-9		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
10,11		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

LDC# 25302J6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of
Reviewer:
2nd Reviewer:

Inorganics, Method See Cover

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (%)		RPD (≤50)	
	6	8		
Total Solids	84.30	86.10	2	
Total Organic Carbon	0.085	0.110	26	

V:\FIELD DUPLICATES\FD_inorganic\25302J6.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	March 16, 2011
LDC Report Date:	April 26, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SN49

Sample Identification

JVE-206SC-0607-110316
JVE-206SC-0708-110316
JVE-206SC-0809-110316
JVE-206SC-0910-110316
JVE-206SC-1011-110316
JVE-206SC-1112-110316
JVE-206SC-1213-110316
JVE-206SC-1313.6-110316
JVE-1206SC-1011-110316
JVE-206SC-0607-110316MS
JVE-206SC-0607-110316DUP
JVE-206SC-0607-110316TRP

Introduction

This data review covers 12 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

Samples JVE-206SC-1011-110316 and JVE-1206SC-1011-110316 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (%)		RPD (Limits)
	JVE-206SC-1011-110316	JVE-1206SC-1011-110316	
Total solids	68.00	68.20	0 (≤50)
Total organic carbon	1.54	1.69	9 (≤50)

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SN49

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SN49

No Sample Data Qualified in this SDG

LDC #: 25302K6 **VALIDATION COMPLETENESS WORKSHEET** Date: 4-20-11
SDG #: SN49 Level III Page: 1 of
Laboratory: Analytical Resources, Inc. Reviewer:
2nd Reviewer:

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/16/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates	A	DUP, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	(5,9)
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-206SC-0607-110316	11	JVE-206SC-0607-110316DUP	21		31	
2	JVE-206SC-0708-110316	12	J TRP	22		32	
3	JVE-206SC-0809-110316	13		23		33	
4	JVE-206SC-0910-110316	14		24		34	
5	JVE-206SC-1011-110316	15		25		35	
6	JVE-206SC-1112-110316	16		26		36	
7	JVE-206SC-1213-110316	17		27		37	
8	JVE-206SC-1313.6-110316	18		28		38	
9	JVE-1206SC-1011-110316	19		29		39	
10	JVE-206SC-0607-110316MS	20		30		40	

Notes:

LDC #: 25302K6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-9		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC-10		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
11,12		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

LDC# 25302K6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer:
2nd Reviewer:

Inorganics, Method See Cover

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (%)		RPD (≤50)	
	5	9		
Total Solids	68.00	68.20	0	
Total Organic Carbon	1.54	1.69	9	

V:\FIELD DUPLICATES\FD_inorganic\25302K6.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 21, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SM77

Sample Identification

JVE-03SC-0607-110221
JVE-04SC-0405-110221
JVE-03SC-0607-110221MS
JVE-03SC-0607-110221DUP
JVE-03SC-0607-110221TRP

Introduction

This data review covers 5 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SM77

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SM77

No Sample Data Qualified in this SDG

LDC #: 25302L6

SDG #: SM77

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 4/2011

Page: 1 of 1

Reviewer: CR

2nd Reviewer: h

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/21/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates	A	DUP, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-03SC-0607-110221	11		21		31	
2	JVE-04SC-0405-110221	12		22		32	
3	JVE-03SC-0607-110221MS	13		23		33	
4	JVE-03SC-0607-110221DUP	14		24		34	
5	J TRP	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 2530246

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1,2		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC:3		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
4,5		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 16 through February 21, 2011
LDC Report Date:	April 21, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SP67

Sample Identification

JVE-210SC-0102-110216
JVE-215SC-0102-110216
JVE-309SC-0405-110217
JVE-316SC-0405-110217
JVE-320SC-0405-110217
JVE-314-SC-0405-110218
JVE-216SC-0910-110218
JVE-322SC-0708-110218
JVE-07SC-0809-110218
JVE-01SC-0708-110218
JVE-01SC-0809-110218
JVE-02SC-0708-110221
JVE-02SC-0809-110221
JVE-04SC-0304-110221
JVE-210SC-0102-110216MS
JVE-210SC-0102-110216DUP
JVE-210SC-0102-110216TRP

Introduction

This data review covers 17 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SP67

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SP67

No Sample Data Qualified in this SDG

LDC #: 25302M6 **VALIDATION COMPLETENESS WORKSHEET** Date: 4-20-11
SDG #: SP67 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/16-21/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates	A	RR, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-210SC-0102-110216	11	JVE-01SC-0809-110218	21		31	RRS
2	JVE-215SC-0102-110216	12	JVE-02SC-0708-110221	22		32	
3	JVE-309SC-0405-110217	13	JVE-02SC-0809-110221	23		33	
4	JVE-316SC-0405-110217	14	JVE-04SC-0304-110221	24		34	
5	JVE-320SC-0405-110217	15	JVE-210SC-0102-110216MS	25		35	
6	JVE-314-SC-0405-110218	16	JVE-210SC-0102-110216DUP	26		36	
7	JVE-216SC-0910-110218	17	↓ TRP	27		37	
8	JVE-322SC-0708-110218	18		28		38	
9	JVE-07SC-0809-110218	19		29		39	
10	JVE-01SC-0708-110218	20		30		40	

Notes:

LDC #: 25302M6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-14		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC:1S		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
16,17		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

Jorgensen Forge Facility - LDC 25302

SDG: SJ34

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1215SC-0607-110216	11-3396-SJ34N	Total solids	2/16/2011	62.5		Yes	Y				0.01		pct
JVE-215SC-0203-110216	11-3385-SJ34C	Total solids	2/16/2011	53.8		Yes	Y				0.01		pct
JVE-215SC-0304-110216	11-3386-SJ34D	Total solids	2/16/2011	57.7		Yes	Y				0.01		pct
JVE-215SC-0405-110216	11-3387-SJ34E	Total solids	2/16/2011	58		Yes	Y				0.01		pct
JVE-215SC-0506-110216	11-3388-SJ34F	Total solids	2/16/2011	59.1		Yes	Y				0.01		pct
JVE-215SC-0607-110216	11-3389-SJ34G	Total solids	2/16/2011	62.6		Yes	Y				0.01		pct
JVE-215SC-0708-110216	11-3390-SJ34H	Total solids	2/16/2011	65.4		Yes	Y				0.01		pct
JVE-215SC-0809-110216	11-3391-SJ34I	Total solids	2/16/2011	63		Yes	Y				0.01		pct
JVE-215SC-0910-110216	11-3392-SJ34J	Total solids	2/16/2011	61.2		Yes	Y				0.01		pct
JVE-215SC-1011-110216	11-3393-SJ34K	Total solids	2/16/2011	70.1		Yes	Y				0.01		pct
JVE-215SC-1112-110216	11-3394-SJ34L	Total solids	2/16/2011	74.7		Yes	Y				0.01		pct
JVE-215SC-1212.8-11021	11-3395-SJ34M	Total solids	2/16/2011	75.6		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1215SC-0607-110216	11-3396-SJ34N	Total organic carbon	2/17/2011	2.08		Yes	Y				0.020	0.00290	pct
JVE-215SC-0203-110216	11-3385-SJ34C	Total organic carbon	2/17/2011	2.11		Yes	Y				0.020	0.00290	pct
JVE-215SC-0304-110216	11-3386-SJ34D	Total organic carbon	2/17/2011	1.82		Yes	Y				0.020	0.00290	pct
JVE-215SC-0405-110216	11-3387-SJ34E	Total organic carbon	2/17/2011	1.06		Yes	Y				0.020	0.00290	pct
JVE-215SC-0506-110216	11-3388-SJ34F	Total organic carbon	2/17/2011	2.5		Yes	Y				0.020	0.00290	pct
JVE-215SC-0607-110216	11-3389-SJ34G	Total organic carbon	2/17/2011	1.58		Yes	Y				0.020	0.00290	pct
JVE-215SC-0708-110216	11-3390-SJ34H	Total organic carbon	2/17/2011	1.52		Yes	Y				0.020	0.00290	pct
JVE-215SC-0809-110216	11-3391-SJ34I	Total organic carbon	2/17/2011	1.78		Yes	Y				0.020	0.00290	pct
JVE-215SC-0910-110216	11-3392-SJ34J	Total organic carbon	2/17/2011	1.95		Yes	Y				0.020	0.00290	pct
JVE-215SC-1011-110216	11-3393-SJ34K	Total organic carbon	2/17/2011	1.4		Yes	Y				0.020	0.00290	pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-215SC-1112-110216	11-3394-SJ34L	Total organic carbon	2/17/2011	0.649	Yes	Y				0.020	0.00290	pct
JVE-215SC-1212.8-11021	11-3395-SJ34M	Total organic carbon	2/17/2011	0.39	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1215SC-0607-110216	11-3396-SJ34N	Aroclor 1232	2/18/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-1215SC-0607-110216	11-3396-SJ34N	Aroclor 1242	2/18/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-1215SC-0607-110216	11-3396-SJ34N	Aroclor 1016	2/18/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-1215SC-0607-110216	11-3396-SJ34N	Aroclor 1260	2/18/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-1215SC-0607-110216	11-3396-SJ34N	Aroclor 1248	2/18/2011	22	Yes	N	Y			22	6.5	ug/kg
JVE-1215SC-0607-110216	11-3396-SJ34N	Aroclor 1221	2/18/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-1215SC-0607-110216	11-3396-SJ34N	Aroclor 1254	2/18/2011	40	Yes	Y				19	6.5	ug/kg
JVE-215SC-0203-110216	11-3385-SJ34C	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0203-110216	11-3385-SJ34C	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0203-110216	11-3385-SJ34C	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0203-110216	11-3385-SJ34C	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0203-110216	11-3385-SJ34C	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0203-110216	11-3385-SJ34C	Aroclor 1254	2/18/2011	22	Yes	Y				20	6.7	ug/kg
JVE-215SC-0203-110216	11-3385-SJ34C	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-215SC-0304-110216	11-3386-SJ34D	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-215SC-0304-110216	11-3386-SJ34D	Aroclor 1254	2/18/2011	48	Yes	Y				20	6.6	ug/kg
JVE-215SC-0304-110216	11-3386-SJ34D	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0304-110216	11-3386-SJ34D	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0304-110216	11-3386-SJ34D	Aroclor 1248	2/18/2011	32	Yes	N	Y			32	6.6	ug/kg
JVE-215SC-0304-110216	11-3386-SJ34D	Aroclor 1260	2/18/2011	53	Yes	Y				20	6.6	ug/kg
JVE-215SC-0304-110216	11-3386-SJ34D	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.6	ug/kg

SDG: SJ34

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-215SC-0405-110216	11-3387-SJ34E	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0405-110216	11-3387-SJ34E	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0405-110216	11-3387-SJ34E	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-215SC-0405-110216	11-3387-SJ34E	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0405-110216	11-3387-SJ34E	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0405-110216	11-3387-SJ34E	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0405-110216	11-3387-SJ34E	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0506-110216	11-3388-SJ34F	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0506-110216	11-3388-SJ34F	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0506-110216	11-3388-SJ34F	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0506-110216	11-3388-SJ34F	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-215SC-0506-110216	11-3388-SJ34F	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0506-110216	11-3388-SJ34F	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0506-110216	11-3388-SJ34F	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0607-110216	11-3389-SJ34G	Aroclor 1248	2/18/2011	35	Yes	N	Y			35	6.6	ug/kg
JVE-215SC-0607-110216	11-3389-SJ34G	Aroclor 1242	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-0607-110216	11-3389-SJ34G	Aroclor 1260	2/18/2011	21	Yes	Y				19	6.6	ug/kg
JVE-215SC-0607-110216	11-3389-SJ34G	Aroclor 1232	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-0607-110216	11-3389-SJ34G	Aroclor 1221	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-0607-110216	11-3389-SJ34G	Aroclor 1254	2/18/2011	66	Yes	Y				19	6.6	ug/kg
JVE-215SC-0607-110216	11-3389-SJ34G	Aroclor 1016	2/18/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-215SC-0708-110216	11-3390-SJ34H	Aroclor 1242	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-0708-110216	11-3390-SJ34H	Aroclor 1260	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-0708-110216	11-3390-SJ34H	Aroclor 1254	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-0708-110216	11-3390-SJ34H	Aroclor 1221	2/18/2011	19	Yes	N	U			19	6.6	ug/kg

SDG: SJ34

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-215SC-0708-110216	11-3390-SJ34H	Aroclor 1232	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-0708-110216	11-3390-SJ34H	Aroclor 1248	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-0708-110216	11-3390-SJ34H	Aroclor 1016	2/18/2011	19	Yes	N	U			19	5.0	ug/kg
JVE-215SC-0809-110216	11-3391-SJ34I	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0809-110216	11-3391-SJ34I	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0809-110216	11-3391-SJ34I	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0809-110216	11-3391-SJ34I	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0809-110216	11-3391-SJ34I	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0809-110216	11-3391-SJ34I	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-215SC-0809-110216	11-3391-SJ34I	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-0910-110216	11-3392-SJ34J	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0910-110216	11-3392-SJ34J	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0910-110216	11-3392-SJ34J	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-215SC-0910-110216	11-3392-SJ34J	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0910-110216	11-3392-SJ34J	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0910-110216	11-3392-SJ34J	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-215SC-0910-110216	11-3392-SJ34J	Aroclor 1254	2/18/2011	20	Yes	Y				20	6.7	ug/kg
JVE-215SC-1011-110216	11-3393-SJ34K	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-215SC-1011-110216	11-3393-SJ34K	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-1011-110216	11-3393-SJ34K	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-1011-110216	11-3393-SJ34K	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-1011-110216	11-3393-SJ34K	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-1011-110216	11-3393-SJ34K	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-1011-110216	11-3393-SJ34K	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-215SC-1112-110216	11-3394-SJ34L	Aroclor 1260	2/18/2011	19	Yes	N	U			19	6.6	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-215SC-1112-110216	11-3394-SJ34L	Aroclor 1254	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-1112-110216	11-3394-SJ34L	Aroclor 1221	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-1112-110216	11-3394-SJ34L	Aroclor 1232	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-1112-110216	11-3394-SJ34L	Aroclor 1248	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-1112-110216	11-3394-SJ34L	Aroclor 1016	2/18/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-215SC-1112-110216	11-3394-SJ34L	Aroclor 1242	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-1212.8-11021	11-3395-SJ34M	Aroclor 1254	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-1212.8-11021	11-3395-SJ34M	Aroclor 1260	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-1212.8-11021	11-3395-SJ34M	Aroclor 1242	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-1212.8-11021	11-3395-SJ34M	Aroclor 1016	2/18/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-215SC-1212.8-11021	11-3395-SJ34M	Aroclor 1248	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-1212.8-11021	11-3395-SJ34M	Aroclor 1232	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-215SC-1212.8-11021	11-3395-SJ34M	Aroclor 1221	2/18/2011	19	Yes	N	U			19	6.6	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-210SC-0203-110216	11-3399-SJ35C	Total solids	2/16/2011	56.1		Yes	Y				0.01		pct
JVE-210SC-0304-110216	11-3400-SJ35D	Total solids	2/16/2011	52.7		Yes	Y				0.01		pct
JVE-210SC-0405-110216	11-3401-SJ35E	Total solids	2/16/2011	56.3		Yes	Y				0.01		pct
JVE-210SC-0506-110216	11-3402-SJ35F	Total solids	2/16/2011	56.8		Yes	Y				0.01		pct
JVE-210SC-0607-110216	11-3403-SJ35G	Total solids	2/16/2011	64.9		Yes	Y				0.01		pct
JVE-210SC-0708-110216	11-3404-SJ35H	Total solids	2/16/2011	66.2		Yes	Y				0.01		pct
JVE-210SC-0809-110216	11-3405-SJ35I	Total solids	2/16/2011	77.3		Yes	Y				0.01		pct
JVE-210SC-0910-110216	11-3406-SJ35J	Total solids	2/16/2011	82.9		Yes	Y				0.01		pct
JVE-210SC-1011-110216	11-3407-SJ35K	Total solids	2/16/2011	80.7		Yes	Y				0.01		pct
JVE-210SC-1112-110216	11-3408-SJ35L	Total solids	2/16/2011	66.3		Yes	Y				0.01		pct
JVE-210SC-1212.7-11021	11-3409-SJ35M	Total solids	2/16/2011	63.5		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-210SC-0203-110216	11-3399-SJ35C	Total organic carbon	2/18/2011	1.77		Yes	Y				0.020	0.00290	pct
JVE-210SC-0304-110216	11-3400-SJ35D	Total organic carbon	2/18/2011	1.85		Yes	Y				0.020	0.00290	pct
JVE-210SC-0405-110216	11-3401-SJ35E	Total organic carbon	2/18/2011	2.39		Yes	Y				0.020	0.00290	pct
JVE-210SC-0506-110216	11-3402-SJ35F	Total organic carbon	2/18/2011	2.04		Yes	Y				0.020	0.00290	pct
JVE-210SC-0607-110216	11-3403-SJ35G	Total organic carbon	2/18/2011	2.33		Yes	Y				0.020	0.00290	pct
JVE-210SC-0708-110216	11-3404-SJ35H	Total organic carbon	2/18/2011	2.64		Yes	Y				0.020	0.00290	pct
JVE-210SC-0809-110216	11-3405-SJ35I	Total organic carbon	2/18/2011	1.14		Yes	Y				0.020	0.00290	pct
JVE-210SC-0910-110216	11-3406-SJ35J	Total organic carbon	2/18/2011	0.272		Yes	Y				0.020	0.00290	pct
JVE-210SC-1011-110216	11-3407-SJ35K	Total organic carbon	2/18/2011	1.19		Yes	Y				0.020	0.00290	pct
JVE-210SC-1112-110216	11-3408-SJ35L	Total organic carbon	2/18/2011	4.51		Yes	Y				0.020	0.00290	pct
JVE-210SC-1212.7-11021	11-3409-SJ35M	Total organic carbon	2/18/2011	2.7		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-210SC-0203-110216	11-3399-SJ35C	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-0203-110216	11-3399-SJ35C	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-0203-110216	11-3399-SJ35C	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-0203-110216	11-3399-SJ35C	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-0203-110216	11-3399-SJ35C	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-210SC-0203-110216	11-3399-SJ35C	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-0203-110216	11-3399-SJ35C	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-0304-110216	11-3400-SJ35D	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0304-110216	11-3400-SJ35D	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-210SC-0304-110216	11-3400-SJ35D	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0304-110216	11-3400-SJ35D	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0304-110216	11-3400-SJ35D	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0304-110216	11-3400-SJ35D	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0304-110216	11-3400-SJ35D	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0405-110216	11-3401-SJ35E	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0405-110216	11-3401-SJ35E	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0405-110216	11-3401-SJ35E	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-210SC-0405-110216	11-3401-SJ35E	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0405-110216	11-3401-SJ35E	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0405-110216	11-3401-SJ35E	Aroclor 1254	2/18/2011	29	Yes	Y				20	6.7	ug/kg
JVE-210SC-0405-110216	11-3401-SJ35E	Aroclor 1260	2/18/2011	21	Yes	Y				20	6.7	ug/kg
JVE-210SC-0506-110216	11-3402-SJ35F	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0506-110216	11-3402-SJ35F	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-210SC-0506-110216	11-3402-SJ35F	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0506-110216	11-3402-SJ35F	Aroclor 1254	2/18/2011	30	Yes	Y				20	6.7	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-210SC-0506-110216	11-3402-SJ35F	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0506-110216	11-3402-SJ35F	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0506-110216	11-3402-SJ35F	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0607-110216	11-3403-SJ35G	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0607-110216	11-3403-SJ35G	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0607-110216	11-3403-SJ35G	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0607-110216	11-3403-SJ35G	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-210SC-0607-110216	11-3403-SJ35G	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0607-110216	11-3403-SJ35G	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0607-110216	11-3403-SJ35G	Aroclor 1254	2/18/2011	24	Yes	Y				20	6.7	ug/kg
JVE-210SC-0708-110216	11-3404-SJ35H	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-210SC-0708-110216	11-3404-SJ35H	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0708-110216	11-3404-SJ35H	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0708-110216	11-3404-SJ35H	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0708-110216	11-3404-SJ35H	Aroclor 1254	2/18/2011	38	Yes	Y				20	6.7	ug/kg
JVE-210SC-0708-110216	11-3404-SJ35H	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0708-110216	11-3404-SJ35H	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0809-110216	11-3405-SJ35I	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0809-110216	11-3405-SJ35I	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0809-110216	11-3405-SJ35I	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0809-110216	11-3405-SJ35I	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0809-110216	11-3405-SJ35I	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0809-110216	11-3405-SJ35I	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-0809-110216	11-3405-SJ35I	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-210SC-0910-110216	11-3406-SJ35J	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.6	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-210SC-0910-110216	11-3406-SJ35J	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-210SC-0910-110216	11-3406-SJ35J	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-210SC-0910-110216	11-3406-SJ35J	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-210SC-0910-110216	11-3406-SJ35J	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-210SC-0910-110216	11-3406-SJ35J	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-210SC-0910-110216	11-3406-SJ35J	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-210SC-1011-110216	11-3407-SJ35K	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-1011-110216	11-3407-SJ35K	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-1011-110216	11-3407-SJ35K	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-1011-110216	11-3407-SJ35K	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-210SC-1011-110216	11-3407-SJ35K	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-1011-110216	11-3407-SJ35K	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-1011-110216	11-3407-SJ35K	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-1112-110216	11-3408-SJ35L	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-1112-110216	11-3408-SJ35L	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-1112-110216	11-3408-SJ35L	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-1112-110216	11-3408-SJ35L	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-1112-110216	11-3408-SJ35L	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-1112-110216	11-3408-SJ35L	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-210SC-1112-110216	11-3408-SJ35L	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-210SC-1212.7-11021	11-3409-SJ35M	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-1212.7-11021	11-3409-SJ35M	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-1212.7-11021	11-3409-SJ35M	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-210SC-1212.7-11021	11-3409-SJ35M	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-1212.7-11021	11-3409-SJ35M	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg

SDG: SJ35

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-210SC-1212.7-11021	11-3409-SJ35M	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-210SC-1212.7-11021	11-3409-SJ35M	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-207SC-0203-110216	11-3412-SJ36C	Total solids	2/16/2011	54.3	Yes	Y				0.01		pct
JVE-207SC-0304-110216	11-3413-SJ36D	Total solids	2/16/2011	51.8	Yes	Y				0.01		pct
JVE-207SC-0405-110216	11-3414-SJ36E	Total solids	2/16/2011	52.3	Yes	Y				0.01		pct
JVE-207SC-0506-110216	11-3415-SJ36F	Total solids	2/16/2011	52.1	Yes	Y				0.01		pct
JVE-207SC-0607-110216	11-3416-SJ36G	Total solids	2/16/2011	55	Yes	Y				0.01		pct
JVE-207SC-0708-110216	11-3417-SJ36H	Total solids	2/16/2011	60.3	Yes	Y				0.01		pct
JVE-207SC-0809-110216	11-3418-SJ36I	Total solids	2/16/2011	62.6	Yes	Y				0.01		pct
JVE-207SC-0910-110216	11-3419-SJ36J	Total solids	2/16/2011	62.2	Yes	Y				0.01		pct
JVE-207SC-1011-110216	11-3420-SJ36K	Total solids	2/16/2011	70.2	Yes	Y				0.01		pct
JVE-207SC-1112-110216	11-3421-SJ36L	Total solids	2/16/2011	71.5	Yes	Y				0.01		pct
JVE-207SC-1212.6-11021	11-3422-SJ36M	Total solids	2/16/2011	80.8	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-207SC-0203-110216	11-3412-SJ36C	Total organic carbon	2/17/2011	1.73	Yes	Y				0.020	0.00290	pct
JVE-207SC-0304-110216	11-3413-SJ36D	Total organic carbon	2/17/2011	2.06	Yes	Y				0.020	0.00290	pct
JVE-207SC-0405-110216	11-3414-SJ36E	Total organic carbon	2/17/2011	2.77	Yes	Y				0.020	0.00290	pct
JVE-207SC-0506-110216	11-3415-SJ36F	Total organic carbon	2/17/2011	2.53	Yes	Y				0.020	0.00290	pct
JVE-207SC-0607-110216	11-3416-SJ36G	Total organic carbon	2/17/2011	2.38	Yes	Y				0.020	0.00290	pct
JVE-207SC-0708-110216	11-3417-SJ36H	Total organic carbon	2/17/2011	1.88	Yes	Y				0.020	0.00290	pct
JVE-207SC-0809-110216	11-3418-SJ36I	Total organic carbon	2/17/2011	2.23	Yes	Y				0.020	0.00290	pct
JVE-207SC-0910-110216	11-3419-SJ36J	Total organic carbon	2/17/2011	3.46	Yes	Y				0.020	0.00290	pct
JVE-207SC-1011-110216	11-3420-SJ36K	Total organic carbon	2/17/2011	1.06	Yes	Y				0.020	0.00290	pct
JVE-207SC-1112-110216	11-3421-SJ36L	Total organic carbon	2/17/2011	1.47	Yes	Y				0.020	0.00290	pct
JVE-207SC-1212.6-11021	11-3422-SJ36M	Total organic carbon	2/17/2011	0.095	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-207SC-0203-110216	11-3412-SJ36C	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0203-110216	11-3412-SJ36C	Aroclor 1254	2/18/2011	45	Yes	Y				20	6.7	ug/kg
JVE-207SC-0203-110216	11-3412-SJ36C	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-207SC-0203-110216	11-3412-SJ36C	Aroclor 1248	2/18/2011	31	Yes	N	Y			31	6.7	ug/kg
JVE-207SC-0203-110216	11-3412-SJ36C	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0203-110216	11-3412-SJ36C	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0203-110216	11-3412-SJ36C	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0304-110216	11-3413-SJ36D	Aroclor 1254	2/18/2011	67	Yes	Y				20	6.7	ug/kg
JVE-207SC-0304-110216	11-3413-SJ36D	Aroclor 1260	2/18/2011	55	Yes	Y				20	6.7	ug/kg
JVE-207SC-0304-110216	11-3413-SJ36D	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0304-110216	11-3413-SJ36D	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0304-110216	11-3413-SJ36D	Aroclor 1248	2/18/2011	35	Yes	N	Y			35	6.7	ug/kg
JVE-207SC-0304-110216	11-3413-SJ36D	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0304-110216	11-3413-SJ36D	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-207SC-0405-110216	11-3414-SJ36E	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0405-110216	11-3414-SJ36E	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0405-110216	11-3414-SJ36E	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-207SC-0405-110216	11-3414-SJ36E	Aroclor 1260	2/18/2011	52	Yes	Y				20	6.7	ug/kg
JVE-207SC-0405-110216	11-3414-SJ36E	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0405-110216	11-3414-SJ36E	Aroclor 1254	2/18/2011	35	Yes	Y				20	6.7	ug/kg
JVE-207SC-0405-110216	11-3414-SJ36E	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0506-110216	11-3415-SJ36F	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0506-110216	11-3415-SJ36F	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0506-110216	11-3415-SJ36F	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0506-110216	11-3415-SJ36F	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-207SC-0506-110216	11-3415-SJ36F	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0506-110216	11-3415-SJ36F	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0506-110216	11-3415-SJ36F	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-207SC-0607-110216	11-3416-SJ36G	Aroclor 1260	2/18/2011	50	Yes	Y				20	6.7	ug/kg
JVE-207SC-0607-110216	11-3416-SJ36G	Aroclor 1254	2/18/2011	170	Yes	Y				20	6.7	ug/kg
JVE-207SC-0607-110216	11-3416-SJ36G	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0607-110216	11-3416-SJ36G	Aroclor 1248	2/18/2011	150	Yes	Y				20	6.7	ug/kg
JVE-207SC-0607-110216	11-3416-SJ36G	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-207SC-0607-110216	11-3416-SJ36G	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0607-110216	11-3416-SJ36G	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0708-110216	11-3417-SJ36H	Aroclor 1260	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-207SC-0708-110216	11-3417-SJ36H	Aroclor 1254	2/18/2011	46	Yes	Y				19	6.6	ug/kg
JVE-207SC-0708-110216	11-3417-SJ36H	Aroclor 1221	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-207SC-0708-110216	11-3417-SJ36H	Aroclor 1232	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-207SC-0708-110216	11-3417-SJ36H	Aroclor 1248	2/18/2011	31	Yes	N	Y			31	6.6	ug/kg
JVE-207SC-0708-110216	11-3417-SJ36H	Aroclor 1016	2/18/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-207SC-0708-110216	11-3417-SJ36H	Aroclor 1242	2/18/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-207SC-0809-110216	11-3418-SJ36I	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0809-110216	11-3418-SJ36I	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0809-110216	11-3418-SJ36I	Aroclor 1260	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0809-110216	11-3418-SJ36I	Aroclor 1254	2/18/2011	25	Yes	Y				20	6.7	ug/kg
JVE-207SC-0809-110216	11-3418-SJ36I	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0809-110216	11-3418-SJ36I	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-207SC-0809-110216	11-3418-SJ36I	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0910-110216	11-3419-SJ36J	Aroclor 1221	2/18/2011	20	Yes	N	U			20	6.7	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-207SC-0910-110216	11-3419-SJ36J	Aroclor 1232	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0910-110216	11-3419-SJ36J	Aroclor 1242	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0910-110216	11-3419-SJ36J	Aroclor 1016	2/18/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-207SC-0910-110216	11-3419-SJ36J	Aroclor 1260	2/18/2011	32	Yes	Y				20	6.7	ug/kg
JVE-207SC-0910-110216	11-3419-SJ36J	Aroclor 1248	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-0910-110216	11-3419-SJ36J	Aroclor 1254	2/18/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-1011-110216	11-3420-SJ36K	Aroclor 1242	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-207SC-1011-110216	11-3420-SJ36K	Aroclor 1221	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-207SC-1011-110216	11-3420-SJ36K	Aroclor 1254	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-207SC-1011-110216	11-3420-SJ36K	Aroclor 1232	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-207SC-1011-110216	11-3420-SJ36K	Aroclor 1016	2/19/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-207SC-1011-110216	11-3420-SJ36K	Aroclor 1260	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-207SC-1011-110216	11-3420-SJ36K	Aroclor 1248	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-207SC-1112-110216	11-3421-SJ36L	Aroclor 1260	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-207SC-1112-110216	11-3421-SJ36L	Aroclor 1016	2/19/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-207SC-1112-110216	11-3421-SJ36L	Aroclor 1232	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-207SC-1112-110216	11-3421-SJ36L	Aroclor 1254	2/19/2011	26	Yes	Y				19	6.6	ug/kg
JVE-207SC-1112-110216	11-3421-SJ36L	Aroclor 1221	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-207SC-1112-110216	11-3421-SJ36L	Aroclor 1242	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-207SC-1112-110216	11-3421-SJ36L	Aroclor 1248	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-207SC-1212.6-11021	11-3422-SJ36M	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-1212.6-11021	11-3422-SJ36M	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-1212.6-11021	11-3422-SJ36M	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-207SC-1212.6-11021	11-3422-SJ36M	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-1212.6-11021	11-3422-SJ36M	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-207SC-1212.6-11021	11-3422-SJ36M	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-207SC-1212.6-11021	11-3422-SJ36M	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-205SC-0203-110217	11-3504-SJ57C	Total solids	2/17/2011	52.4	Yes	Y				0.01		pct
JVE-205SC-0304-110217	11-3505-SJ57D	Total solids	2/17/2011	53.7	Yes	Y				0.01		pct
JVE-205SC-0405-110217	11-3506-SJ57E	Total solids	2/17/2011	51.9	Yes	Y				0.01		pct
JVE-205SC-0506-110217	11-3507-SJ57F	Total solids	2/17/2011	50.5	Yes	Y				0.01		pct
JVE-205SC-0607-110217	11-3508-SJ57G	Total solids	2/17/2011	53	Yes	Y				0.01		pct
JVE-205SC-0708-110217	11-3509-SJ57H	Total solids	2/17/2011	60.6	Yes	Y				0.01		pct
JVE-205SC-0809-110217	11-3510-SJ57I	Total solids	2/17/2011	61.5	Yes	Y				0.01		pct
JVE-205SC-0910-110217	11-3511-SJ57J	Total solids	2/17/2011	59.2	Yes	Y				0.01		pct
JVE-205SC-1011-110217	11-3512-SJ57K	Total solids	2/17/2011	78.3	Yes	Y				0.01		pct
JVE-205SC-1112.1-11021	11-3513-SJ57L	Total solids	2/17/2011	69	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-205SC-0203-110217	11-3504-SJ57C	Total organic carbon	2/21/2011	1.55	Yes	Y				0.020	0.00290	pct
JVE-205SC-0304-110217	11-3505-SJ57D	Total organic carbon	2/21/2011	1.93	Yes	Y				0.020	0.00290	pct
JVE-205SC-0405-110217	11-3506-SJ57E	Total organic carbon	2/21/2011	1.97	Yes	Y				0.020	0.00290	pct
JVE-205SC-0506-110217	11-3507-SJ57F	Total organic carbon	2/21/2011	2.28	Yes	Y				0.020	0.00290	pct
JVE-205SC-0607-110217	11-3508-SJ57G	Total organic carbon	2/21/2011	2.58	Yes	Y				0.020	0.00290	pct
JVE-205SC-0708-110217	11-3509-SJ57H	Total organic carbon	2/21/2011	1.69	Yes	Y				0.020	0.00290	pct
JVE-205SC-0809-110217	11-3510-SJ57I	Total organic carbon	2/21/2011	2.67	Yes	Y				0.020	0.00290	pct
JVE-205SC-0910-110217	11-3511-SJ57J	Total organic carbon	2/21/2011	0.724	Yes	Y				0.020	0.00290	pct
JVE-205SC-1011-110217	11-3512-SJ57K	Total organic carbon	2/21/2011	0.511	Yes	Y				0.020	0.00290	pct
JVE-205SC-1112.1-11021	11-3513-SJ57L	Total organic carbon	2/21/2011	0.821	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-205SC-0203-110217	11-3504-SJ57C	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-205SC-0203-110217	11-3504-SJ57C	Aroclor 1254	2/19/2011	100		Yes	Y				20	6.7	ug/kg
JVE-205SC-0203-110217	11-3504-SJ57C	Aroclor 1221	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-205SC-0203-110217	11-3504-SJ57C	Aroclor 1232	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-205SC-0203-110217	11-3504-SJ57C	Aroclor 1260	2/19/2011	94		Yes	Y				20	6.7	ug/kg
JVE-205SC-0203-110217	11-3504-SJ57C	Aroclor 1242	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-205SC-0203-110217	11-3504-SJ57C	Aroclor 1248	2/19/2011	51		Yes	Y				20	6.7	ug/kg
JVE-205SC-0304-110217	11-3505-SJ57D	Aroclor 1221	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-205SC-0304-110217	11-3505-SJ57D	Aroclor 1242	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-205SC-0304-110217	11-3505-SJ57D	Aroclor 1254	2/19/2011	130		Yes	Y				20	6.7	ug/kg
JVE-205SC-0304-110217	11-3505-SJ57D	Aroclor 1016	2/19/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-205SC-0304-110217	11-3505-SJ57D	Aroclor 1248	2/19/2011	72		Yes	Y				20	6.7	ug/kg
JVE-205SC-0304-110217	11-3505-SJ57D	Aroclor 1260	2/19/2011	64		Yes	Y				20	6.7	ug/kg
JVE-205SC-0304-110217	11-3505-SJ57D	Aroclor 1232	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-205SC-0405-110217	11-3506-SJ57E	Aroclor 1248	2/19/2011	180		Yes	Y				20	6.7	ug/kg
JVE-205SC-0405-110217	11-3506-SJ57E	Aroclor 1260	2/19/2011	110		Yes	Y				20	6.7	ug/kg
JVE-205SC-0405-110217	11-3506-SJ57E	Aroclor 1232	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-205SC-0405-110217	11-3506-SJ57E	Aroclor 1016	2/19/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-205SC-0405-110217	11-3506-SJ57E	Aroclor 1242	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-205SC-0405-110217	11-3506-SJ57E	Aroclor 1254	2/19/2011	300		Yes	Y				20	6.7	ug/kg
JVE-205SC-0405-110217	11-3506-SJ57E	Aroclor 1221	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-205SC-0506-110217	11-3507-SJ57F	Aroclor 1221	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-205SC-0506-110217	11-3507-SJ57F	Aroclor 1248	2/19/2011	110		Yes	Y				20	6.7	ug/kg
JVE-205SC-0506-110217	11-3507-SJ57F	Aroclor 1260	2/19/2011	54		Yes	Y				20	6.7	ug/kg
JVE-205SC-0506-110217	11-3507-SJ57F	Aroclor 1254	2/19/2011	160		Yes	Y				20	6.7	ug/kg
JVE-205SC-0506-110217	11-3507-SJ57F	Aroclor 1242	2/19/2011	20		Yes	N	U			20	6.7	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-205SC-0506-110217	11-3507-SJ57F	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-0506-110217	11-3507-SJ57F	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-205SC-0607-110217	11-3508-SJ57G	Aroclor 1232	2/21/2011	97	Yes	N	U			97	33	ug/kg
JVE-205SC-0607-110217	11-3508-SJ57G	Aroclor 1248	2/21/2011	97	Yes	N	U			97	33	ug/kg
JVE-205SC-0607-110217	11-3508-SJ57G	Aroclor 1016	2/21/2011	97	Yes	N	U			97	25	ug/kg
JVE-205SC-0607-110217	11-3508-SJ57G	Aroclor 1242	2/21/2011	1300	Yes	Y				97	33	ug/kg
JVE-205SC-0607-110217	11-3508-SJ57G	Aroclor 1260	2/21/2011	360	Yes	Y				97	33	ug/kg
JVE-205SC-0607-110217	11-3508-SJ57G	Aroclor 1254	2/21/2011	1100	Yes	Y				97	33	ug/kg
JVE-205SC-0607-110217	11-3508-SJ57G	Aroclor 1221	2/21/2011	97	Yes	N	U			97	33	ug/kg
JVE-205SC-0708-110217	11-3509-SJ57H	Aroclor 1260	2/19/2011	160	Yes	Y				19	6.6	ug/kg
JVE-205SC-0708-110217	11-3509-SJ57H	Aroclor 1254	2/19/2011	740	Yes	Y				19	6.6	ug/kg
JVE-205SC-0708-110217	11-3509-SJ57H	Aroclor 1221	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-205SC-0708-110217	11-3509-SJ57H	Aroclor 1248	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-205SC-0708-110217	11-3509-SJ57H	Aroclor 1016	2/19/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-205SC-0708-110217	11-3509-SJ57H	Aroclor 1242	2/19/2011	880	Yes	Y				19	6.6	ug/kg
JVE-205SC-0708-110217	11-3509-SJ57H	Aroclor 1232	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-205SC-0809-110217	11-3510-SJ57I	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-0809-110217	11-3510-SJ57I	Aroclor 1260	2/19/2011	150	Yes	Y				20	6.7	ug/kg
JVE-205SC-0809-110217	11-3510-SJ57I	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-205SC-0809-110217	11-3510-SJ57I	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-0809-110217	11-3510-SJ57I	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-0809-110217	11-3510-SJ57I	Aroclor 1242	2/19/2011	580	Yes	Y				20	6.7	ug/kg
JVE-205SC-0809-110217	11-3510-SJ57I	Aroclor 1254	2/19/2011	800	Yes	Y				20	6.7	ug/kg
JVE-205SC-0910-110217	11-3511-SJ57J	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-0910-110217	11-3511-SJ57J	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-205SC-0910-110217	11-3511-SJ57J	Aroclor 1248	2/19/2011	27	Yes	Y				20	6.7	ug/kg
JVE-205SC-0910-110217	11-3511-SJ57J	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-0910-110217	11-3511-SJ57J	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-0910-110217	11-3511-SJ57J	Aroclor 1254	2/19/2011	36	Yes	Y				20	6.7	ug/kg
JVE-205SC-0910-110217	11-3511-SJ57J	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-1011-110217	11-3512-SJ57K	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-1011-110217	11-3512-SJ57K	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-205SC-1011-110217	11-3512-SJ57K	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-1011-110217	11-3512-SJ57K	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-1011-110217	11-3512-SJ57K	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-1011-110217	11-3512-SJ57K	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-1011-110217	11-3512-SJ57K	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-205SC-1112.1-11021	11-3513-SJ57L	Aroclor 1248	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-205SC-1112.1-11021	11-3513-SJ57L	Aroclor 1016	2/19/2011	19	Yes	N	U			19	5.0	ug/kg
JVE-205SC-1112.1-11021	11-3513-SJ57L	Aroclor 1242	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-205SC-1112.1-11021	11-3513-SJ57L	Aroclor 1232	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-205SC-1112.1-11021	11-3513-SJ57L	Aroclor 1221	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-205SC-1112.1-11021	11-3513-SJ57L	Aroclor 1254	2/19/2011	29	Yes	N	Y			29	6.6	ug/kg
JVE-205SC-1112.1-11021	11-3513-SJ57L	Aroclor 1260	2/19/2011	93	Yes	Y				19	6.6	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-311SC-0506-110217	11-3519-SJ58F	Total solids	2/17/2011	77.2	Yes	Y				0.01		pct
JVE-311SC-0607-110217	11-3520-SJ58G	Total solids	2/17/2011	77.7	Yes	Y				0.01		pct
JVE-311SC-0708-110217	11-3521-SJ58H	Total solids	2/17/2011	82.9	Yes	Y				0.01		pct
JVE-311SC-089.4-110217	11-3522-SJ58I	Total solids	2/17/2011	84.7	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-311SC-0506-110217	11-3519-SJ58F	Total organic carbon	2/18/2011	0.734	Yes	Y				0.020	0.00290	pct
JVE-311SC-0607-110217	11-3520-SJ58G	Total organic carbon	2/18/2011	0.304	Yes	Y				0.020	0.00290	pct
JVE-311SC-0708-110217	11-3521-SJ58H	Total organic carbon	2/18/2011	0.113	Yes	Y				0.020	0.00290	pct
JVE-311SC-089.4-110217	11-3522-SJ58I	Total organic carbon	2/18/2011	0.829	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-311SC-0506-110217	11-3519-SJ58F	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-311SC-0506-110217	11-3519-SJ58F	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-311SC-0506-110217	11-3519-SJ58F	Aroclor 1254	2/19/2011	98	Yes	Y				20	6.8	ug/kg
JVE-311SC-0506-110217	11-3519-SJ58F	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-311SC-0506-110217	11-3519-SJ58F	Aroclor 1260	2/19/2011	21	Yes	Y				20	6.8	ug/kg
JVE-311SC-0506-110217	11-3519-SJ58F	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-311SC-0506-110217	11-3519-SJ58F	Aroclor 1248	2/19/2011	30	Yes	N	Y			30	6.8	ug/kg
JVE-311SC-0607-110217	11-3520-SJ58G	Aroclor 1242	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-311SC-0607-110217	11-3520-SJ58G	Aroclor 1260	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-311SC-0607-110217	11-3520-SJ58G	Aroclor 1254	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-311SC-0607-110217	11-3520-SJ58G	Aroclor 1221	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-311SC-0607-110217	11-3520-SJ58G	Aroclor 1232	2/19/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-311SC-0607-110217	11-3520-SJ58G	Aroclor 1248	2/19/2011	19	Yes	N	U			19	6.5	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-311SC-0607-110217	11-3520-SJ58G	Aroclor 1016	2/19/2011	19		Yes	N	U			19	4.9	ug/kg
JVE-311SC-0708-110217	11-3521-SJ58H	Aroclor 1242	2/19/2011	20		Yes	N	U			20	6.8	ug/kg
JVE-311SC-0708-110217	11-3521-SJ58H	Aroclor 1260	2/19/2011	20		Yes	N	U			20	6.8	ug/kg
JVE-311SC-0708-110217	11-3521-SJ58H	Aroclor 1254	2/19/2011	20		Yes	N	U			20	6.8	ug/kg
JVE-311SC-0708-110217	11-3521-SJ58H	Aroclor 1221	2/19/2011	20		Yes	N	U			20	6.8	ug/kg
JVE-311SC-0708-110217	11-3521-SJ58H	Aroclor 1232	2/19/2011	20		Yes	N	U			20	6.8	ug/kg
JVE-311SC-0708-110217	11-3521-SJ58H	Aroclor 1016	2/19/2011	20		Yes	N	U			20	5.1	ug/kg
JVE-311SC-0708-110217	11-3521-SJ58H	Aroclor 1248	2/19/2011	20		Yes	N	U			20	6.8	ug/kg
JVE-311SC-089.4-110217	11-3522-SJ58I	Aroclor 1260	2/19/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-311SC-089.4-110217	11-3522-SJ58I	Aroclor 1242	2/19/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-311SC-089.4-110217	11-3522-SJ58I	Aroclor 1016	2/19/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-311SC-089.4-110217	11-3522-SJ58I	Aroclor 1248	2/19/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-311SC-089.4-110217	11-3522-SJ58I	Aroclor 1232	2/19/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-311SC-089.4-110217	11-3522-SJ58I	Aroclor 1221	2/19/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-311SC-089.4-110217	11-3522-SJ58I	Aroclor 1254	2/19/2011	20		Yes	N	U			20	6.6	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-320SC-0506-110217	11-3548-SJ61A	Total solids	2/17/2011	56.8	Yes	Y				0.01		pct
JVE-320SC-0607-110217	11-3549-SJ61B	Total solids	2/17/2011	55.9	Yes	Y				0.01		pct
JVE-320SC-0708-110217	11-3550-SJ61C	Total solids	2/17/2011	56.1	Yes	Y				0.01		pct
JVE-320SC-0809-110217	11-3551-SJ61D	Total solids	2/17/2011	65.7	Yes	Y				0.01		pct
JVE-320SC-0910-110217	11-3552-SJ61E	Total solids	2/17/2011	67	Yes	Y				0.01		pct
JVE-320SC-1011-110217	11-3553-SJ61F	Total solids	2/17/2011	72.4	Yes	Y				0.01		pct
JVE-320SC-1112-110217	11-3554-SJ61G	Total solids	2/17/2011	83.7	Yes	Y				0.01		pct
JVE-320SC-1212.9-11021	11-3555-SJ61H	Total solids	2/17/2011	67.8	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-320SC-0506-110217	11-3548-SJ61A	Total organic carbon	2/21/2011	2.58	Yes	Y				0.020	0.00290	pct
JVE-320SC-0607-110217	11-3549-SJ61B	Total organic carbon	2/21/2011	2.23	Yes	Y				0.020	0.00290	pct
JVE-320SC-0708-110217	11-3550-SJ61C	Total organic carbon	2/21/2011	2.29	Yes	Y				0.020	0.00290	pct
JVE-320SC-0809-110217	11-3551-SJ61D	Total organic carbon	2/21/2011	1.13	Yes	Y				0.020	0.00290	pct
JVE-320SC-0910-110217	11-3552-SJ61E	Total organic carbon	2/21/2011	1.1	Yes	Y				0.020	0.00290	pct
JVE-320SC-1011-110217	11-3553-SJ61F	Total organic carbon	2/21/2011	0.949	Yes	Y				0.020	0.00290	pct
JVE-320SC-1112-110217	11-3554-SJ61G	Total organic carbon	2/21/2011	0.317	Yes	Y				0.020	0.00290	pct
JVE-320SC-1212.9-11021	11-3555-SJ61H	Total organic carbon	2/21/2011	2.69	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-320SC-0506-110217	11-3548-SJ61A	Aroclor 1260	2/19/2011	34	Yes	Y				19	6.6	ug/kg
JVE-320SC-0506-110217	11-3548-SJ61A	Aroclor 1254	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-320SC-0506-110217	11-3548-SJ61A	Aroclor 1221	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-320SC-0506-110217	11-3548-SJ61A	Aroclor 1232	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-320SC-0506-110217	11-3548-SJ61A	Aroclor 1248	2/19/2011	19	Yes	N	U			19	6.6	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-320SC-0506-110217	11-3548-SJ61A	Aroclor 1016	2/19/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-320SC-0506-110217	11-3548-SJ61A	Aroclor 1242	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-320SC-0607-110217	11-3549-SJ61B	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-320SC-0607-110217	11-3549-SJ61B	Aroclor 1260	2/19/2011	150	Yes	Y				20	6.7	ug/kg
JVE-320SC-0607-110217	11-3549-SJ61B	Aroclor 1254	2/19/2011	39	Yes	N	Y			39	6.7	ug/kg
JVE-320SC-0607-110217	11-3549-SJ61B	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0607-110217	11-3549-SJ61B	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0607-110217	11-3549-SJ61B	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0607-110217	11-3549-SJ61B	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0708-110217	11-3550-SJ61C	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-320SC-0708-110217	11-3550-SJ61C	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-320SC-0708-110217	11-3550-SJ61C	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-320SC-0708-110217	11-3550-SJ61C	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-320SC-0708-110217	11-3550-SJ61C	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-320SC-0708-110217	11-3550-SJ61C	Aroclor 1260	2/19/2011	67	Yes	Y				20	6.6	ug/kg
JVE-320SC-0708-110217	11-3550-SJ61C	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-320SC-0809-110217	11-3551-SJ61D	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0809-110217	11-3551-SJ61D	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0809-110217	11-3551-SJ61D	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0809-110217	11-3551-SJ61D	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0809-110217	11-3551-SJ61D	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-320SC-0809-110217	11-3551-SJ61D	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0809-110217	11-3551-SJ61D	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0910-110217	11-3552-SJ61E	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0910-110217	11-3552-SJ61E	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg

SDG: SJ61

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-320SC-0910-110217	11-3552-SJ61E	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-320SC-0910-110217	11-3552-SJ61E	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0910-110217	11-3552-SJ61E	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0910-110217	11-3552-SJ61E	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-0910-110217	11-3552-SJ61E	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1011-110217	11-3553-SJ61F	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1011-110217	11-3553-SJ61F	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1011-110217	11-3553-SJ61F	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-320SC-1011-110217	11-3553-SJ61F	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1011-110217	11-3553-SJ61F	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1011-110217	11-3553-SJ61F	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1011-110217	11-3553-SJ61F	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1112-110217	11-3554-SJ61G	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1112-110217	11-3554-SJ61G	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1112-110217	11-3554-SJ61G	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-320SC-1112-110217	11-3554-SJ61G	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1112-110217	11-3554-SJ61G	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1112-110217	11-3554-SJ61G	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1112-110217	11-3554-SJ61G	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1212.9-11021	11-3555-SJ61H	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1212.9-11021	11-3555-SJ61H	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1212.9-11021	11-3555-SJ61H	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1212.9-11021	11-3555-SJ61H	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-320SC-1212.9-11021	11-3555-SJ61H	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-320SC-1212.9-11021	11-3555-SJ61H	Aroclor 1260	2/19/2011	64	Yes	Y				20	6.7	ug/kg

SDG: SJ61

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-320SC-1212.9-11021	11-3555-SJ61H	Aroclor 1254	2/19/2011	20		Yes	N	U			20	6.7	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-316SC-0506-110217	11-3529-SJ62F	Total solids	2/17/2011	82.3		Yes	Y				0.01		pct
JVE-316SC-0607-110217	11-3530-SJ62G	Total solids	2/17/2011	77.4		Yes	Y				0.01		pct
JVE-316SC-0708-110217	11-3531-SJ62H	Total solids	2/17/2011	83.5		Yes	Y				0.01		pct
JVE-316SC-0809-110217	11-3532-SJ62I	Total solids	2/17/2011	85.7		Yes	Y				0.01		pct
JVE-316SC-099.7-110217	11-3533-SJ62J	Total solids	2/17/2011	81.5		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-316SC-0506-110217	11-3529-SJ62F	Total organic carbon	2/18/2011	0.254		Yes	Y				0.020	0.00290	pct
JVE-316SC-0607-110217	11-3530-SJ62G	Total organic carbon	2/18/2011	0.323		Yes	Y				0.020	0.00290	pct
JVE-316SC-0708-110217	11-3531-SJ62H	Total organic carbon	2/18/2011	0.111		Yes	Y				0.020	0.00290	pct
JVE-316SC-0809-110217	11-3532-SJ62I	Total organic carbon	2/18/2011	0.151		Yes	Y				0.020	0.00290	pct
JVE-316SC-099.7-110217	11-3533-SJ62J	Total organic carbon	2/18/2011	0.119		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-316SC-0506-110217	11-3529-SJ62F	Aroclor 1254	2/19/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-0506-110217	11-3529-SJ62F	Aroclor 1221	2/19/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-0506-110217	11-3529-SJ62F	Aroclor 1232	2/19/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-0506-110217	11-3529-SJ62F	Aroclor 1248	2/19/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-0506-110217	11-3529-SJ62F	Aroclor 1016	2/19/2011	19		Yes	N	U			19	4.9	ug/kg
JVE-316SC-0506-110217	11-3529-SJ62F	Aroclor 1242	2/19/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-0506-110217	11-3529-SJ62F	Aroclor 1260	2/19/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-0607-110217	11-3530-SJ62G	Aroclor 1248	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0607-110217	11-3530-SJ62G	Aroclor 1232	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0607-110217	11-3530-SJ62G	Aroclor 1254	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0607-110217	11-3530-SJ62G	Aroclor 1016	2/19/2011	20		Yes	N	U			20	5.0	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-316SC-0607-110217	11-3530-SJ62G	Aroclor 1242	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0607-110217	11-3530-SJ62G	Aroclor 1260	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0607-110217	11-3530-SJ62G	Aroclor 1221	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0708-110217	11-3531-SJ62H	Aroclor 1254	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0708-110217	11-3531-SJ62H	Aroclor 1221	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0708-110217	11-3531-SJ62H	Aroclor 1260	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0708-110217	11-3531-SJ62H	Aroclor 1242	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0708-110217	11-3531-SJ62H	Aroclor 1016	2/19/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-316SC-0708-110217	11-3531-SJ62H	Aroclor 1248	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0708-110217	11-3531-SJ62H	Aroclor 1232	2/19/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-316SC-0809-110217	11-3532-SJ62I	Aroclor 1232	2/20/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-316SC-0809-110217	11-3532-SJ62I	Aroclor 1221	2/20/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-316SC-0809-110217	11-3532-SJ62I	Aroclor 1260	2/20/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-316SC-0809-110217	11-3532-SJ62I	Aroclor 1254	2/20/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-316SC-0809-110217	11-3532-SJ62I	Aroclor 1016	2/20/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-316SC-0809-110217	11-3532-SJ62I	Aroclor 1248	2/20/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-316SC-0809-110217	11-3532-SJ62I	Aroclor 1242	2/20/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-316SC-099.7-110217	11-3533-SJ62J	Aroclor 1242	2/20/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-099.7-110217	11-3533-SJ62J	Aroclor 1260	2/20/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-099.7-110217	11-3533-SJ62J	Aroclor 1254	2/20/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-099.7-110217	11-3533-SJ62J	Aroclor 1221	2/20/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-099.7-110217	11-3533-SJ62J	Aroclor 1232	2/20/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-316SC-099.7-110217	11-3533-SJ62J	Aroclor 1016	2/20/2011	19		Yes	N	U			19	4.9	ug/kg
JVE-316SC-099.7-110217	11-3533-SJ62J	Aroclor 1248	2/20/2011	19		Yes	N	U			19	6.6	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1205SC-0203-110217	11-3546-SJ63M	Total solids	2/17/2011	52.3	Yes	Y				0.01		pct
JVE-1309SC-0910-110217	11-3547-SJ63N	Total solids	2/17/2011	79.4	Yes	Y				0.01		pct
JVE-309SC-0506-110217	11-3539-SJ63F	Total solids	2/17/2011	81.1	Yes	Y				0.01		pct
JVE-309SC-0607-110217	11-3540-SJ63G	Total solids	2/17/2011	80.2	Yes	Y				0.01		pct
JVE-309SC-0708-110217	11-3541-SJ63H	Total solids	2/17/2011	75.2	Yes	Y				0.01		pct
JVE-309SC-0809-110217	11-3542-SJ63I	Total solids	2/17/2011	73.7	Yes	Y				0.01		pct
JVE-309SC-0910-110217	11-3543-SJ63J	Total solids	2/17/2011	78.7	Yes	Y				0.01		pct
JVE-309SC-1011-110217	11-3544-SJ63K	Total solids	2/17/2011	76.2	Yes	Y				0.01		pct
JVE-309SC-1111.5-11021	11-3545-SJ63L	Total solids	2/17/2011	60.2	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1205SC-0203-110217	11-3546-SJ63M	Total organic carbon	2/21/2011	1.66	Yes	Y				0.020	0.00290	pct
JVE-1309SC-0910-110217	11-3547-SJ63N	Total organic carbon	2/21/2011	0.138	Yes	Y				0.020	0.00290	pct
JVE-309SC-0506-110217	11-3539-SJ63F	Total organic carbon	2/21/2011	1.03	Yes	Y				0.020	0.00290	pct
JVE-309SC-0607-110217	11-3540-SJ63G	Total organic carbon	2/21/2011	0.131	Yes	Y				0.020	0.00290	pct
JVE-309SC-0708-110217	11-3541-SJ63H	Total organic carbon	2/21/2011	0.617	Yes	Y				0.020	0.00290	pct
JVE-309SC-0809-110217	11-3542-SJ63I	Total organic carbon	2/21/2011	0.767	Yes	Y				0.020	0.00290	pct
JVE-309SC-0910-110217	11-3543-SJ63J	Total organic carbon	2/21/2011	0.185	Yes	Y				0.020	0.00290	pct
JVE-309SC-1011-110217	11-3544-SJ63K	Total organic carbon	2/21/2011	0.376	Yes	Y				0.020	0.00290	pct
JVE-309SC-1111.5-11021	11-3545-SJ63L	Total organic carbon	2/21/2011	2.55	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1205SC-0203-110217	11-3546-SJ63M	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-1205SC-0203-110217	11-3546-SJ63M	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-1205SC-0203-110217	11-3546-SJ63M	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1205SC-0203-110217	11-3546-SJ63M	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-1205SC-0203-110217	11-3546-SJ63M	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-1205SC-0203-110217	11-3546-SJ63M	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-1205SC-0203-110217	11-3546-SJ63M	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-1309SC-0910-110217	11-3547-SJ63N	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-1309SC-0910-110217	11-3547-SJ63N	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-1309SC-0910-110217	11-3547-SJ63N	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-1309SC-0910-110217	11-3547-SJ63N	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-1309SC-0910-110217	11-3547-SJ63N	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-1309SC-0910-110217	11-3547-SJ63N	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-1309SC-0910-110217	11-3547-SJ63N	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0506-110217	11-3539-SJ63F	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0506-110217	11-3539-SJ63F	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0506-110217	11-3539-SJ63F	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0506-110217	11-3539-SJ63F	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0506-110217	11-3539-SJ63F	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0506-110217	11-3539-SJ63F	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-309SC-0506-110217	11-3539-SJ63F	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0607-110217	11-3540-SJ63G	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-309SC-0607-110217	11-3540-SJ63G	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-309SC-0607-110217	11-3540-SJ63G	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-309SC-0607-110217	11-3540-SJ63G	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-309SC-0607-110217	11-3540-SJ63G	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-309SC-0607-110217	11-3540-SJ63G	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-309SC-0607-110217	11-3540-SJ63G	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.6	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-309SC-0708-110217	11-3541-SJ63H	Aroclor 1248	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-309SC-0708-110217	11-3541-SJ63H	Aroclor 1016	2/19/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-309SC-0708-110217	11-3541-SJ63H	Aroclor 1242	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-309SC-0708-110217	11-3541-SJ63H	Aroclor 1221	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-309SC-0708-110217	11-3541-SJ63H	Aroclor 1232	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-309SC-0708-110217	11-3541-SJ63H	Aroclor 1260	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-309SC-0708-110217	11-3541-SJ63H	Aroclor 1254	2/19/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-309SC-0809-110217	11-3542-SJ63I	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-309SC-0809-110217	11-3542-SJ63I	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-309SC-0809-110217	11-3542-SJ63I	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-309SC-0809-110217	11-3542-SJ63I	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-309SC-0809-110217	11-3542-SJ63I	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-309SC-0809-110217	11-3542-SJ63I	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-309SC-0809-110217	11-3542-SJ63I	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-309SC-0910-110217	11-3543-SJ63J	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0910-110217	11-3543-SJ63J	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0910-110217	11-3543-SJ63J	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0910-110217	11-3543-SJ63J	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-309SC-0910-110217	11-3543-SJ63J	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0910-110217	11-3543-SJ63J	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-0910-110217	11-3543-SJ63J	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1011-110217	11-3544-SJ63K	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1011-110217	11-3544-SJ63K	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1011-110217	11-3544-SJ63K	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1011-110217	11-3544-SJ63K	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-309SC-1011-110217	11-3544-SJ63K	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-309SC-1011-110217	11-3544-SJ63K	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1011-110217	11-3544-SJ63K	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1111.5-11021	11-3545-SJ63L	Aroclor 1254	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1111.5-11021	11-3545-SJ63L	Aroclor 1232	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1111.5-11021	11-3545-SJ63L	Aroclor 1248	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1111.5-11021	11-3545-SJ63L	Aroclor 1016	2/19/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-309SC-1111.5-11021	11-3545-SJ63L	Aroclor 1242	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1111.5-11021	11-3545-SJ63L	Aroclor 1221	2/19/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-309SC-1111.5-11021	11-3545-SJ63L	Aroclor 1260	2/19/2011	20	Yes	N	U			20	6.7	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-322SC-0809-110218	11-3624-SJ81A	Total solids	2/18/2011	72.1		Yes	Y				0.01		pct
JVE-322SC-0910-110218	11-3625-SJ81B	Total solids	2/18/2011	80.1		Yes	Y				0.01		pct
JVE-322SC-1011-110218	11-3626-SJ81C	Total solids	2/18/2011	86.4		Yes	Y				0.01		pct
JVE-322SC-1112.4-11021	11-3627-SJ81D	Total solids	2/18/2011	77.1		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-322SC-0809-110218	11-3624-SJ81A	Total organic carbon	2/22/2011	1.86		Yes	Y				0.020	0.00290	pct
JVE-322SC-0910-110218	11-3625-SJ81B	Total organic carbon	2/22/2011	1.94		Yes	Y				0.020	0.00290	pct
JVE-322SC-1011-110218	11-3626-SJ81C	Total organic carbon	2/22/2011	0.932		Yes	Y				0.020	0.00290	pct
JVE-322SC-1112.4-11021	11-3627-SJ81D	Total organic carbon	2/22/2011	1.88		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-322SC-0809-110218	11-3624-SJ81A	Aroclor 1254	2/21/2011	21		Yes	Y				19	6.6	ug/kg
JVE-322SC-0809-110218	11-3624-SJ81A	Aroclor 1221	2/21/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-322SC-0809-110218	11-3624-SJ81A	Aroclor 1232	2/21/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-322SC-0809-110218	11-3624-SJ81A	Aroclor 1248	2/21/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-322SC-0809-110218	11-3624-SJ81A	Aroclor 1016	2/21/2011	19		Yes	N	U			19	4.9	ug/kg
JVE-322SC-0809-110218	11-3624-SJ81A	Aroclor 1242	2/21/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-322SC-0809-110218	11-3624-SJ81A	Aroclor 1260	2/21/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-322SC-0910-110218	11-3625-SJ81B	Aroclor 1232	2/21/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-322SC-0910-110218	11-3625-SJ81B	Aroclor 1260	2/21/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-322SC-0910-110218	11-3625-SJ81B	Aroclor 1221	2/21/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-322SC-0910-110218	11-3625-SJ81B	Aroclor 1242	2/21/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-322SC-0910-110218	11-3625-SJ81B	Aroclor 1016	2/21/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-322SC-0910-110218	11-3625-SJ81B	Aroclor 1248	2/21/2011	20		Yes	N	U			20	6.6	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-322SC-0910-110218	11-3625-SJ81B	Aroclor 1254	2/21/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-322SC-1011-110218	11-3626-SJ81C	Aroclor 1260	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-322SC-1011-110218	11-3626-SJ81C	Aroclor 1242	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-322SC-1011-110218	11-3626-SJ81C	Aroclor 1016	2/21/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-322SC-1011-110218	11-3626-SJ81C	Aroclor 1254	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-322SC-1011-110218	11-3626-SJ81C	Aroclor 1221	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-322SC-1011-110218	11-3626-SJ81C	Aroclor 1232	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-322SC-1011-110218	11-3626-SJ81C	Aroclor 1248	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-322SC-1112.4-11021	11-3627-SJ81D	Aroclor 1232	2/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-322SC-1112.4-11021	11-3627-SJ81D	Aroclor 1260	2/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-322SC-1112.4-11021	11-3627-SJ81D	Aroclor 1254	2/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-322SC-1112.4-11021	11-3627-SJ81D	Aroclor 1221	2/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-322SC-1112.4-11021	11-3627-SJ81D	Aroclor 1248	2/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-322SC-1112.4-11021	11-3627-SJ81D	Aroclor 1016	2/21/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-322SC-1112.4-11021	11-3627-SJ81D	Aroclor 1242	2/21/2011	20	Yes	N	U			20	6.7	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-216SC-1011-110218	11-3637-SJ82A	Total solids	2/18/2011	86.2	Yes	Y				0.01		pct
JVE-216SC-1112.1-11021	11-3638-SJ82B	Total solids	2/18/2011	80.2	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-216SC-1011-110218	11-3637-SJ82A	Total organic carbon	2/21/2011	0.24	Yes	Y				0.020	0.00290	pct
JVE-216SC-1112.1-11021	11-3638-SJ82B	Total organic carbon	2/21/2011	0.327	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-216SC-1011-110218	11-3637-SJ82A	Aroclor 1242	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-216SC-1011-110218	11-3637-SJ82A	Aroclor 1254	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-216SC-1011-110218	11-3637-SJ82A	Aroclor 1221	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-216SC-1011-110218	11-3637-SJ82A	Aroclor 1016	2/21/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-216SC-1011-110218	11-3637-SJ82A	Aroclor 1260	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-216SC-1011-110218	11-3637-SJ82A	Aroclor 1232	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-216SC-1011-110218	11-3637-SJ82A	Aroclor 1248	2/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-216SC-1112.1-11021	11-3638-SJ82B	Aroclor 1232	2/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-216SC-1112.1-11021	11-3638-SJ82B	Aroclor 1254	2/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-216SC-1112.1-11021	11-3638-SJ82B	Aroclor 1221	2/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-216SC-1112.1-11021	11-3638-SJ82B	Aroclor 1248	2/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-216SC-1112.1-11021	11-3638-SJ82B	Aroclor 1016	2/21/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-216SC-1112.1-11021	11-3638-SJ82B	Aroclor 1242	2/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-216SC-1112.1-11021	11-3638-SJ82B	Aroclor 1260	2/21/2011	20	Yes	N	U			20	6.7	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1314SC-0506-110218	11-3657-SJ83I	Total solids	2/18/2011	85		Yes	Y				0.01		pct
JVE-314SC-0506-110218	11-3654-SJ83F	Total solids	2/18/2011	86.1		Yes	Y				0.01		pct
JVE-314SC-0607-110218	11-3655-SJ83G	Total solids	2/18/2011	84.7		Yes	Y				0.01		pct
JVE-314SC-077.9-110218	11-3656-SJ83H	Total solids	2/18/2011	80.2		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1314SC-0506-110218	11-3657-SJ83I	Total organic carbon	2/21/2011	0.581		Yes	Y				0.020	0.00290	pct
JVE-314SC-0506-110218	11-3654-SJ83F	Total organic carbon	2/21/2011	0.527		Yes	Y				0.020	0.00290	pct
JVE-314SC-0607-110218	11-3655-SJ83G	Total organic carbon	2/21/2011	0.916		Yes	Y				0.020	0.00290	pct
JVE-314SC-077.9-110218	11-3656-SJ83H	Total organic carbon	2/21/2011	0.726		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1314SC-0506-110218	11-3657-SJ83I	Aroclor 1232	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-1314SC-0506-110218	11-3657-SJ83I	Aroclor 1254	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-1314SC-0506-110218	11-3657-SJ83I	Aroclor 1260	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-1314SC-0506-110218	11-3657-SJ83I	Aroclor 1242	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-1314SC-0506-110218	11-3657-SJ83I	Aroclor 1221	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-1314SC-0506-110218	11-3657-SJ83I	Aroclor 1248	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-1314SC-0506-110218	11-3657-SJ83I	Aroclor 1016	2/22/2011	19		Yes	N	U			19	4.9	ug/kg
JVE-314SC-0506-110218	11-3654-SJ83F	Aroclor 1232	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-314SC-0506-110218	11-3654-SJ83F	Aroclor 1242	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-314SC-0506-110218	11-3654-SJ83F	Aroclor 1254	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-314SC-0506-110218	11-3654-SJ83F	Aroclor 1248	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-314SC-0506-110218	11-3654-SJ83F	Aroclor 1016	2/22/2011	19		Yes	N	U			19	5.0	ug/kg
JVE-314SC-0506-110218	11-3654-SJ83F	Aroclor 1260	2/22/2011	19		Yes	N	U			19	6.6	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-314SC-0506-110218	11-3654-SJ83F	Aroclor 1221	2/22/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-314SC-0607-110218	11-3655-SJ83G	Aroclor 1232	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-314SC-0607-110218	11-3655-SJ83G	Aroclor 1242	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-314SC-0607-110218	11-3655-SJ83G	Aroclor 1248	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-314SC-0607-110218	11-3655-SJ83G	Aroclor 1221	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-314SC-0607-110218	11-3655-SJ83G	Aroclor 1254	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-314SC-0607-110218	11-3655-SJ83G	Aroclor 1260	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-314SC-0607-110218	11-3655-SJ83G	Aroclor 1016	2/22/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-314SC-077.9-110218	11-3656-SJ83H	Aroclor 1248	2/22/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-314SC-077.9-110218	11-3656-SJ83H	Aroclor 1232	2/22/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-314SC-077.9-110218	11-3656-SJ83H	Aroclor 1221	2/22/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-314SC-077.9-110218	11-3656-SJ83H	Aroclor 1260	2/22/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-314SC-077.9-110218	11-3656-SJ83H	Aroclor 1254	2/22/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-314SC-077.9-110218	11-3656-SJ83H	Aroclor 1016	2/22/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-314SC-077.9-110218	11-3656-SJ83H	Aroclor 1242	2/22/2011	19	Yes	N	U			19	6.6	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-099.7-110218	11-3662-SJ90A	Total solids	2/18/2011	81.8	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-099.7-110218	11-3662-SJ90A	Total organic carbon	2/21/2011	0.068	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-099.7-110218	11-3662-SJ90A	Aroclor 1242	2/22/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-01SC-099.7-110218	11-3662-SJ90A	Aroclor 1248	2/22/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-01SC-099.7-110218	11-3662-SJ90A	Aroclor 1260	2/22/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-01SC-099.7-110218	11-3662-SJ90A	Aroclor 1016	2/22/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-01SC-099.7-110218	11-3662-SJ90A	Aroclor 1232	2/22/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-01SC-099.7-110218	11-3662-SJ90A	Aroclor 1221	2/22/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-01SC-099.7-110218	11-3662-SJ90A	Aroclor 1254	2/22/2011	19	Yes	N	U			19	6.5	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0910-110218	11-3688-SJ91B	Total solids	2/18/2011	78.1		Yes	Y				0.01		pct
JVE-07SC-1011-110218	11-3689-SJ91C	Total solids	2/18/2011	76.7		Yes	Y				0.01		pct
JVE-07SC-1112.2-110218	11-3690-SJ91D	Total solids	2/18/2011	76		Yes	Y				0.01		pct
JVE-1007SC-0910-110218	11-3687-SJ91A	Total solids	2/18/2011	77.1		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0910-110218	11-3688-SJ91B	Total organic carbon	2/22/2011	2.23		Yes	Y				0.020	0.00290	pct
JVE-07SC-1011-110218	11-3689-SJ91C	Total organic carbon	2/22/2011	1.39		Yes	Y				0.020	0.00290	pct
JVE-07SC-1112.2-110218	11-3690-SJ91D	Total organic carbon	2/22/2011	4.39		Yes	Y				0.020	0.00290	pct
JVE-1007SC-0910-110218	11-3687-SJ91A	Total organic carbon	2/22/2011	3.98		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0910-110218	11-3688-SJ91B	Aroclor 1242	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-07SC-0910-110218	11-3688-SJ91B	Aroclor 1232	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-07SC-0910-110218	11-3688-SJ91B	Aroclor 1254	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-07SC-0910-110218	11-3688-SJ91B	Aroclor 1260	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-07SC-0910-110218	11-3688-SJ91B	Aroclor 1248	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-07SC-0910-110218	11-3688-SJ91B	Aroclor 1016	2/22/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-07SC-0910-110218	11-3688-SJ91B	Aroclor 1221	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-07SC-1011-110218	11-3689-SJ91C	Aroclor 1242	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-07SC-1011-110218	11-3689-SJ91C	Aroclor 1016	2/22/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-07SC-1011-110218	11-3689-SJ91C	Aroclor 1248	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-07SC-1011-110218	11-3689-SJ91C	Aroclor 1260	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-07SC-1011-110218	11-3689-SJ91C	Aroclor 1254	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-07SC-1011-110218	11-3689-SJ91C	Aroclor 1221	2/22/2011	20		Yes	N	U			20	6.7	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-1011-110218	11-3689-SJ91C	Aroclor 1232	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-07SC-1112.2-110218	11-3690-SJ91D	Aroclor 1232	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-07SC-1112.2-110218	11-3690-SJ91D	Aroclor 1242	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-07SC-1112.2-110218	11-3690-SJ91D	Aroclor 1248	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-07SC-1112.2-110218	11-3690-SJ91D	Aroclor 1221	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-07SC-1112.2-110218	11-3690-SJ91D	Aroclor 1254	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-07SC-1112.2-110218	11-3690-SJ91D	Aroclor 1260	2/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-07SC-1112.2-110218	11-3690-SJ91D	Aroclor 1016	2/22/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-1007SC-0910-110218	11-3687-SJ91A	Aroclor 1221	2/22/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-1007SC-0910-110218	11-3687-SJ91A	Aroclor 1254	2/22/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-1007SC-0910-110218	11-3687-SJ91A	Aroclor 1232	2/22/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-1007SC-0910-110218	11-3687-SJ91A	Aroclor 1248	2/22/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-1007SC-0910-110218	11-3687-SJ91A	Aroclor 1016	2/22/2011	19	Yes	N	U			19	4.9	ug/kg
JVE-1007SC-0910-110218	11-3687-SJ91A	Aroclor 1242	2/22/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-1007SC-0910-110218	11-3687-SJ91A	Aroclor 1260	2/22/2011	19	Yes	N	U			19	6.5	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-FB-110218	11-3701-SJ92B	Aroclor 1242	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-FB-110218	11-3701-SJ92B	Aroclor 1254	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-FB-110218	11-3701-SJ92B	Aroclor 1221	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-FB-110218	11-3701-SJ92B	Aroclor 1232	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-FB-110218	11-3701-SJ92B	Aroclor 1248	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-FB-110218	11-3701-SJ92B	Aroclor 1016	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-FB-110218	11-3701-SJ92B	Aroclor 1260	2/23/2011	1	Yes	N	U			1.0	0.079	ug/L
JVE-RB-110218	11-3700-SJ92A	Aroclor 1232	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-RB-110218	11-3700-SJ92A	Aroclor 1248	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-RB-110218	11-3700-SJ92A	Aroclor 1016	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-RB-110218	11-3700-SJ92A	Aroclor 1221	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-RB-110218	11-3700-SJ92A	Aroclor 1242	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L
JVE-RB-110218	11-3700-SJ92A	Aroclor 1260	2/23/2011	1	Yes	N	U			1.0	0.079	ug/L
JVE-RB-110218	11-3700-SJ92A	Aroclor 1254	2/23/2011	1	Yes	N	U			1.0	0.12	ug/L

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-02SC-099.6-110221	11-3728-SJ99A	Total solids	2/21/2011	84.5		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-02SC-099.6-110221	11-3728-SJ99A	Total organic carbon	2/22/2011	0.072		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-02SC-099.6-110221	11-3728-SJ99A	Aroclor 1260	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-02SC-099.6-110221	11-3728-SJ99A	Aroclor 1254	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-02SC-099.6-110221	11-3728-SJ99A	Aroclor 1232	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-02SC-099.6-110221	11-3728-SJ99A	Aroclor 1221	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-02SC-099.6-110221	11-3728-SJ99A	Aroclor 1016	2/22/2011	19		Yes	N	U			19	4.9	ug/kg
JVE-02SC-099.6-110221	11-3728-SJ99A	Aroclor 1242	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-02SC-099.6-110221	11-3728-SJ99A	Aroclor 1248	2/22/2011	19		Yes	N	U			19	6.6	ug/kg

SDG: SK00

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-1112.2-110221	11-3739-SK00A	Total solids	2/21/2011	76.4		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-1112.2-110221	11-3739-SK00A	Total organic carbon	2/22/2011	1.2		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-1112.2-110221	11-3739-SK00A	Aroclor 1221	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-03SC-1112.2-110221	11-3739-SK00A	Aroclor 1260	2/22/2011	32		Yes	Y				20	6.7	ug/kg
JVE-03SC-1112.2-110221	11-3739-SK00A	Aroclor 1248	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-03SC-1112.2-110221	11-3739-SK00A	Aroclor 1242	2/22/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-03SC-1112.2-110221	11-3739-SK00A	Aroclor 1016	2/22/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-03SC-1112.2-110221	11-3739-SK00A	Aroclor 1254	2/22/2011	82		Yes	Y				20	6.7	ug/kg
JVE-03SC-1112.2-110221	11-3739-SK00A	Aroclor 1232	2/22/2011	20		Yes	N	U			20	6.7	ug/kg

SDG: SK01

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-04SC-089.2-110221	11-3752-SK01A	Total solids	2/21/2011	86.2		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-04SC-089.2-110221	11-3752-SK01A	Total organic carbon	2/22/2011	0.104		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-04SC-089.2-110221	11-3752-SK01A	Aroclor 1221	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-04SC-089.2-110221	11-3752-SK01A	Aroclor 1242	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-04SC-089.2-110221	11-3752-SK01A	Aroclor 1016	2/22/2011	19		Yes	N	U			19	4.9	ug/kg
JVE-04SC-089.2-110221	11-3752-SK01A	Aroclor 1232	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-04SC-089.2-110221	11-3752-SK01A	Aroclor 1254	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-04SC-089.2-110221	11-3752-SK01A	Aroclor 1260	2/22/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-04SC-089.2-110221	11-3752-SK01A	Aroclor 1248	2/22/2011	19		Yes	N	U			19	6.6	ug/kg

SDG: SL49

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-207SC-0607-110216	11-4486-SL49A	Total solids	3/7/2011	55.5		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-207SC-0607-110216	11-4486-SL49A	Total organic carbon	3/8/2011	2.32		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-207SC-0607-110216	11-4486-SL49A	Aroclor 1248	3/5/2011	22		Yes	N	U			22	7.6	ug/kg
JVE-207SC-0607-110216	11-4486-SL49A	Aroclor 1242	3/5/2011	410		Yes	Y				22	7.6	ug/kg
JVE-207SC-0607-110216	11-4486-SL49A	Aroclor 1221	3/5/2011	22		Yes	N	U			22	7.6	ug/kg
JVE-207SC-0607-110216	11-4486-SL49A	Aroclor 1254	3/5/2011	460		Yes	Y				22	7.6	ug/kg
JVE-207SC-0607-110216	11-4486-SL49A	Aroclor 1232	3/5/2011	22		Yes	N	U			22	7.6	ug/kg
JVE-207SC-0607-110216	11-4486-SL49A	Aroclor 1260	3/5/2011	140		Yes	Y				22	7.6	ug/kg
JVE-207SC-0607-110216	11-4486-SL49A	Aroclor 1016	3/5/2011	22		Yes	N	U			22	5.7	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-0708-110221	11-4607-SL71A	Total solids	3/7/2011	59.6	Yes	Y				0.01		pct
JVE-03SC-0809-110221	11-4608-SL71B	Total solids	3/7/2011	75.2	Yes	Y				0.01		pct
JVE-03SC-0910-110221	11-4609-SL71C	Total solids	3/7/2011	74.8	Yes	Y				0.01		pct
JVE-03SC-1011-110221	11-4610-SL71D	Total solids	3/7/2011	74.1	Yes	Y				0.01		pct
JVE-04SC-0506-110221	11-4611-SL71E	Total solids	3/7/2011	81.4	Yes	Y				0.01		pct
JVE-04SC-0607-110221	11-4612-SL71F	Total solids	3/7/2011	84.3	Yes	Y				0.01		pct
JVE-04SC-0708-110221	11-4613-SL71G	Total solids	3/7/2011	85	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-0708-110221	11-4607-SL71A	Total organic carbon	3/8/2011	1.49	Yes	Y				0.020	0.00290	pct
JVE-03SC-0809-110221	11-4608-SL71B	Total organic carbon	3/8/2011	1.31	Yes	Y				0.020	0.00290	pct
JVE-03SC-0910-110221	11-4609-SL71C	Total organic carbon	3/8/2011	1.33	Yes	Y				0.020	0.00290	pct
JVE-03SC-1011-110221	11-4610-SL71D	Total organic carbon	3/8/2011	1.38	Yes	Y				0.020	0.00290	pct
JVE-04SC-0506-110221	11-4611-SL71E	Total organic carbon	3/8/2011	0.142	Yes	Y				0.020	0.00290	pct
JVE-04SC-0607-110221	11-4612-SL71F	Total organic carbon	3/8/2011	0.085	Yes	Y				0.020	0.00290	pct
JVE-04SC-0708-110221	11-4613-SL71G	Total organic carbon	3/8/2011	0.138	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-0708-110221	11-4607-SL71A	Aroclor 1242	3/9/2011	16	Yes	N	U			16	5.9	ug/kg
JVE-03SC-0708-110221	11-4607-SL71A	Aroclor 1232	3/9/2011	16	Yes	N	U			16	5.9	ug/kg
JVE-03SC-0708-110221	11-4607-SL71A	Aroclor 1260	3/9/2011	17	Yes	Y				16	5.9	ug/kg
JVE-03SC-0708-110221	11-4607-SL71A	Aroclor 1254	3/9/2011	79	Yes	Y				16	5.9	ug/kg
JVE-03SC-0708-110221	11-4607-SL71A	Aroclor 1221	3/9/2011	16	Yes	N	U			16	5.9	ug/kg
JVE-03SC-0708-110221	11-4607-SL71A	Aroclor 1248	3/9/2011	40	Yes	N	Y			40	5.9	ug/kg
JVE-03SC-0708-110221	11-4607-SL71A	Aroclor 1016	3/9/2011	16	Yes	N	U			16	4.8	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-0809-110221	11-4608-SL71B	Aroclor 1221	3/9/2011	16	Yes	N	U			16	5.7	ug/kg
JVE-03SC-0809-110221	11-4608-SL71B	Aroclor 1254	3/9/2011	96	Yes	Y				16	5.7	ug/kg
JVE-03SC-0809-110221	11-4608-SL71B	Aroclor 1260	3/9/2011	38	Yes	Y				16	5.7	ug/kg
JVE-03SC-0809-110221	11-4608-SL71B	Aroclor 1016	3/9/2011	16	Yes	N	U			16	4.7	ug/kg
JVE-03SC-0809-110221	11-4608-SL71B	Aroclor 1232	3/9/2011	16	Yes	N	U			16	5.7	ug/kg
JVE-03SC-0809-110221	11-4608-SL71B	Aroclor 1242	3/9/2011	16	Yes	N	U			16	5.7	ug/kg
JVE-03SC-0809-110221	11-4608-SL71B	Aroclor 1248	3/9/2011	62	Yes	N	Y			62	5.7	ug/kg
JVE-03SC-0910-110221	11-4609-SL71C	Aroclor 1248	3/9/2011	15	Yes	N	U			15	5.7	ug/kg
JVE-03SC-0910-110221	11-4609-SL71C	Aroclor 1260	3/9/2011	15	Yes	N	U			15	5.7	ug/kg
JVE-03SC-0910-110221	11-4609-SL71C	Aroclor 1242	3/9/2011	15	Yes	N	U			15	5.7	ug/kg
JVE-03SC-0910-110221	11-4609-SL71C	Aroclor 1254	3/9/2011	22	Yes	Y				15	5.7	ug/kg
JVE-03SC-0910-110221	11-4609-SL71C	Aroclor 1221	3/9/2011	15	Yes	N	U			15	5.7	ug/kg
JVE-03SC-0910-110221	11-4609-SL71C	Aroclor 1232	3/9/2011	15	Yes	N	U			15	5.7	ug/kg
JVE-03SC-0910-110221	11-4609-SL71C	Aroclor 1016	3/9/2011	15	Yes	N	U			15	4.7	ug/kg
JVE-03SC-1011-110221	11-4610-SL71D	Aroclor 1232	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-03SC-1011-110221	11-4610-SL71D	Aroclor 1221	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-03SC-1011-110221	11-4610-SL71D	Aroclor 1254	3/9/2011	44	Yes	Y				16	5.8	ug/kg
JVE-03SC-1011-110221	11-4610-SL71D	Aroclor 1242	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-03SC-1011-110221	11-4610-SL71D	Aroclor 1016	3/9/2011	16	Yes	N	U			16	4.8	ug/kg
JVE-03SC-1011-110221	11-4610-SL71D	Aroclor 1260	3/9/2011	20	Yes	Y				16	5.8	ug/kg
JVE-03SC-1011-110221	11-4610-SL71D	Aroclor 1248	3/9/2011	31	Yes	N	Y			31	5.8	ug/kg
JVE-04SC-0506-110221	11-4611-SL71E	Aroclor 1016	3/9/2011	16	Yes	N	U			16	4.9	ug/kg
JVE-04SC-0506-110221	11-4611-SL71E	Aroclor 1248	3/9/2011	16	Yes	N	U			16	5.9	ug/kg
JVE-04SC-0506-110221	11-4611-SL71E	Aroclor 1242	3/9/2011	16	Yes	N	U			16	5.9	ug/kg
JVE-04SC-0506-110221	11-4611-SL71E	Aroclor 1232	3/9/2011	16	Yes	N	U			16	5.9	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-04SC-0506-110221	11-4611-SL71E	Aroclor 1221	3/9/2011	16	Yes	N	U			16	5.9	ug/kg
JVE-04SC-0506-110221	11-4611-SL71E	Aroclor 1254	3/9/2011	16	Yes	N	U			16	5.9	ug/kg
JVE-04SC-0506-110221	11-4611-SL71E	Aroclor 1260	3/9/2011	16	Yes	N	U			16	5.9	ug/kg
JVE-04SC-0607-110221	11-4612-SL71F	Aroclor 1016	3/9/2011	16	Yes	N	U			16	4.8	ug/kg
JVE-04SC-0607-110221	11-4612-SL71F	Aroclor 1260	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0607-110221	11-4612-SL71F	Aroclor 1232	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0607-110221	11-4612-SL71F	Aroclor 1254	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0607-110221	11-4612-SL71F	Aroclor 1248	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0607-110221	11-4612-SL71F	Aroclor 1221	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0607-110221	11-4612-SL71F	Aroclor 1242	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0708-110221	11-4613-SL71G	Aroclor 1221	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0708-110221	11-4613-SL71G	Aroclor 1254	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0708-110221	11-4613-SL71G	Aroclor 1232	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0708-110221	11-4613-SL71G	Aroclor 1248	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0708-110221	11-4613-SL71G	Aroclor 1016	3/9/2011	16	Yes	N	U			16	4.8	ug/kg
JVE-04SC-0708-110221	11-4613-SL71G	Aroclor 1242	3/9/2011	16	Yes	N	U			16	5.8	ug/kg
JVE-04SC-0708-110221	11-4613-SL71G	Aroclor 1260	3/9/2011	16	Yes	N	U			16	5.8	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1004SC-0607-110221	11-4614-SL72A	Total solids	3/7/2011	86.1		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1004SC-0607-110221	11-4614-SL72A	Total organic carbon	3/8/2011	0.11		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1004SC-0607-110221	11-4614-SL72A	Aroclor 1221	3/9/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-1004SC-0607-110221	11-4614-SL72A	Aroclor 1232	3/9/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-1004SC-0607-110221	11-4614-SL72A	Aroclor 1260	3/9/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-1004SC-0607-110221	11-4614-SL72A	Aroclor 1254	3/9/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-1004SC-0607-110221	11-4614-SL72A	Aroclor 1248	3/9/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-1004SC-0607-110221	11-4614-SL72A	Aroclor 1016	3/9/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-1004SC-0607-110221	11-4614-SL72A	Aroclor 1242	3/9/2011	20		Yes	N	U			20	6.7	ug/kg

SDG: SM77

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-0607-110221	11-5308-SM77A	Total solids	3/11/2011	63	Yes	Y				0.01		pct
JVE-04SC-0405-110221	11-5309-SM77B	Total solids	3/11/2011	86.1	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-0607-110221	11-5308-SM77A	Total organic carbon	3/14/2011	1.86	Yes	Y				0.020	0.00290	pct
JVE-04SC-0405-110221	11-5309-SM77B	Total organic carbon	3/14/2011	0.114	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-0607-110221	11-5308-SM77A	Aroclor 1232	3/14/2011	80	Yes	N	U			80	27	ug/kg
JVE-03SC-0607-110221	11-5308-SM77A	Aroclor 1242	3/14/2011	80	Yes	N	U			80	27	ug/kg
JVE-03SC-0607-110221	11-5308-SM77A	Aroclor 1016	3/14/2011	80	Yes	N	U			80	21	ug/kg
JVE-03SC-0607-110221	11-5308-SM77A	Aroclor 1248	3/14/2011	1000	Yes	N	Y			1000	27	ug/kg
JVE-03SC-0607-110221	11-5308-SM77A	Aroclor 1254	3/14/2011	1000	Yes	Y				80	27	ug/kg
JVE-03SC-0607-110221	11-5308-SM77A	Aroclor 1221	3/14/2011	80	Yes	N	U			80	27	ug/kg
JVE-03SC-0607-110221	11-5308-SM77A	Aroclor 1260	3/14/2011	360	Yes	Y				80	27	ug/kg
JVE-04SC-0405-110221	11-5309-SM77B	Aroclor 1242	3/14/2011	20	Yes	N	U			20	1.4	ug/kg
JVE-04SC-0405-110221	11-5309-SM77B	Aroclor 1232	3/14/2011	20	Yes	N	U			20	1.4	ug/kg
JVE-04SC-0405-110221	11-5309-SM77B	Aroclor 1221	3/14/2011	20	Yes	N	U			20	1.4	ug/kg
JVE-04SC-0405-110221	11-5309-SM77B	Aroclor 1254	3/14/2011	20	Yes	N	U			20	1.4	ug/kg
JVE-04SC-0405-110221	11-5309-SM77B	Aroclor 1260	3/14/2011	20	Yes	N	U			20	1.4	ug/kg
JVE-04SC-0405-110221	11-5309-SM77B	Aroclor 1248	3/14/2011	20	Yes	N	U			20	1.4	ug/kg
JVE-04SC-0405-110221	11-5309-SM77B	Aroclor 1016	3/14/2011	20	Yes	N	U			20	1.0	ug/kg

SDG: SN49

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1206SC-1011-110316	11-5870-SN49I	Total solids	3/16/2011	68.2	Yes	Y				0.01		pct
JVE-206SC-0607-110316	11-5862-SN49A	Total solids	3/16/2011	52.7	Yes	Y				0.01		pct
JVE-206SC-0708-110316	11-5863-SN49B	Total solids	3/16/2011	56.3	Yes	Y				0.01		pct
JVE-206SC-0809-110316	11-5864-SN49C	Total solids	3/16/2011	58.9	Yes	Y				0.01		pct
JVE-206SC-0910-110316	11-5865-SN49D	Total solids	3/16/2011	62.3	Yes	Y				0.01		pct
JVE-206SC-1011-110316	11-5866-SN49E	Total solids	3/16/2011	68	Yes	Y				0.01		pct
JVE-206SC-1112-110316	11-5867-SN49F	Total solids	3/16/2011	66.8	Yes	Y				0.01		pct
JVE-206SC-1213-110316	11-5868-SN49G	Total solids	3/16/2011	69.2	Yes	Y				0.01		pct
JVE-206SC-1313.6-11031	11-5869-SN49H	Total solids	3/16/2011	70.1	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1206SC-1011-110316	11-5870-SN49I	Total organic carbon	3/18/2011	1.69	Yes	Y				0.020	0.00290	pct
JVE-206SC-0607-110316	11-5862-SN49A	Total organic carbon	3/18/2011	2.48	Yes	Y				0.020	0.00290	pct
JVE-206SC-0708-110316	11-5863-SN49B	Total organic carbon	3/18/2011	2.1	Yes	Y				0.020	0.00290	pct
JVE-206SC-0809-110316	11-5864-SN49C	Total organic carbon	3/18/2011	2.19	Yes	Y				0.020	0.00290	pct
JVE-206SC-0910-110316	11-5865-SN49D	Total organic carbon	3/18/2011	1.76	Yes	Y				0.020	0.00290	pct
JVE-206SC-1011-110316	11-5866-SN49E	Total organic carbon	3/18/2011	1.54	Yes	Y				0.020	0.00290	pct
JVE-206SC-1112-110316	11-5867-SN49F	Total organic carbon	3/18/2011	2.24	Yes	Y				0.020	0.00290	pct
JVE-206SC-1213-110316	11-5868-SN49G	Total organic carbon	3/18/2011	1.78	Yes	Y				0.020	0.00290	pct
JVE-206SC-1313.6-11031	11-5869-SN49H	Total organic carbon	3/18/2011	1.67	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1206SC-1011-110316	11-5870-SN49I	Aroclor 1260	3/22/2011	40	Yes	Y				19	6.6	ug/kg
JVE-1206SC-1011-110316	11-5870-SN49I	Aroclor 1254	3/22/2011	42	Yes	Y				19	6.6	ug/kg
JVE-1206SC-1011-110316	11-5870-SN49I	Aroclor 1016	3/22/2011	19	Yes	N	U			19	5.0	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-1206SC-1011-110316	11-5870-SN49I	Aroclor 1242	3/22/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-1206SC-1011-110316	11-5870-SN49I	Aroclor 1232	3/22/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-1206SC-1011-110316	11-5870-SN49I	Aroclor 1221	3/22/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-1206SC-1011-110316	11-5870-SN49I	Aroclor 1248	3/22/2011	24	Yes	N	Y			24	6.6	ug/kg
JVE-206SC-0607-110316	11-5862-SN49A	Aroclor 1242	3/22/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-206SC-0607-110316	11-5862-SN49A	Aroclor 1248	3/22/2011	110	Yes	Y				20	6.6	ug/kg
JVE-206SC-0607-110316	11-5862-SN49A	Aroclor 1232	3/22/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-206SC-0607-110316	11-5862-SN49A	Aroclor 1221	3/22/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-206SC-0607-110316	11-5862-SN49A	Aroclor 1016	3/22/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-206SC-0607-110316	11-5862-SN49A	Aroclor 1260	3/22/2011	31	Yes	Y				20	6.6	ug/kg
JVE-206SC-0607-110316	11-5862-SN49A	Aroclor 1254	3/22/2011	100	Yes	Y				20	6.6	ug/kg
JVE-206SC-0708-110316	11-5863-SN49B	Aroclor 1221	3/22/2011	99	Yes	N	U			99	34	ug/kg
JVE-206SC-0708-110316	11-5863-SN49B	Aroclor 1242	3/22/2011	99	Yes	N	U			99	34	ug/kg
JVE-206SC-0708-110316	11-5863-SN49B	Aroclor 1016	3/22/2011	99	Yes	N	U			99	25	ug/kg
JVE-206SC-0708-110316	11-5863-SN49B	Aroclor 1248	3/22/2011	990	Yes	N	Y			990	34	ug/kg
JVE-206SC-0708-110316	11-5863-SN49B	Aroclor 1232	3/22/2011	99	Yes	N	U			99	34	ug/kg
JVE-206SC-0708-110316	11-5863-SN49B	Aroclor 1260	3/22/2011	340	Yes	Y				99	34	ug/kg
JVE-206SC-0708-110316	11-5863-SN49B	Aroclor 1254	3/22/2011	920	Yes	Y				99	34	ug/kg
JVE-206SC-0809-110316	11-5864-SN49C	Aroclor 1232	3/22/2011	24	Yes	N	U			24	8.3	ug/kg
JVE-206SC-0809-110316	11-5864-SN49C	Aroclor 1260	3/22/2011	96	Yes	Y				24	8.3	ug/kg
JVE-206SC-0809-110316	11-5864-SN49C	Aroclor 1221	3/22/2011	24	Yes	N	U			24	8.3	ug/kg
JVE-206SC-0809-110316	11-5864-SN49C	Aroclor 1248	3/22/2011	610	Yes	N	Y			610	8.3	ug/kg
JVE-206SC-0809-110316	11-5864-SN49C	Aroclor 1016	3/22/2011	24	Yes	N	U			24	6.2	ug/kg
JVE-206SC-0809-110316	11-5864-SN49C	Aroclor 1242	3/22/2011	24	Yes	N	U			24	8.3	ug/kg
JVE-206SC-0809-110316	11-5864-SN49C	Aroclor 1254	3/22/2011	360	Yes	Y	P			24	8.3	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-206SC-0910-110316	11-5865-SN49D	Aroclor 1016	3/22/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-206SC-0910-110316	11-5865-SN49D	Aroclor 1221	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-0910-110316	11-5865-SN49D	Aroclor 1242	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-0910-110316	11-5865-SN49D	Aroclor 1260	3/22/2011	85	Yes	Y				20	6.7	ug/kg
JVE-206SC-0910-110316	11-5865-SN49D	Aroclor 1254	3/22/2011	350	Yes	Y				20	6.7	ug/kg
JVE-206SC-0910-110316	11-5865-SN49D	Aroclor 1248	3/22/2011	490	Yes	N	Y			490	6.7	ug/kg
JVE-206SC-0910-110316	11-5865-SN49D	Aroclor 1232	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1011-110316	11-5866-SN49E	Aroclor 1248	3/22/2011	24	Yes	N	Y			24	6.6	ug/kg
JVE-206SC-1011-110316	11-5866-SN49E	Aroclor 1232	3/22/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-206SC-1011-110316	11-5866-SN49E	Aroclor 1221	3/22/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-206SC-1011-110316	11-5866-SN49E	Aroclor 1016	3/22/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-206SC-1011-110316	11-5866-SN49E	Aroclor 1254	3/22/2011	33	Yes	Y				20	6.6	ug/kg
JVE-206SC-1011-110316	11-5866-SN49E	Aroclor 1260	3/22/2011	33	Yes	Y				20	6.6	ug/kg
JVE-206SC-1011-110316	11-5866-SN49E	Aroclor 1242	3/22/2011	20	Yes	N	U			20	6.6	ug/kg
JVE-206SC-1112-110316	11-5867-SN49F	Aroclor 1260	3/22/2011	39	Yes	Y				20	6.7	ug/kg
JVE-206SC-1112-110316	11-5867-SN49F	Aroclor 1242	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1112-110316	11-5867-SN49F	Aroclor 1016	3/22/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-206SC-1112-110316	11-5867-SN49F	Aroclor 1248	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1112-110316	11-5867-SN49F	Aroclor 1232	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1112-110316	11-5867-SN49F	Aroclor 1221	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1112-110316	11-5867-SN49F	Aroclor 1254	3/22/2011	42	Yes	Y				20	6.7	ug/kg
JVE-206SC-1213-110316	11-5868-SN49G	Aroclor 1248	3/22/2011	34	Yes	N	Y			34	6.7	ug/kg
JVE-206SC-1213-110316	11-5868-SN49G	Aroclor 1242	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1213-110316	11-5868-SN49G	Aroclor 1221	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1213-110316	11-5868-SN49G	Aroclor 1254	3/22/2011	57	Yes	Y				20	6.7	ug/kg

SDG: SN49

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-206SC-1213-110316	11-5868-SN49G	Aroclor 1232	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1213-110316	11-5868-SN49G	Aroclor 1016	3/22/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-206SC-1213-110316	11-5868-SN49G	Aroclor 1260	3/22/2011	41	Yes	Y				20	6.7	ug/kg
JVE-206SC-1313.6-11031	11-5869-SN49H	Aroclor 1221	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1313.6-11031	11-5869-SN49H	Aroclor 1260	3/22/2011	35	Yes	Y				20	6.7	ug/kg
JVE-206SC-1313.6-11031	11-5869-SN49H	Aroclor 1254	3/22/2011	52	Yes	Y				20	6.7	ug/kg
JVE-206SC-1313.6-11031	11-5869-SN49H	Aroclor 1242	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1313.6-11031	11-5869-SN49H	Aroclor 1232	3/22/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-206SC-1313.6-11031	11-5869-SN49H	Aroclor 1248	3/22/2011	30	Yes	N	Y			30	6.7	ug/kg
JVE-206SC-1313.6-11031	11-5869-SN49H	Aroclor 1016	3/22/2011	20	Yes	N	U			20	5.0	ug/kg

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-0708-110218	11-7122-SP67J	Total solids	3/31/2011	83.5		Yes	Y				0.01		pct
JVE-01SC-0809-110218	11-7123-SP67K	Total solids	3/31/2011	87.9		Yes	Y				0.01		pct
JVE-02SC-0708-110221	11-7124-SP67L	Total solids	3/31/2011	87		Yes	Y				0.01		pct
JVE-02SC-0809-110221	11-7125-SP67M	Total solids	3/31/2011	82.8		Yes	Y				0.01		pct
JVE-04SC-0304-110221	11-7126-SP67N	Total solids	3/31/2011	81.6		Yes	Y				0.01		pct
JVE-07SC-0809-110218	11-7121-SP67I	Total solids	3/31/2011	83.4		Yes	Y				0.01		pct
JVE-210SC-0102-110216	11-7113-SP67A	Total solids	3/31/2011	50		Yes	Y				0.01		pct
JVE-215SC-0102-110216	11-7114-SP67B	Total solids	3/31/2011	51.5		Yes	Y				0.01		pct
JVE-216SC-0910-110218	11-7119-SP67G	Total solids	3/31/2011	83.8		Yes	Y				0.01		pct
JVE-309SC-0405-110217	11-7115-SP67C	Total solids	3/31/2011	81.6		Yes	Y				0.01		pct
JVE-314SC-0405-110218	11-7118-SP67F	Total solids	3/31/2011	93		Yes	Y				0.01		pct
JVE-316SC-0405-110217	11-7116-SP67D	Total solids	3/31/2011	80.7		Yes	Y				0.01		pct
JVE-320SC-0405-110217	11-7117-SP67E	Total solids	3/31/2011	59.6		Yes	Y				0.01		pct
JVE-322SC-0708-110218	11-7120-SP67H	Total solids	3/31/2011	62.7		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-0708-110218	11-7122-SP67J	Total organic carbon	4/4/2011	0.315		Yes	Y				0.020	0.00290	pct
JVE-01SC-0809-110218	11-7123-SP67K	Total organic carbon	4/4/2011	0.048		Yes	Y				0.020	0.00290	pct
JVE-02SC-0708-110221	11-7124-SP67L	Total organic carbon	4/4/2011	0.044		Yes	Y				0.020	0.00290	pct
JVE-02SC-0809-110221	11-7125-SP67M	Total organic carbon	4/4/2011	0.096		Yes	Y				0.020	0.00290	pct
JVE-04SC-0304-110221	11-7126-SP67N	Total organic carbon	4/4/2011	0.357		Yes	Y				0.020	0.00290	pct
JVE-07SC-0809-110218	11-7121-SP67I	Total organic carbon	4/4/2011	1.69		Yes	Y				0.020	0.00290	pct
JVE-210SC-0102-110216	11-7113-SP67A	Total organic carbon	4/4/2011	2.11		Yes	Y				0.020	0.00290	pct
JVE-215SC-0102-110216	11-7114-SP67B	Total organic carbon	4/4/2011	1.53		Yes	Y				0.020	0.00290	pct
JVE-216SC-0910-110218	11-7119-SP67G	Total organic carbon	4/4/2011	0.127		Yes	Y				0.020	0.00290	pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-309SC-0405-110217	11-7115-SP67C	Total organic carbon	4/4/2011	0.137		Yes	Y				0.020	0.00290	pct
JVE-314SC-0405-110218	11-7118-SP67F	Total organic carbon	4/4/2011	0.795		Yes	Y				0.020	0.00290	pct
JVE-316SC-0405-110217	11-7116-SP67D	Total organic carbon	4/4/2011	0.734		Yes	Y				0.020	0.00290	pct
JVE-320SC-0405-110217	11-7117-SP67E	Total organic carbon	4/4/2011	2		Yes	Y				0.020	0.00290	pct
JVE-322SC-0708-110218	11-7120-SP67H	Total organic carbon	4/4/2011	2.06		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-0708-110218	11-7122-SP67J	Aroclor 1260	4/6/2011	20		Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-01SC-0708-110218	11-7122-SP67J	Aroclor 1242	4/6/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0708-110218	11-7122-SP67J	Aroclor 1016	4/6/2011	20		Yes	N	U			20	1.0	ug/kg
JVE-01SC-0708-110218	11-7122-SP67J	Aroclor 1248	4/6/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0708-110218	11-7122-SP67J	Aroclor 1232	4/6/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0708-110218	11-7122-SP67J	Aroclor 1221	4/6/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0708-110218	11-7122-SP67J	Aroclor 1254	4/6/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0809-110218	11-7123-SP67K	Aroclor 1221	4/6/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0809-110218	11-7123-SP67K	Aroclor 1242	4/6/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0809-110218	11-7123-SP67K	Aroclor 1260	4/6/2011	20		Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-01SC-0809-110218	11-7123-SP67K	Aroclor 1016	4/6/2011	20		Yes	N	U			20	1.0	ug/kg
JVE-01SC-0809-110218	11-7123-SP67K	Aroclor 1254	4/6/2011	24		Yes	Y				20	1.3	ug/kg
JVE-01SC-0809-110218	11-7123-SP67K	Aroclor 1248	4/6/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0809-110218	11-7123-SP67K	Aroclor 1232	4/6/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0708-110221	11-7124-SP67L	Aroclor 1248	4/6/2011	20		Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-02SC-0708-110221	11-7124-SP67L	Aroclor 1016	4/6/2011	20		Yes	N	U	UJ	19	20	0.99	ug/kg
JVE-02SC-0708-110221	11-7124-SP67L	Aroclor 1254	4/6/2011	20		Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-02SC-0708-110221	11-7124-SP67L	Aroclor 1260	4/6/2011	20		Yes	N	U	UJ	19	20	1.3	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-02SC-0708-110221	11-7124-SP67L	Aroclor 1221	4/6/2011	20	Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-02SC-0708-110221	11-7124-SP67L	Aroclor 1242	4/6/2011	20	Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-02SC-0708-110221	11-7124-SP67L	Aroclor 1232	4/6/2011	20	Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-02SC-0809-110221	11-7125-SP67M	Aroclor 1254	4/6/2011	20	Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-02SC-0809-110221	11-7125-SP67M	Aroclor 1242	4/6/2011	20	Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-02SC-0809-110221	11-7125-SP67M	Aroclor 1221	4/6/2011	20	Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-02SC-0809-110221	11-7125-SP67M	Aroclor 1232	4/6/2011	20	Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-02SC-0809-110221	11-7125-SP67M	Aroclor 1260	4/6/2011	20	Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-02SC-0809-110221	11-7125-SP67M	Aroclor 1016	4/6/2011	20	Yes	N	U	UJ	19	20	1.0	ug/kg
JVE-02SC-0809-110221	11-7125-SP67M	Aroclor 1248	4/6/2011	20	Yes	N	U	UJ	19	20	1.3	ug/kg
JVE-04SC-0304-110221	11-7126-SP67N	Aroclor 1232	4/6/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-04SC-0304-110221	11-7126-SP67N	Aroclor 1221	4/6/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-04SC-0304-110221	11-7126-SP67N	Aroclor 1248	4/6/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-04SC-0304-110221	11-7126-SP67N	Aroclor 1016	4/6/2011	19	Yes	N	U	UJ	19	19	0.99	ug/kg
JVE-04SC-0304-110221	11-7126-SP67N	Aroclor 1242	4/6/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-04SC-0304-110221	11-7126-SP67N	Aroclor 1260	4/6/2011	71	Yes	Y				19	1.3	ug/kg
JVE-04SC-0304-110221	11-7126-SP67N	Aroclor 1254	4/6/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-07SC-0809-110218	11-7121-SP67I	Aroclor 1242	4/5/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-07SC-0809-110218	11-7121-SP67I	Aroclor 1232	4/5/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-07SC-0809-110218	11-7121-SP67I	Aroclor 1016	4/5/2011	19	Yes	N	U			19	0.99	ug/kg
JVE-07SC-0809-110218	11-7121-SP67I	Aroclor 1248	4/5/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-07SC-0809-110218	11-7121-SP67I	Aroclor 1260	4/5/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-07SC-0809-110218	11-7121-SP67I	Aroclor 1254	4/5/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-07SC-0809-110218	11-7121-SP67I	Aroclor 1221	4/5/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-210SC-0102-110216	11-7113-SP67A	Aroclor 1254	4/5/2011	38	Yes	Y				20	1.3	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-210SC-0102-110216	11-7113-SP67A	Aroclor 1242	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-210SC-0102-110216	11-7113-SP67A	Aroclor 1016	4/5/2011	20	Yes	N	U			20	1.0	ug/kg
JVE-210SC-0102-110216	11-7113-SP67A	Aroclor 1248	4/5/2011	27	Yes	Y				20	1.3	ug/kg
JVE-210SC-0102-110216	11-7113-SP67A	Aroclor 1221	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-210SC-0102-110216	11-7113-SP67A	Aroclor 1260	4/5/2011	24	Yes	Y				20	1.3	ug/kg
JVE-210SC-0102-110216	11-7113-SP67A	Aroclor 1232	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-215SC-0102-110216	11-7114-SP67B	Aroclor 1221	4/7/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-215SC-0102-110216	11-7114-SP67B	Aroclor 1248	4/7/2011	48	Yes	Y				20	6.8	ug/kg
JVE-215SC-0102-110216	11-7114-SP67B	Aroclor 1260	4/7/2011	39	Yes	Y				20	6.8	ug/kg
JVE-215SC-0102-110216	11-7114-SP67B	Aroclor 1254	4/7/2011	61	Yes	Y				20	6.8	ug/kg
JVE-215SC-0102-110216	11-7114-SP67B	Aroclor 1232	4/7/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-215SC-0102-110216	11-7114-SP67B	Aroclor 1016	4/7/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-215SC-0102-110216	11-7114-SP67B	Aroclor 1242	4/7/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-216SC-0910-110218	11-7119-SP67G	Aroclor 1232	4/5/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-216SC-0910-110218	11-7119-SP67G	Aroclor 1221	4/5/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-216SC-0910-110218	11-7119-SP67G	Aroclor 1260	4/5/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-216SC-0910-110218	11-7119-SP67G	Aroclor 1248	4/5/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-216SC-0910-110218	11-7119-SP67G	Aroclor 1016	4/5/2011	19	Yes	N	U	UJ	19	19	0.99	ug/kg
JVE-216SC-0910-110218	11-7119-SP67G	Aroclor 1242	4/5/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-216SC-0910-110218	11-7119-SP67G	Aroclor 1254	4/5/2011	19	Yes	N	U	UJ	19	19	1.3	ug/kg
JVE-309SC-0405-110217	11-7115-SP67C	Aroclor 1232	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-309SC-0405-110217	11-7115-SP67C	Aroclor 1221	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-309SC-0405-110217	11-7115-SP67C	Aroclor 1254	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-309SC-0405-110217	11-7115-SP67C	Aroclor 1248	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-309SC-0405-110217	11-7115-SP67C	Aroclor 1260	4/5/2011	20	Yes	N	U			20	1.3	ug/kg

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-309SC-0405-110217	11-7115-SP67C	Aroclor 1242	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-309SC-0405-110217	11-7115-SP67C	Aroclor 1016	4/5/2011	20	Yes	N	U			20	1.0	ug/kg
JVE-314SC-0405-110218	11-7118-SP67F	Aroclor 1242	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-314SC-0405-110218	11-7118-SP67F	Aroclor 1016	4/5/2011	20	Yes	N	U			20	1.0	ug/kg
JVE-314SC-0405-110218	11-7118-SP67F	Aroclor 1221	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-314SC-0405-110218	11-7118-SP67F	Aroclor 1260	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-314SC-0405-110218	11-7118-SP67F	Aroclor 1254	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-314SC-0405-110218	11-7118-SP67F	Aroclor 1248	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-314SC-0405-110218	11-7118-SP67F	Aroclor 1232	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-316SC-0405-110217	11-7116-SP67D	Aroclor 1221	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-316SC-0405-110217	11-7116-SP67D	Aroclor 1254	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-316SC-0405-110217	11-7116-SP67D	Aroclor 1232	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-316SC-0405-110217	11-7116-SP67D	Aroclor 1242	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-316SC-0405-110217	11-7116-SP67D	Aroclor 1016	4/5/2011	20	Yes	N	U			20	0.99	ug/kg
JVE-316SC-0405-110217	11-7116-SP67D	Aroclor 1248	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-316SC-0405-110217	11-7116-SP67D	Aroclor 1260	4/5/2011	58	Yes	Y				20	1.3	ug/kg
JVE-320SC-0405-110217	11-7117-SP67E	Aroclor 1248	4/5/2011	58	Yes	N	Y			58	1.3	ug/kg
JVE-320SC-0405-110217	11-7117-SP67E	Aroclor 1016	4/5/2011	20	Yes	N	U			20	0.99	ug/kg
JVE-320SC-0405-110217	11-7117-SP67E	Aroclor 1232	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-320SC-0405-110217	11-7117-SP67E	Aroclor 1221	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-320SC-0405-110217	11-7117-SP67E	Aroclor 1254	4/5/2011	110	Yes	Y				20	1.3	ug/kg
JVE-320SC-0405-110217	11-7117-SP67E	Aroclor 1260	4/5/2011	98	Yes	Y				20	1.3	ug/kg
JVE-320SC-0405-110217	11-7117-SP67E	Aroclor 1242	4/5/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-322SC-0708-110218	11-7120-SP67H	Aroclor 1260	4/7/2011	110	Yes	Y				40	13	ug/kg
JVE-322SC-0708-110218	11-7120-SP67H	Aroclor 1254	4/7/2011	450	Yes	Y				40	13	ug/kg

SDG: SP67

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-322SC-0708-110218	11-7120-SP67H	Aroclor 1221	4/7/2011	40	Yes	N	U			40	13	ug/kg
JVE-322SC-0708-110218	11-7120-SP67H	Aroclor 1232	4/7/2011	40	Yes	N	U			40	13	ug/kg
JVE-322SC-0708-110218	11-7120-SP67H	Aroclor 1248	4/7/2011	590	Yes	Y				40	13	ug/kg
JVE-322SC-0708-110218	11-7120-SP67H	Aroclor 1016	4/7/2011	40	Yes	N	U			40	10	ug/kg
JVE-322SC-0708-110218	11-7120-SP67H	Aroclor 1242	4/7/2011	40	Yes	N	U			40	13	ug/kg

Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437 **Web** www.lab-data.com **Fax** 760.634.0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

May 27, 2011

SUBJECT: Jorgensen Forge Facility, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on May 10, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 25449:

SDG #	**Fraction**
SR99/SS00, ST93	Polychlorinated Biphenyls, Wet Chemistry

The data validation was performed under EPA Level III & IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella Cuenco

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

V:\LOGIN\Anchor\Jorgensen\25449COV.wpd

254 pages-EX

Attachment 1

EDD 90/10

LDC #25449 (Anchor Environmental-Seattle WA /Jorgensen Forge Facility)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		TOC (Plumb)		Total Solids (160.3)																													
Matrix:	Water/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	SR99/SS00	05/10/11	06/01/11	0	27	0	31	0	31																												
B	ST93	05/10/11	06/01/11	0	2	0	2	0	2																												
B	ST93	05/10/11	06/01/11	0	3	0	3	0	3																												
Total	A/SC			0	32	0	36	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

25449ST.wpd

EMJ014905

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Jorgensen Forge Facility

Collection Date: February 16 through February 21, 2011

LDC Report Date: May 27, 2011

Matrix: Sediment

Parameters: Polychlorinated Biphenyls

Validation Level: EPA Level III

Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): SR99/SS00

Sample Identification

JVE-01SC-0203-110218
JVE-01SC-0304-110218
JVE-01SC-0405-110218
JVE-01SC-0506-110218
JVE-01SC-0607-110218
JVE-02SC-0001-110221
JVE-02SC-0102-110221
JVE-02SC-0203-110221
JVE-02SC-0304-110221
JVE-02SC-0405-110221
JVE-02SC-0506-110221
JVE-02SC-0607-110221
JVE-04SC-0001-110221
JVE-04SC-0102-110221
JVE-04SC-0203-110221
JVE-03SC-0405-110221
JVE-03SC-0506-110221
JVE-207SC-0102-110216
JVE-215SC-0001-110216
JVE-210SC-0001-110216
JVE-07SC-0506-110218
JVE-07SC-0607-110218
JVE-07SC-0708-110218
JVE-322SC-0607-110218
JVE-216SC-0708-110218
JVE-216SC-0809-110218
JVE-320SC-0304-110217
JVE-02SC-0506-110221MS
JVE-02SC-0506-110221MSD
JVE-216SC-0809-110218MS
JVE-216SC-0809-110218MSD
JVE-01SC-0001-110218
JVE-01SC-0102-110218
JVE-309SC-0304-110217
JVE-316SC-0304-110217
JVE-01SC-0001-110218MS
JVE-01SC-0001-110218MSD

Introduction

This data review covers 37 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures were reported at 6.8°C for sample JVE-322SC-0607-110218 and 9.1°C for sample JVE-320SC-0304-110217 upon receipt by the laboratory. Since the samples were received the same day that they were collected, time did not allow for sufficient cooling of the samples, therefore no data were qualified.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
4/20/11	ZB5	Aroclor-1260	21.2	JVE-207SC-0102-110216 JVE-215SC-0001-110216 JVE-210SC-0001-110216 JVE-07SC-0506-110218 JVE-07SC-0607-110218 MB-041611-1	Aroclor-1242 Aroclor-1248 Aroclor-1260	J (all detects) UJ (all non-detects)	A
4/21/11	ZB5	Aroclor-1260	22.6	JVE-322SC-0607-110218	Aroclor-1242 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for sample JVE-02SC-0001-110221. Since the sample was diluted out, no data were qualified.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to calibration %D, data were qualified as estimated in six samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level III data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SR99/SS00

SDG	Sample	Compound	Flag	A or P	Reason
SR99/SS00	JVE-207SC-0102-110216 JVE-215SC-0001-110216 JVE-210SC-0001-110216 JVE-07SC-0506-110218 JVE-07SC-0607-110218	Aroclor-1242 Aroclor-1248 Aroclor-1260	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
SR99/SS00	JVE-322SC-0607-110218	Aroclor-1242 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SR99/SS00

No Sample Data Qualified in this SDG

LDC #: 25449A3b **VALIDATION COMPLETENESS WORKSHEET** Date: 5/23/11
SDG #: SR99/SS00 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 2/16 – 2/21/11
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	% RSD ≤ 20
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	Acceptable IS
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediments

1 +	JVE-01SC-0203-110218	11 −	JVE-02SC-0506-110221	21 +	JVE-07SC-0506-110218	31	JVE-216SC-0809-110218MSD
2 +	JVE-01SC-0304-110218	12 −	JVE-02SC-0607-110221	22 +	JVE-07SC-0607-110218	32	
3 −	JVE-01SC-0405-110218	13 +	JVE-04SC-0001-110221	23 −	JVE-07SC-0708-110218	33	MB-041811
4 −	JVE-01SC-0506-110218	14 +	JVE-04SC-0102-110221	24 +	JVE-322SC-0607-110218	34 −	MB-041611-1
5 −	JVE-01SC-0607-110218	15 +	JVE-04SC-0203-110221	25 −	JVE-216SC-0708-110218	35	MB-041611-2
6 +	JVE-02SC-0001-110221	16 +	JVE-03SC-0405-110221	26 −	JVE-216SC-0809-110218	36	MB-042711
7 +	JVE-02SC-0102-110221	17 +	JVE-03SC-0506-110221	27 +	JVE-320SC-0304-110217	37	JVE-01SC-0001-110218
8 −	JVE-02SC-0203-110221	18 + 2	JVE-207SC-0102-110216	28 1	JVE-02SC-0506-110221MS	38	JVE-01SC-0102-110218
9 −	JVE-02SC-0304-110221	19 +	JVE-215SC-0001-110216	29 1	JVE-02SC-0506-110221MSD	39	JVE-309SC-0304-110217
10 −	JVE-02SC-0405-110221	20 +	JVE-210SC-0001-110216	30	JVE-216SC-0809-110218MS	40	JVE-316SC-0304-110217

41 #37 MS
42 #37 MSD

25449A3bW.wpd

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG.
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH.
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II.
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. DB 608	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. DB 1701	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE.	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF.	NN.

Notes:

EMJ014913

LDC #: 2549A3b

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Reviewer: FT
2nd Reviewer: [illegible]

All circled dates have exceeded the technical holding times.
Y N N/A Were all cooler temperatures within validation criteria?

METHOD: GC HPLC

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
27	soil	cooler	temp = 9.1	not	enough time	to cool	down
		↓			↓		
24		↓	= 6.8		↓		

TECHNICAL HOLDING TIME CRITERIA

VOLATILES:
- Water unpreserved: Aromatic within 7 days, non-aromatic within 14 days of sample collection.
- Water preserved: Both within 14 days of sample collection.
- Soils: Both within 14 days of sample collection.

EXTRACTABLES:
- Water: Extracted within 7 days, analyzed within 40 days.
- Soil: Extracted within 14 days, analyzed within 40 days.

HTNew.wpd

LDC #: 25449A3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? ___%D or ___RPD
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ~~≤15.0%~~ 20?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ~~≤15.0~~ 20)	RT (limit)	Associated Samples	Qualifications
	4/20/11	CCV	ZB5	BB	21.2	( )	MB-041611-1, 1-22	J/UJ/A
	11:53					( )		qual Y, Z, BB
						( )		
						( )		
						( )		
						( )		
	4/21/11	CCV	ZB5	BB	22.6	( )	24	J/UJ/A
	10:56					( )		qual Y, AA, BB
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		

CONCALNew.wpd

EMJ014915

LDC #: 25449A3b

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Are surrogates required by the method? Yes___ or No___.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were surrogates spiked into all samples and blanks?

Y (N) N/A Did all surrogate recoveries (%R) meet the QC limits?

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	6	surrogate	outside limit	m ( )	no qual 200X DL
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 25449 A3

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: ✓ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	41 + 42	BB	( )	146 (50-140)	( )	37	no qual SX DL
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

MSDNew.wpd

EMJ014917

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 16 through February 21, 2011
LDC Report Date:	May 19, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SR99/SS00

Sample Identification

JVE-01SC-0001-110218
JVE-01SC-0102-110218
JVE-01SC-0203-110218
JVE-01SC-0304-110218
JVE-01SC-0405-110218
JVE-01SC-0506-110218
JVE-01SC-0607-110218
JVE-02SC-0001-110221
JVE-02SC-0102-110221
JVE-02SC-0203-110221
JVE-02SC-0304-110221
JVE-02SC-0405-110221
JVE-02SC-0506-110221
JVE-02SC-0607-110221
JVE-04SC-0001-110221
JVE-04SC-0102-110221
JVE-04SC-0203-110221
JVE-03SC-0405-110221
JVE-03SC-0506-110221
JVE-207SC-0102-110216
JVE-215SC-0001-110216
JVE-210SC-0001-110216
JVE-07SC-0506-110218
JVE-07SC-0607-110218
JVE-07SC-0708-110218
JVE-322SC-0607-110218
JVE-216SC-0708-110218
JVE-216SC-0809-110218
JVE-320SC-0304-110217
JVE-309SC-0304-110217
JVE-316SC-0304-110217
JVE-01SC-0001-110218MS
JVE-01SC-0001-110218DUP
JVE-01SC-0001-110218TRP
JVE-207SC-0102-110216MS
JVE-207SC-0102-110216DUP
JVE-207SC-0102-110216TRP

Introduction

This data review covers 37 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SR99/SS00

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SR99/SS00

No Sample Data Qualified in this SDG

LDC #: 25449A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 5-19-11
SDG #: SR99/SS00 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: CR
2nd Reviewer: ✓

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/16-21/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A ~~MSD~~	MS
VI.	Duplicates Triplicated	A	DUP, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: sediment

1	JVE-01SC-0001-110218	11	JVE-02SC-0304-110221	21	JVE-215SC-0001-110216	31	JVE-316SC-0304-110217
2	JVE-01SC-0102-110218	12	JVE-02SC-0405-110221	22	JVE-210SC-0001-110216	32	JVE-01SC-0001-110218MS
3	JVE-01SC-0203-110218	13	JVE-02SC-0506-110221	23	JVE-07SC-0506-110218	33	JVE-01SC-0001-110218~~MSD~~ DUP
4	JVE-01SC-0304-110218	14	JVE-02SC-0607-110221	24	JVE-07SC-0607-110218	34	JVE-01SC-0001-110218~~DUP~~ TRP
5	JVE-01SC-0405-110218	15	JVE-04SC-0001-110221	25	JVE-07SC-0708-110218	35	JVE-207SC-0102-110216MS
6	JVE-01SC-0506-110218	16	JVE-04SC-0102-110221	26	JVE-322SC-0607-110218	36	JVE-207SC-0102-110216~~MSD~~ DUP
7	JVE-01SC-0607-110218	17	JVE-04SC-0203-110221	27	JVE-216SC-0708-110218	37	JVE-207SC-0102-110216~~DUP~~ TRP
8	JVE-02SC-0001-110221	18	JVE-03SC-0405-110221	28	JVE-216SC-0809-110218	38	
9	JVE-02SC-0102-110221	19	JVE-03SC-0506-110221	29	JVE-320SC-0304-110217	39	
10	JVE-02SC-0203-110221	20	JVE-207SC-0102-110216	30	JVE-309SC-0304-110217	40	

Notes:

LDC #: 25449A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-31		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC: 32,35		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
33,34,36,37		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

Jorgensen Forge Facility - LDC 25449

SDG: SR99

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-0001-110218	11-8261-SR99A	Total solids	4/15/2011	47.8		Yes	Y				0.01		pct
JVE-01SC-0102-110218	11-8262-SR99B	Total solids	4/15/2011	59.4		Yes	Y				0.01		pct
JVE-01SC-0203-110218	11-8263-SR99C	Total solids	4/15/2011	80.9		Yes	Y				0.01		pct
JVE-01SC-0304-110218	11-8264-SR99D	Total solids	4/15/2011	80.7		Yes	Y				0.01		pct
JVE-01SC-0405-110218	11-8265-SR99E	Total solids	4/15/2011	93.4		Yes	Y				0.01		pct
JVE-01SC-0506-110218	11-8266-SR99F	Total solids	4/15/2011	85.9		Yes	Y				0.01		pct
JVE-01SC-0607-110218	11-8267-SR99G	Total solids	4/15/2011	80.6		Yes	Y				0.01		pct
JVE-02SC-0001-110221	11-8268-SR99H	Total solids	4/15/2011	76.6		Yes	Y				0.01		pct
JVE-02SC-0102-110221	11-8269-SR99I	Total solids	4/15/2011	80.9		Yes	Y				0.01		pct
JVE-02SC-0203-110221	11-8270-SR99J	Total solids	4/15/2011	79.5		Yes	Y				0.01		pct
JVE-02SC-0304-110221	11-8271-SR99K	Total solids	4/15/2011	84.5		Yes	Y				0.01		pct
JVE-02SC-0405-110221	11-8272-SR99L	Total solids	4/15/2011	91.9		Yes	Y				0.01		pct
JVE-02SC-0506-110221	11-8273-SR99M	Total solids	4/15/2011	87		Yes	Y				0.01		pct
JVE-02SC-0607-110221	11-8274-SR99N	Total solids	4/15/2011	85.2		Yes	Y				0.01		pct
JVE-03SC-0405-110221	11-8278-SR99R	Total solids	4/15/2011	53		Yes	Y				0.01		pct
JVE-03SC-0506-110221	11-8279-SR99S	Total solids	4/15/2011	51.1		Yes	Y				0.01		pct
JVE-04SC-0001-110221	11-8275-SR99O	Total solids	4/15/2011	53.8		Yes	Y				0.01		pct
JVE-04SC-0102-110221	11-8276-SR99P	Total solids	4/15/2011	77.8		Yes	Y				0.01		pct
JVE-04SC-0203-110221	11-8277-SR99Q	Total solids	4/15/2011	81.9		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-0001-110218	11-8261-SR99A	Total organic carbon	4/18/2011	3.21		Yes	Y				0.020	0.00290	pct
JVE-01SC-0102-110218	11-8262-SR99B	Total organic carbon	4/18/2011	2.5		Yes	Y				0.020	0.00290	pct
JVE-01SC-0203-110218	11-8263-SR99C	Total organic carbon	4/18/2011	0.528		Yes	Y				0.020	0.00290	pct

EMJ014925

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-0304-110218	11-8264-SR99D	Total organic carbon	4/18/2011	0.347	Yes	Y				0.020	0.00290	pct
JVE-01SC-0405-110218	11-8265-SR99E	Total organic carbon	4/18/2011	0.118	Yes	Y				0.020	0.00290	pct
JVE-01SC-0506-110218	11-8266-SR99F	Total organic carbon	4/18/2011	0.292	Yes	Y				0.020	0.00290	pct
JVE-01SC-0607-110218	11-8267-SR99G	Total organic carbon	4/18/2011	0.467	Yes	Y				0.020	0.00290	pct
JVE-02SC-0001-110221	11-8268-SR99H	Total organic carbon	4/18/2011	2.57	Yes	Y				0.020	0.00290	pct
JVE-02SC-0102-110221	11-8269-SR99I	Total organic carbon	4/18/2011	0.153	Yes	Y				0.020	0.00290	pct
JVE-02SC-0203-110221	11-8270-SR99J	Total organic carbon	4/18/2011	0.114	Yes	Y				0.020	0.00290	pct
JVE-02SC-0304-110221	11-8271-SR99K	Total organic carbon	4/18/2011	0.081	Yes	Y				0.020	0.00290	pct
JVE-02SC-0405-110221	11-8272-SR99L	Total organic carbon	4/18/2011	0.101	Yes	Y				0.020	0.00290	pct
JVE-02SC-0506-110221	11-8273-SR99M	Total organic carbon	4/18/2011	0.11	Yes	Y				0.020	0.00290	pct
JVE-02SC-0607-110221	11-8274-SR99N	Total organic carbon	4/18/2011	0.071	Yes	Y				0.020	0.00290	pct
JVE-03SC-0405-110221	11-8278-SR99R	Total organic carbon	4/18/2011	2.21	Yes	Y				0.020	0.00290	pct
JVE-03SC-0506-110221	11-8279-SR99S	Total organic carbon	4/18/2011	2.47	Yes	Y				0.020	0.00290	pct
JVE-04SC-0001-110221	11-8275-SR99O	Total organic carbon	4/18/2011	2.54	Yes	Y				0.020	0.00290	pct
JVE-04SC-0102-110221	11-8276-SR99P	Total organic carbon	4/18/2011	1.66	Yes	Y				0.020	0.00290	pct
JVE-04SC-0203-110221	11-8277-SR99Q	Total organic carbon	4/18/2011	0.167	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-0001-110218	11-8261-SR99A	Aroclor 1248	4/21/2011	12000	Yes	N	Y			12000	520	ug/kg
JVE-01SC-0001-110218	11-8261-SR99A	Aroclor 1232	4/21/2011	1500	Yes	N	U			1500	520	ug/kg
JVE-01SC-0001-110218	11-8261-SR99A	Aroclor 1016	4/21/2011	1500	Yes	N	U			1500	390	ug/kg
JVE-01SC-0001-110218	11-8261-SR99A	Aroclor 1260	4/21/2011	4700	Yes	Y				1500	520	ug/kg
JVE-01SC-0001-110218	11-8261-SR99A	Aroclor 1242	4/21/2011	1500	Yes	N	U			1500	520	ug/kg
JVE-01SC-0001-110218	11-8261-SR99A	Aroclor 1254	4/21/2011	32000	Yes	Y				1500	520	ug/kg
JVE-01SC-0001-110218	11-8261-SR99A	Aroclor 1221	4/21/2011	1500	Yes	N	U			1500	520	ug/kg

EMJ014926

SDG: SR99

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-0102-110218	11-8262-SR99B	Aroclor 1248	4/21/2011	4000		Yes	Y				1400	460	ug/kg
JVE-01SC-0102-110218	11-8262-SR99B	Aroclor 1016	4/21/2011	1400		Yes	N	U			1400	350	ug/kg
JVE-01SC-0102-110218	11-8262-SR99B	Aroclor 1232	4/21/2011	1400		Yes	N	U			1400	460	ug/kg
JVE-01SC-0102-110218	11-8262-SR99B	Aroclor 1221	4/21/2011	1400		Yes	N	U			1400	460	ug/kg
JVE-01SC-0102-110218	11-8262-SR99B	Aroclor 1254	4/21/2011	5100		Yes	Y				1400	460	ug/kg
JVE-01SC-0102-110218	11-8262-SR99B	Aroclor 1260	4/21/2011	1400		Yes	N	U			1400	460	ug/kg
JVE-01SC-0102-110218	11-8262-SR99B	Aroclor 1242	4/21/2011	1400		Yes	N	U			1400	460	ug/kg
JVE-01SC-0203-110218	11-8263-SR99C	Aroclor 1260	4/20/2011	180		Yes	Y				48	16	ug/kg
JVE-01SC-0203-110218	11-8263-SR99C	Aroclor 1242	4/20/2011	48		Yes	N	U			48	16	ug/kg
JVE-01SC-0203-110218	11-8263-SR99C	Aroclor 1016	4/20/2011	48		Yes	N	U			48	12	ug/kg
JVE-01SC-0203-110218	11-8263-SR99C	Aroclor 1248	4/20/2011	360		Yes	N	Y			360	16	ug/kg
JVE-01SC-0203-110218	11-8263-SR99C	Aroclor 1232	4/20/2011	48		Yes	N	U			48	16	ug/kg
JVE-01SC-0203-110218	11-8263-SR99C	Aroclor 1221	4/20/2011	48		Yes	N	U			48	16	ug/kg
JVE-01SC-0203-110218	11-8263-SR99C	Aroclor 1254	4/20/2011	1000		Yes	Y				48	16	ug/kg
JVE-01SC-0304-110218	11-8264-SR99D	Aroclor 1260	4/20/2011	120		Yes	Y				20	6.7	ug/kg
JVE-01SC-0304-110218	11-8264-SR99D	Aroclor 1221	4/20/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-01SC-0304-110218	11-8264-SR99D	Aroclor 1232	4/20/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-01SC-0304-110218	11-8264-SR99D	Aroclor 1248	4/20/2011	98		Yes	N	Y			98	6.7	ug/kg
JVE-01SC-0304-110218	11-8264-SR99D	Aroclor 1016	4/20/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-01SC-0304-110218	11-8264-SR99D	Aroclor 1242	4/20/2011	20		Yes	N	U			20	6.7	ug/kg
JVE-01SC-0304-110218	11-8264-SR99D	Aroclor 1254	4/20/2011	270		Yes	Y				20	6.7	ug/kg
JVE-01SC-0405-110218	11-8265-SR99E	Aroclor 1254	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0405-110218	11-8265-SR99E	Aroclor 1221	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0405-110218	11-8265-SR99E	Aroclor 1248	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0405-110218	11-8265-SR99E	Aroclor 1242	4/20/2011	20		Yes	N	U			20	1.3	ug/kg

EMJ014927

SDG: SR99

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-01SC-0405-110218	11-8265-SR99E	Aroclor 1232	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0405-110218	11-8265-SR99E	Aroclor 1016	4/20/2011	20		Yes	N	U			20	1.0	ug/kg
JVE-01SC-0405-110218	11-8265-SR99E	Aroclor 1260	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0506-110218	11-8266-SR99F	Aroclor 1221	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0506-110218	11-8266-SR99F	Aroclor 1016	4/20/2011	20		Yes	N	U			20	1.0	ug/kg
JVE-01SC-0506-110218	11-8266-SR99F	Aroclor 1242	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0506-110218	11-8266-SR99F	Aroclor 1232	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0506-110218	11-8266-SR99F	Aroclor 1254	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0506-110218	11-8266-SR99F	Aroclor 1260	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0506-110218	11-8266-SR99F	Aroclor 1248	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-01SC-0607-110218	11-8267-SR99G	Aroclor 1242	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-01SC-0607-110218	11-8267-SR99G	Aroclor 1232	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-01SC-0607-110218	11-8267-SR99G	Aroclor 1221	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-01SC-0607-110218	11-8267-SR99G	Aroclor 1254	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-01SC-0607-110218	11-8267-SR99G	Aroclor 1260	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-01SC-0607-110218	11-8267-SR99G	Aroclor 1016	4/20/2011	19		Yes	N	U			19	0.98	ug/kg
JVE-01SC-0607-110218	11-8267-SR99G	Aroclor 1248	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-02SC-0001-110221	11-8268-SR99H	Aroclor 1254	4/20/2011	8100		Yes	Y				790	270	ug/kg
JVE-02SC-0001-110221	11-8268-SR99H	Aroclor 1221	4/20/2011	790		Yes	N	U			790	270	ug/kg
JVE-02SC-0001-110221	11-8268-SR99H	Aroclor 1232	4/20/2011	790		Yes	N	U			790	270	ug/kg
JVE-02SC-0001-110221	11-8268-SR99H	Aroclor 1248	4/20/2011	5900		Yes	N	Y			5900	270	ug/kg
JVE-02SC-0001-110221	11-8268-SR99H	Aroclor 1016	4/20/2011	790		Yes	N	U			790	200	ug/kg
JVE-02SC-0001-110221	11-8268-SR99H	Aroclor 1242	4/20/2011	790		Yes	N	U			790	270	ug/kg
JVE-02SC-0001-110221	11-8268-SR99H	Aroclor 1260	4/20/2011	990		Yes	N	Y			990	270	ug/kg
JVE-02SC-0102-110221	11-8269-SR99I	Aroclor 1242	4/20/2011	20		Yes	N	U			20	6.6	ug/kg

EMJ014928

SDG: SR99

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-02SC-0102-110221	11-8269-SR99I	Aroclor 1016	4/20/2011	20		Yes	N	U			20	5.0	ug/kg
JVE-02SC-0102-110221	11-8269-SR99I	Aroclor 1260	4/20/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-02SC-0102-110221	11-8269-SR99I	Aroclor 1254	4/20/2011	39		Yes	Y				20	6.6	ug/kg
JVE-02SC-0102-110221	11-8269-SR99I	Aroclor 1232	4/20/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-02SC-0102-110221	11-8269-SR99I	Aroclor 1221	4/20/2011	20		Yes	N	U			20	6.6	ug/kg
JVE-02SC-0102-110221	11-8269-SR99I	Aroclor 1248	4/20/2011	96		Yes	Y				20	6.6	ug/kg
JVE-02SC-0203-110221	11-8270-SR99J	Aroclor 1248	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0203-110221	11-8270-SR99J	Aroclor 1016	4/20/2011	20		Yes	N	U			20	1.0	ug/kg
JVE-02SC-0203-110221	11-8270-SR99J	Aroclor 1254	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0203-110221	11-8270-SR99J	Aroclor 1260	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0203-110221	11-8270-SR99J	Aroclor 1232	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0203-110221	11-8270-SR99J	Aroclor 1221	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0203-110221	11-8270-SR99J	Aroclor 1242	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0304-110221	11-8271-SR99K	Aroclor 1221	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0304-110221	11-8271-SR99K	Aroclor 1254	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0304-110221	11-8271-SR99K	Aroclor 1232	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0304-110221	11-8271-SR99K	Aroclor 1248	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0304-110221	11-8271-SR99K	Aroclor 1016	4/20/2011	20		Yes	N	U			20	1.0	ug/kg
JVE-02SC-0304-110221	11-8271-SR99K	Aroclor 1242	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0304-110221	11-8271-SR99K	Aroclor 1260	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-02SC-0405-110221	11-8272-SR99L	Aroclor 1254	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-02SC-0405-110221	11-8272-SR99L	Aroclor 1221	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-02SC-0405-110221	11-8272-SR99L	Aroclor 1232	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-02SC-0405-110221	11-8272-SR99L	Aroclor 1248	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-02SC-0405-110221	11-8272-SR99L	Aroclor 1016	4/20/2011	19		Yes	N	U			19	0.98	ug/kg

EMJ014929

SDG: SR99

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-02SC-0405-110221	11-8272-SR99L	Aroclor 1242	4/20/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-02SC-0405-110221	11-8272-SR99L	Aroclor 1260	4/20/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-02SC-0506-110221	11-8273-SR99M	Aroclor 1260	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0506-110221	11-8273-SR99M	Aroclor 1248	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0506-110221	11-8273-SR99M	Aroclor 1232	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0506-110221	11-8273-SR99M	Aroclor 1016	4/20/2011	20	Yes	N	U			20	1.0	ug/kg
JVE-02SC-0506-110221	11-8273-SR99M	Aroclor 1242	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0506-110221	11-8273-SR99M	Aroclor 1221	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0506-110221	11-8273-SR99M	Aroclor 1254	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0607-110221	11-8274-SR99N	Aroclor 1242	4/21/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0607-110221	11-8274-SR99N	Aroclor 1232	4/21/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0607-110221	11-8274-SR99N	Aroclor 1248	4/21/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0607-110221	11-8274-SR99N	Aroclor 1016	4/21/2011	20	Yes	N	U			20	0.99	ug/kg
JVE-02SC-0607-110221	11-8274-SR99N	Aroclor 1221	4/21/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0607-110221	11-8274-SR99N	Aroclor 1254	4/21/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-02SC-0607-110221	11-8274-SR99N	Aroclor 1260	4/21/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-03SC-0405-110221	11-8278-SR99R	Aroclor 1016	4/21/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-03SC-0405-110221	11-8278-SR99R	Aroclor 1248	4/21/2011	480	Yes	Y				20	6.7	ug/kg
JVE-03SC-0405-110221	11-8278-SR99R	Aroclor 1232	4/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-03SC-0405-110221	11-8278-SR99R	Aroclor 1221	4/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-03SC-0405-110221	11-8278-SR99R	Aroclor 1254	4/21/2011	600	Yes	Y				20	6.7	ug/kg
JVE-03SC-0405-110221	11-8278-SR99R	Aroclor 1260	4/21/2011	210	Yes	Y				20	6.7	ug/kg
JVE-03SC-0405-110221	11-8278-SR99R	Aroclor 1242	4/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-03SC-0506-110221	11-8279-SR99S	Aroclor 1260	4/21/2011	210	Yes	Y				20	6.7	ug/kg
JVE-03SC-0506-110221	11-8279-SR99S	Aroclor 1254	4/21/2011	700	Yes	Y				20	6.7	ug/kg

EMJ014930

SDG: SR99

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-03SC-0506-110221	11-8279-SR99S	Aroclor 1221	4/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-03SC-0506-110221	11-8279-SR99S	Aroclor 1232	4/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-03SC-0506-110221	11-8279-SR99S	Aroclor 1248	4/21/2011	590	Yes	Y				20	6.7	ug/kg
JVE-03SC-0506-110221	11-8279-SR99S	Aroclor 1016	4/21/2011	20	Yes	N	U			20	5.0	ug/kg
JVE-03SC-0506-110221	11-8279-SR99S	Aroclor 1242	4/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-04SC-0001-110221	11-8275-SR99O	Aroclor 1221	4/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-04SC-0001-110221	11-8275-SR99O	Aroclor 1232	4/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-04SC-0001-110221	11-8275-SR99O	Aroclor 1254	4/21/2011	470	Yes	Y				20	6.7	ug/kg
JVE-04SC-0001-110221	11-8275-SR99O	Aroclor 1016	4/21/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-04SC-0001-110221	11-8275-SR99O	Aroclor 1260	4/21/2011	150	Yes	Y				20	6.7	ug/kg
JVE-04SC-0001-110221	11-8275-SR99O	Aroclor 1242	4/21/2011	20	Yes	N	U			20	6.7	ug/kg
JVE-04SC-0001-110221	11-8275-SR99O	Aroclor 1248	4/21/2011	200	Yes	N	Y			200	6.7	ug/kg
JVE-04SC-0102-110221	11-8276-SR99P	Aroclor 1016	4/21/2011	20	Yes	N	U			20	5.1	ug/kg
JVE-04SC-0102-110221	11-8276-SR99P	Aroclor 1232	4/21/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-04SC-0102-110221	11-8276-SR99P	Aroclor 1248	4/21/2011	99	Yes	N	Y			99	6.8	ug/kg
JVE-04SC-0102-110221	11-8276-SR99P	Aroclor 1260	4/21/2011	70	Yes	Y				20	6.8	ug/kg
JVE-04SC-0102-110221	11-8276-SR99P	Aroclor 1221	4/21/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-04SC-0102-110221	11-8276-SR99P	Aroclor 1254	4/21/2011	160	Yes	Y				20	6.8	ug/kg
JVE-04SC-0102-110221	11-8276-SR99P	Aroclor 1242	4/21/2011	20	Yes	N	U			20	6.8	ug/kg
JVE-04SC-0203-110221	11-8277-SR99Q	Aroclor 1248	4/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-04SC-0203-110221	11-8277-SR99Q	Aroclor 1232	4/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-04SC-0203-110221	11-8277-SR99Q	Aroclor 1221	4/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-04SC-0203-110221	11-8277-SR99Q	Aroclor 1254	4/21/2011	22	Yes	Y				19	6.6	ug/kg
JVE-04SC-0203-110221	11-8277-SR99Q	Aroclor 1242	4/21/2011	19	Yes	N	U			19	6.6	ug/kg
JVE-04SC-0203-110221	11-8277-SR99Q	Aroclor 1016	4/21/2011	19	Yes	N	U			19	4.9	ug/kg

EMJ014931

SDG: SR99

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-04SC-0203-110221	11-8277-SR99Q	Aroclor 1260	4/21/2011	32	Yes	Y				19	6.6	ug/kg

EMJ014932

SDG: SS00

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0506-110218	11-8285-SS00D	Total solids	4/15/2011	66	Yes	Y				0.01		pct
JVE-07SC-0607-110218	11-8286-SS00E	Total solids	4/15/2011	73.1	Yes	Y				0.01		pct
JVE-07SC-0708-110218	11-8287-SS00F	Total solids	4/15/2011	79.1	Yes	Y				0.01		pct
JVE-207SC-0102-110216	11-8282-SS00A	Total solids	4/15/2011	48	Yes	Y				0.01		pct
JVE-210SC-0001-110216	11-8284-SS00C	Total solids	4/15/2011	47.6	Yes	Y				0.01		pct
JVE-215SC-0001-110216	11-8283-SS00B	Total solids	4/15/2011	47.5	Yes	Y				0.01		pct
JVE-216SC-0708-110218	11-8289-SS00H	Total solids	4/15/2011	86.9	Yes	Y				0.01		pct
JVE-216SC-0809-110218	11-8290-SS00I	Total solids	4/15/2011	85.2	Yes	Y				0.01		pct
JVE-309SC-0304-110217	11-8292-SS00K	Total solids	4/15/2011	84.6	Yes	Y				0.01		pct
JVE-316SC-0304-110217	11-8293-SS00L	Total solids	4/15/2011	72.3	Yes	Y				0.01		pct
JVE-320SC-0304-110217	11-8291-SS00J	Total solids	4/15/2011	66.4	Yes	Y				0.01		pct
JVE-322SC-0607-110218	11-8288-SS00G	Total solids	4/15/2011	61.2	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0506-110218	11-8285-SS00D	Total organic carbon	4/18/2011	1.44	Yes	Y				0.020	0.00290	pct
JVE-07SC-0607-110218	11-8286-SS00E	Total organic carbon	4/18/2011	0.825	Yes	Y				0.020	0.00290	pct
JVE-07SC-0708-110218	11-8287-SS00F	Total organic carbon	4/18/2011	0.396	Yes	Y				0.020	0.00290	pct
JVE-207SC-0102-110216	11-8282-SS00A	Total organic carbon	4/18/2011	2.03	Yes	Y				0.020	0.00290	pct
JVE-210SC-0001-110216	11-8284-SS00C	Total organic carbon	4/18/2011	2.62	Yes	Y				0.020	0.00290	pct
JVE-215SC-0001-110216	11-8283-SS00B	Total organic carbon	4/18/2011	2.26	Yes	Y				0.020	0.00290	pct
JVE-216SC-0708-110218	11-8289-SS00H	Total organic carbon	4/18/2011	0.12	Yes	Y				0.020	0.00290	pct
JVE-216SC-0809-110218	11-8290-SS00I	Total organic carbon	4/18/2011	0.16	Yes	Y				0.020	0.00290	pct
JVE-309SC-0304-110217	11-8292-SS00K	Total organic carbon	4/18/2011	0.206	Yes	Y				0.020	0.00290	pct
JVE-316SC-0304-110217	11-8293-SS00L	Total organic carbon	4/18/2011	1.78	Yes	Y				0.020	0.00290	pct
JVE-320SC-0304-110217	11-8291-SS00J	Total organic carbon	4/18/2011	1.91	Yes	Y				0.020	0.00290	pct

EMJ014933

SDG: SS00

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-322SC-0607-110218	11-8288-SS00G	Total organic carbon	4/18/2011	2.79		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0506-110218	11-8285-SS00D	Aroclor 1248	4/20/2011	19		Yes	N	U	UJ	5	19	1.3	ug/kg
JVE-07SC-0506-110218	11-8285-SS00D	Aroclor 1016	4/20/2011	19		Yes	N	U			19	0.98	ug/kg
JVE-07SC-0506-110218	11-8285-SS00D	Aroclor 1221	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-07SC-0506-110218	11-8285-SS00D	Aroclor 1254	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-07SC-0506-110218	11-8285-SS00D	Aroclor 1260	4/20/2011	27		Yes	Y		J	5	19	1.3	ug/kg
JVE-07SC-0506-110218	11-8285-SS00D	Aroclor 1242	4/20/2011	19		Yes	N	U	UJ	5	19	1.3	ug/kg
JVE-07SC-0506-110218	11-8285-SS00D	Aroclor 1232	4/20/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-07SC-0607-110218	11-8286-SS00E	Aroclor 1016	4/20/2011	20		Yes	N	U			20	1.0	ug/kg
JVE-07SC-0607-110218	11-8286-SS00E	Aroclor 1242	4/20/2011	20		Yes	N	U	UJ	5	20	1.3	ug/kg
JVE-07SC-0607-110218	11-8286-SS00E	Aroclor 1248	4/20/2011	20		Yes	N	U	UJ	5	20	1.3	ug/kg
JVE-07SC-0607-110218	11-8286-SS00E	Aroclor 1232	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-07SC-0607-110218	11-8286-SS00E	Aroclor 1221	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-07SC-0607-110218	11-8286-SS00E	Aroclor 1254	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-07SC-0607-110218	11-8286-SS00E	Aroclor 1260	4/20/2011	30		Yes	Y		J	5	20	1.3	ug/kg
JVE-07SC-0708-110218	11-8287-SS00F	Aroclor 1260	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-07SC-0708-110218	11-8287-SS00F	Aroclor 1254	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-07SC-0708-110218	11-8287-SS00F	Aroclor 1221	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-07SC-0708-110218	11-8287-SS00F	Aroclor 1232	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-07SC-0708-110218	11-8287-SS00F	Aroclor 1248	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-07SC-0708-110218	11-8287-SS00F	Aroclor 1016	4/20/2011	20		Yes	N	U			20	1.0	ug/kg
JVE-07SC-0708-110218	11-8287-SS00F	Aroclor 1242	4/20/2011	20		Yes	N	U			20	1.3	ug/kg
JVE-207SC-0102-110216	11-8282-SS00A	Aroclor 1221	4/20/2011	20		Yes	N	U			20	1.3	ug/kg

EMJ014934

SDG: SS00

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-207SC-0102-110216	11-8282-SS00A	Aroclor 1232	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-207SC-0102-110216	11-8282-SS00A	Aroclor 1248	4/20/2011	80	Yes	Y		J	5	20	1.3	ug/kg
JVE-207SC-0102-110216	11-8282-SS00A	Aroclor 1016	4/20/2011	20	Yes	N	U			20	1.0	ug/kg
JVE-207SC-0102-110216	11-8282-SS00A	Aroclor 1242	4/20/2011	20	Yes	N	U	UJ	5	20	1.3	ug/kg
JVE-207SC-0102-110216	11-8282-SS00A	Aroclor 1254	4/20/2011	120	Yes	Y				20	1.3	ug/kg
JVE-207SC-0102-110216	11-8282-SS00A	Aroclor 1260	4/20/2011	64	Yes	Y		J	5	20	1.3	ug/kg
JVE-210SC-0001-110216	11-8284-SS00C	Aroclor 1260	4/20/2011	64	Yes	Y		J	5	20	1.4	ug/kg
JVE-210SC-0001-110216	11-8284-SS00C	Aroclor 1254	4/20/2011	87	Yes	Y				20	1.4	ug/kg
JVE-210SC-0001-110216	11-8284-SS00C	Aroclor 1221	4/20/2011	20	Yes	N	U			20	1.4	ug/kg
JVE-210SC-0001-110216	11-8284-SS00C	Aroclor 1232	4/20/2011	20	Yes	N	U			20	1.4	ug/kg
JVE-210SC-0001-110216	11-8284-SS00C	Aroclor 1248	4/20/2011	50	Yes	Y		J	5	20	1.4	ug/kg
JVE-210SC-0001-110216	11-8284-SS00C	Aroclor 1016	4/20/2011	20	Yes	N	U			20	1.0	ug/kg
JVE-210SC-0001-110216	11-8284-SS00C	Aroclor 1242	4/20/2011	20	Yes	N	U	UJ	5	20	1.4	ug/kg
JVE-215SC-0001-110216	11-8283-SS00B	Aroclor 1248	4/20/2011	59	Yes	N	Y	UJ	5	59	1.3	ug/kg
JVE-215SC-0001-110216	11-8283-SS00B	Aroclor 1016	4/20/2011	20	Yes	N	U			20	1.0	ug/kg
JVE-215SC-0001-110216	11-8283-SS00B	Aroclor 1260	4/20/2011	62	Yes	Y		J	5	20	1.3	ug/kg
JVE-215SC-0001-110216	11-8283-SS00B	Aroclor 1221	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-215SC-0001-110216	11-8283-SS00B	Aroclor 1254	4/20/2011	140	Yes	Y				20	1.3	ug/kg
JVE-215SC-0001-110216	11-8283-SS00B	Aroclor 1242	4/20/2011	20	Yes	N	U	UJ	5	20	1.3	ug/kg
JVE-215SC-0001-110216	11-8283-SS00B	Aroclor 1232	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-216SC-0708-110218	11-8289-SS00H	Aroclor 1242	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-216SC-0708-110218	11-8289-SS00H	Aroclor 1260	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-216SC-0708-110218	11-8289-SS00H	Aroclor 1016	4/20/2011	20	Yes	N	U			20	0.99	ug/kg
JVE-216SC-0708-110218	11-8289-SS00H	Aroclor 1248	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-216SC-0708-110218	11-8289-SS00H	Aroclor 1232	4/20/2011	20	Yes	N	U			20	1.3	ug/kg

EMJ014935

SDG: SS00

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-216SC-0708-110218	11-8289-SS00H	Aroclor 1221	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-216SC-0708-110218	11-8289-SS00H	Aroclor 1254	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-216SC-0809-110218	11-8290-SS00I	Aroclor 1254	4/20/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-216SC-0809-110218	11-8290-SS00I	Aroclor 1016	4/20/2011	19	Yes	N	U			19	0.97	ug/kg
JVE-216SC-0809-110218	11-8290-SS00I	Aroclor 1221	4/20/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-216SC-0809-110218	11-8290-SS00I	Aroclor 1232	4/20/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-216SC-0809-110218	11-8290-SS00I	Aroclor 1248	4/20/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-216SC-0809-110218	11-8290-SS00I	Aroclor 1242	4/20/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-216SC-0809-110218	11-8290-SS00I	Aroclor 1260	4/20/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1248	4/21/2011	950	No	N	U			950	320	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1016	4/21/2011	950	No	N	U			950	240	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1232	4/21/2011	950	No	N	U			950	320	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1221	4/21/2011	950	No	N	U			950	320	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1254	4/21/2011	950	No	N	U			950	320	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1260	4/21/2011	950	No	N	U			950	320	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1242	4/21/2011	950	No	N	U			950	320	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1242	4/27/2011	32	Yes	N	U			32	2.4	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1016	4/27/2011	32	Yes	N	U			32	1.9	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1248	4/27/2011	32	Yes	N	U			32	2.4	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1232	4/27/2011	32	Yes	N	U			32	2.4	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1221	4/27/2011	32	Yes	N	U			32	2.4	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1254	4/27/2011	32	Yes	N	U			32	2.4	ug/kg
JVE-309SC-0304-110217	11-8292-SS00K	Aroclor 1260	4/27/2011	32	Yes	N	U			32	2.4	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1248	4/21/2011	1100	No	N	U			1100	380	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1016	4/21/2011	1100	No	N	U			1100	290	ug/kg

EMJ014936

SDG: SS00

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1260	4/21/2011	1100	No	N	U			1100	380	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1254	4/21/2011	1100	No	N	U			1100	380	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1221	4/21/2011	1100	No	N	U			1100	380	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1232	4/21/2011	1100	No	N	U			1100	380	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1242	4/21/2011	1100	No	N	U			1100	380	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1254	4/28/2011	730	Yes	Y				160	12	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1221	4/28/2011	160	Yes	N	U			160	12	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1232	4/28/2011	160	Yes	N	U			160	12	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1016	4/28/2011	160	Yes	N	U			160	9.9	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1242	4/28/2011	160	Yes	N	U			160	12	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1260	4/28/2011	260	Yes	Y				160	12	ug/kg
JVE-316SC-0304-110217	11-8293-SS00L	Aroclor 1248	4/28/2011	560	Yes	Y	P			160	12	ug/kg
JVE-320SC-0304-110217	11-8291-SS00J	Aroclor 1248	4/20/2011	29	Yes	N	Y			29	1.3	ug/kg
JVE-320SC-0304-110217	11-8291-SS00J	Aroclor 1232	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-320SC-0304-110217	11-8291-SS00J	Aroclor 1016	4/20/2011	20	Yes	N	U			20	1.0	ug/kg
JVE-320SC-0304-110217	11-8291-SS00J	Aroclor 1242	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-320SC-0304-110217	11-8291-SS00J	Aroclor 1254	4/20/2011	86	Yes	Y				20	1.3	ug/kg
JVE-320SC-0304-110217	11-8291-SS00J	Aroclor 1260	4/20/2011	84	Yes	Y				20	1.3	ug/kg
JVE-320SC-0304-110217	11-8291-SS00J	Aroclor 1221	4/20/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-322SC-0607-110218	11-8288-SS00G	Aroclor 1254	4/21/2011	1000	Yes	Y		J	5	400	27	ug/kg
JVE-322SC-0607-110218	11-8288-SS00G	Aroclor 1221	4/21/2011	400	Yes	N	U			400	27	ug/kg
JVE-322SC-0607-110218	11-8288-SS00G	Aroclor 1232	4/21/2011	400	Yes	N	U			400	27	ug/kg
JVE-322SC-0607-110218	11-8288-SS00G	Aroclor 1248	4/21/2011	1300	Yes	Y		J	5	400	27	ug/kg
JVE-322SC-0607-110218	11-8288-SS00G	Aroclor 1016	4/21/2011	400	Yes	N	U			400	20	ug/kg
JVE-322SC-0607-110218	11-8288-SS00G	Aroclor 1242	4/21/2011	400	Yes	N	U			400	27	ug/kg

EMJ014937

SDG: SS00

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-322SC-0607-110218	11-8288-SS00G	Aroclor 1260	4/21/2011	400	Yes	N	U	UJ	5	400	27	ug/kg

EMJ014938

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 17 through February 18, 2011
LDC Report Date:	May 24, 2011
Matrix:	Sediments
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III & IV
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	ST93

Sample Identification

JVE-309SC-0203-110217**
JVE-320SC-0203-110217
JVE-314SC-0304-110218**
JVE-216SC-0607-110218
JVE-07SC-0405-110218**
JVE-314SC-0304-110218MS
JVE-314SC-0304-110218MSD

**Indicates sample underwent EPA Level IV review.

Introduction

This data review covers 7 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Samples indicated by a double asterisk on the front cover underwent an EPA Level IV review. An EPA Level III review was performed on all other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable for samples on which an EPA Level IV review was performed. Raw data were not evaluated for the samples on which a Level III review was performed.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

Retention times (RT) of all compounds in the calibration standards were within QC limits for samples on which an EPA Level IV review was performed. Raw data were not evaluated for the samples on which a Level III review was performed.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria for samples on which an EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which an EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III and Level IV data validation all results are considered valid and usable for all purposes.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG ST93

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG ST93

No Sample Data Qualified in this SDG

LDC #: 25449B3b

SDG #: ST93

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 5/23/11

Page: 1 of 1

Reviewer:

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/17 — 2/18/11
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	% RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	Not reviewed for Level III validation.
XIII.	Compound quantitation and reported CRQLs	A	Not reviewed for Level III validation. Acceptable IS.
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:** Indicates sample underwent Level IV validation

Sediments

1 +	JVE-309SC-0203-110217**	11	MB-043011	21		31	
2 +	JVE-320SC-0203-110217	12		22		32	
3	JVE-314SC-0304-110218**	13		23		33	
4 +	JVE-216SC-0607-110218	14		24		34	
5 +	JVE-07SC-0405-110218**	15		25		35	
6	JVE-314SC-0304-110218MS	16		26		36	
7	JVE-314SC-0304-110218MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 25449B3b
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer: K

Method: ✓ GC ____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25449B3b
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FZ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25449B3b
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: PJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (0.25 std)	Recalculated CF (0.25 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	4/18/11	Aroclor-1260-1 ZB5	0.0880	0.0880	0.0844	0.0844	3.4	3.4
			↓ ZB35	0.0550	0.0550	0.0593	0.0593	12.2	12.2
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

INICI C ISB

EMJ014947

LDC #: 35449B3b
SDG #: w conn

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: K

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(Ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV	5/3/11	Aroclor 1260 - 1 ZB5	250.0	260.0	260.0	4.0	4.0
	14:32		↓ ZB35	250.0	228.6	228.6	8.6	8.6
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCLC.1S

EMJ014948

LDC #: 44783B

SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1

Reviewer: FT

2nd reviewer: [illegible]

METHOD: ~~GC~~ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1 5X

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
DCB	ZB5	40	35	88.0	88.0	0
TCMX	ZB35	40	32	80.5	80.0	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

SURRCALCNew.wpd

EMJ014949

LDC #: 25 74 2009
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: ___ GC ___ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 6 + 7

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Aroclor 1260	94.0	94.3	ND	94.0	94.3	79.5	79.5	74.5	74.5	6.1	6.1

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

MSDCLCNew.wpd

LDC #: 25449B3b
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = I LCS - LCSD I * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: lcs-043011

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
Aroclor 1260	101	NA	85.9	NA	85.0	85.0				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

V:\Validation Worksheets\GC\LCSDCLC_GC.wpd

EMJ014951

LDC #: 25449B3b
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ___ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #1 Compound Name Aroclor 1260

Final Concentration = (107)(2.5)(5) / (12.9)

= 103.7 ug/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications
	ZB35	Aroclor 1260-1 = (477562)(80) / (6004808)(0.0593)		= 107.3	
	Aroclor - 1260	-1 = 107.3			
		-3 = 103.2			
		4 = 110.4			
		Ave = 107			

Comments:

SAMPCALew.wpd

EMJ014952

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 17 through February 18, 2011
LDC Report Date:	May 27, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III & IV
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	ST93

Sample Identification

JVE-309SC-0203-110217**
JVE-320SC-0203-110217
JVE-314SC-0304-110218**
JVE-216SC-0607-110218
JVE-07SC-0405-110218**
JVE-309SC-0203-110217MS
JVE-309SC-0203-110217DUP
JVE-309SC-0203-110217TRP

**Indicates sample underwent EPA Level IV review

Introduction

This data review covers 8 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per PLUMB Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Samples indicated by a double asterisk on the front cover underwent an EPA Level IV review. An EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable for samples on which an EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III and Level IV data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG ST93

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG ST93

No Sample Data Qualified in this SDG

LDC #: 25449B6

SDG #: ST93

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III /IV

Date: 5-17-11

Page: 1 of 1

Reviewer: CL

2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/17/11 - 2/18/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates /Triplicates	A	DUP, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	A	Not reviewed for Level III validation.
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:** Indicates sample underwent Level IV validation

1	JVE-309SC-0203-110217** (Sediment)	11		21	PBS	31	
2	JVE-320SC-0203-110217	12		22		32	
3	JVE-314SC-0304-110218**	13		23		33	
4	JVE-216SC-0607-110218	14		24		34	
5	JVE-07SC-0405-110218**	15		25		35	
6	JVE-309SC-0203-110217MS	16		26		36	
7	JVE-309SC-0203-110217~~MSD~~ DUP	17		27		37	
8	JVE-309SC-0203-110217~~DUP~~ TRP	18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

25449B6W.wpd

LDC #: 25449B6

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: CC
2nd Reviewer: [illegible]

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)	✓			
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25449B6

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: W

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
X. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 25449B6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-5		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC 6		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
7		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
8		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

LDC #: 25449B6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: GR
2nd Reviewer: [illegible]

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of TOC was recalculated. Calibration date: 4/19/11

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/C)	Response	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	TOC	s1	0	30053	0.99955	0.99955	Y
		s2	8.00	1996979			
		s3	20.00	6459582			
		s4	40.00	12427234			
		s5	100.00	31033376			
Calibration verification		ICV	1000	960	96	96.00	
Calibration verification		CCV		956	95.6	95.60	
Calibration verification							

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

EMJ014962

LDC #: 25449B6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: QR
2nd Reviewer: [illegible]

METHOD: Inorganics, Method See cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (~~units~~) %	True / D (~~units~~) %	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	TOC	2.73	2.99	91.3	91.3	Y
6	Matrix spike sample	TOC	(SSR-SR) 0.503	0.653	77.9	77.9	↓
8	~~Duplicate~~ sample Triplicate	TS	77.90	78.10 79.20	0.9	0.9	↓

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

TOTCLC.6

EMJ014963

LDC #: 25449B6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: [illegible]

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for TS reported with a positive detect were recalculated and verified using the following equation:

Concentration =

$$\frac{\text{Dry} - \text{Tare}}{\text{Sample} - \text{Tare}} \times 100$$

Recalculation:

$$\frac{4.2494g - 1.0901g}{5.1467g - 1.0901g} \times 100 = 77.88\%$$

#	Sample ID	Analyte	Reported Concentration (%)	Calculated Concentration (%)	Acceptable (Y/N)
	1	TS	77.90	77.90	Y
		TOC	0.551	0.551	↓

Note:

RECALC.6

Jorgensen Forge Facility - LDC 25449

SDG: ST93

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0405-110218	11-9366-ST93E	Total solids	4/28/2011	59.5		Yes	Y				0.01		pct
JVE-216SC-0607-110218	11-9365-ST93D	Total solids	4/28/2011	70.9		Yes	Y				0.01		pct
JVE-309SC-0203-110217	11-9362-ST93A	Total solids	4/28/2011	77.9		Yes	Y				0.01		pct
JVE-314SC-0304-110218	11-9364-ST93C	Total solids	4/28/2011	85.7		Yes	Y				0.01		pct
JVE-320SC-0203-110217	11-9363-ST93B	Total solids	4/28/2011	57.6		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0405-110218	11-9366-ST93E	Total organic carbon	5/3/2011	1.29		Yes	Y				0.020	0.00290	pct
JVE-216SC-0607-110218	11-9365-ST93D	Total organic carbon	5/3/2011	1.63		Yes	Y				0.020	0.00290	pct
JVE-309SC-0203-110217	11-9362-ST93A	Total organic carbon	5/3/2011	0.551		Yes	Y				0.020	0.00290	pct
JVE-314SC-0304-110218	11-9364-ST93C	Total organic carbon	5/3/2011	0.659		Yes	Y				0.020	0.00290	pct
JVE-320SC-0203-110217	11-9363-ST93B	Total organic carbon	5/3/2011	2.95		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0405-110218	11-9366-ST93E	Aroclor 1232	5/3/2011	19		Yes	N	U			19	6.4	ug/kg
JVE-07SC-0405-110218	11-9366-ST93E	Aroclor 1242	5/3/2011	19		Yes	N	U			19	6.4	ug/kg
JVE-07SC-0405-110218	11-9366-ST93E	Aroclor 1248	5/3/2011	19		Yes	N	U			19	6.4	ug/kg
JVE-07SC-0405-110218	11-9366-ST93E	Aroclor 1221	5/3/2011	19		Yes	N	U			19	6.4	ug/kg
JVE-07SC-0405-110218	11-9366-ST93E	Aroclor 1016	5/3/2011	19		Yes	N	U			19	4.8	ug/kg
JVE-07SC-0405-110218	11-9366-ST93E	Aroclor 1254	5/3/2011	19		Yes	N	U			19	6.4	ug/kg
JVE-07SC-0405-110218	11-9366-ST93E	Aroclor 1260	5/3/2011	87		Yes	Y				19	6.4	ug/kg
JVE-216SC-0607-110218	11-9365-ST93D	Aroclor 1254	5/3/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-216SC-0607-110218	11-9365-ST93D	Aroclor 1221	5/3/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-216SC-0607-110218	11-9365-ST93D	Aroclor 1232	5/3/2011	19		Yes	N	U			19	6.6	ug/kg

EMJ014965

SDG: ST93

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-216SC-0607-110218	11-9365-ST93D	Aroclor 1248	5/3/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-216SC-0607-110218	11-9365-ST93D	Aroclor 1260	5/3/2011	41		Yes	Y				19	6.6	ug/kg
JVE-216SC-0607-110218	11-9365-ST93D	Aroclor 1016	5/3/2011	19		Yes	N	U			19	4.9	ug/kg
JVE-216SC-0607-110218	11-9365-ST93D	Aroclor 1242	5/3/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-309SC-0203-110217	11-9362-ST93A	Aroclor 1242	5/3/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-309SC-0203-110217	11-9362-ST93A	Aroclor 1016	5/3/2011	19		Yes	N	U			19	4.9	ug/kg
JVE-309SC-0203-110217	11-9362-ST93A	Aroclor 1248	5/3/2011	150		Yes	N	Y			150	6.6	ug/kg
JVE-309SC-0203-110217	11-9362-ST93A	Aroclor 1232	5/3/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-309SC-0203-110217	11-9362-ST93A	Aroclor 1221	5/3/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-309SC-0203-110217	11-9362-ST93A	Aroclor 1260	5/3/2011	100		Yes	Y				19	6.6	ug/kg
JVE-309SC-0203-110217	11-9362-ST93A	Aroclor 1254	5/3/2011	300		Yes	Y				19	6.6	ug/kg
JVE-314SC-0304-110218	11-9364-ST93C	Aroclor 1232	5/3/2011	19		Yes	N	U			19	6.5	ug/kg
JVE-314SC-0304-110218	11-9364-ST93C	Aroclor 1260	5/3/2011	19		Yes	N	U			19	6.5	ug/kg
JVE-314SC-0304-110218	11-9364-ST93C	Aroclor 1221	5/3/2011	19		Yes	N	U			19	6.5	ug/kg
JVE-314SC-0304-110218	11-9364-ST93C	Aroclor 1248	5/3/2011	19		Yes	N	U			19	6.5	ug/kg
JVE-314SC-0304-110218	11-9364-ST93C	Aroclor 1016	5/3/2011	19		Yes	N	U			19	4.8	ug/kg
JVE-314SC-0304-110218	11-9364-ST93C	Aroclor 1242	5/3/2011	19		Yes	N	U			19	6.5	ug/kg
JVE-314SC-0304-110218	11-9364-ST93C	Aroclor 1254	5/3/2011	19		Yes	N	U			19	6.5	ug/kg
JVE-320SC-0203-110217	11-9363-ST93B	Aroclor 1254	5/3/2011	970		Yes	Y				19	6.6	ug/kg
JVE-320SC-0203-110217	11-9363-ST93B	Aroclor 1260	5/3/2011	810		Yes	Y				19	6.6	ug/kg
JVE-320SC-0203-110217	11-9363-ST93B	Aroclor 1221	5/3/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-320SC-0203-110217	11-9363-ST93B	Aroclor 1232	5/3/2011	19		Yes	N	U			19	6.6	ug/kg
JVE-320SC-0203-110217	11-9363-ST93B	Aroclor 1248	5/3/2011	290		Yes	N	Y			290	6.6	ug/kg
JVE-320SC-0203-110217	11-9363-ST93B	Aroclor 1016	5/3/2011	19		Yes	N	U			19	5.0	ug/kg
JVE-320SC-0203-110217	11-9363-ST93B	Aroclor 1242	5/3/2011	19		Yes	N	U			19	6.6	ug/kg

EMJ014966

Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437 **Web** www.lab-data.com **Fax** 760.634.0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

June 23, 2011

SUBJECT: Jorgensen Forge Facility, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on June 10, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 25647:

SDG #	**Fraction**
SX21	Polychlorinated Biphenyls, Wet Chemistry

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

V:\LOGIN\Anchor\Jorgensen\25647COV.wpd

0 pages-EX

Attachment 1

EDD 90/10

LDC #25647 (Anchor Environmental-Seattle WA /Jorgensen Forge Facility)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082B)		TOC (Plumb)		Total Solids (160.3)																													
Matrix:	Water/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	SX21	06/10/11	07/01/11	0	3	0	3	0	3																												
Total	A/SC			0	3	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

25647ST.wpd

EMJ014968

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	June 16, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SX21

Sample Identification

JVE-216SC-0506-110218
JVE-314SC-0203-110218
JVE-07SC-0304-110218
JVE-314SC-0203-110218MS
JVE-314SC-0203-110218MSD

Introduction

This data review covers 5 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082B for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SX21

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SX21

No Sample Data Qualified in this SDG

LDC #: 25647A3b

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 6-16-11

SDG #: SX21

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer:

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082) B

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All sediment

1	JVE-216SC-0506-110218	11		21		31	052711-BLK
2	JVE-314SC-0203-110218	12		22		32	
3	JVE-07SC-0304-110218	13		23		33	
4	JVE-314SC-0203-110218MS	14		24		34	
5	JVE-314SC-0203-110218MSD	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	June 15, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SX21

Sample Identification

JVE-216SC-0506-110218
JVE-314SC-0203-110218
JVE-07SC-0304-110218
JVE-216SC-0506-110218MS
JVE-216SC-0506-110218DUP
JVE-216SC-0506-110218TRP

Introduction

This data review covers 6 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Plumb Method for Total Organic Carbon and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) and triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SX21

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SX21

No Sample Data Qualified in this SDG

LDC #: 25647A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/14/11

SDG #: SX21 Level III Page: 1 of 1

Laboratory: Analytical Resources, Inc. Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates/Triplicates	A	Dup, Trip
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Sediment

1	JVE-216SC-0506-110218	11		21	PBS	31	
2	JVE-314SC-0203-110218	12		22		32	
3	JVE-07SC-0304-110218	13		23		33	
4	JVE-216SC-0506-110218MS	14		24		34	
5	JVE-216SC-0506-110218~~MSD~~ DUP	15		25		35	
6	JVE-216SC-0506-110218~~DUP~~ TRP	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25667A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-3		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 TS
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC: 4		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
5,6		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 TS
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

Jorgensen Forge Facility - LDC 25647

SDG: SX21

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0304-110218	11-11072-SX21C	Total solids	5/18/2011	55.8	Yes	Y				0.01		pct
JVE-216SC-0506-110218	11-11070-SX21A	Total solids	5/18/2011	65	Yes	Y				0.01		pct
JVE-314SC-0203-110218	11-11071-SX21B	Total solids	5/18/2011	77.2	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0304-110218	11-11072-SX21C	Total organic carbon	5/20/2011	2.55	Yes	Y				0.020	0.00290	pct
JVE-216SC-0506-110218	11-11070-SX21A	Total organic carbon	5/20/2011	2.05	Yes	Y				0.020	0.00290	pct
JVE-314SC-0203-110218	11-11071-SX21B	Total organic carbon	5/20/2011	0.815	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0304-110218	11-11072-SX21C	Aroclor 1016	5/31/2011	20	Yes	N	U			20	0.99	ug/kg
JVE-07SC-0304-110218	11-11072-SX21C	Aroclor 1248	5/31/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-07SC-0304-110218	11-11072-SX21C	Aroclor 1232	5/31/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-07SC-0304-110218	11-11072-SX21C	Aroclor 1221	5/31/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-07SC-0304-110218	11-11072-SX21C	Aroclor 1254	5/31/2011	39	Yes	N	Y			39	1.3	ug/kg
JVE-07SC-0304-110218	11-11072-SX21C	Aroclor 1260	5/31/2011	170	Yes	Y				20	1.3	ug/kg
JVE-07SC-0304-110218	11-11072-SX21C	Aroclor 1242	5/31/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-216SC-0506-110218	11-11070-SX21A	Aroclor 1232	5/31/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-216SC-0506-110218	11-11070-SX21A	Aroclor 1260	5/31/2011	130	Yes	Y				19	6.5	ug/kg
JVE-216SC-0506-110218	11-11070-SX21A	Aroclor 1221	5/31/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-216SC-0506-110218	11-11070-SX21A	Aroclor 1248	5/31/2011	210	Yes	Y				19	6.5	ug/kg
JVE-216SC-0506-110218	11-11070-SX21A	Aroclor 1016	5/31/2011	19	Yes	N	U			19	4.8	ug/kg
JVE-216SC-0506-110218	11-11070-SX21A	Aroclor 1242	5/31/2011	19	Yes	N	U			19	6.5	ug/kg
JVE-216SC-0506-110218	11-11070-SX21A	Aroclor 1254	5/31/2011	340	Yes	Y				19	6.5	ug/kg

EMJ014982

SDG: SX21

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-314SC-0203-110218	11-11071-SX21B	Aroclor 1242	5/31/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-314SC-0203-110218	11-11071-SX21B	Aroclor 1016	5/31/2011	19	Yes	N	U			19	0.99	ug/kg
JVE-314SC-0203-110218	11-11071-SX21B	Aroclor 1248	5/31/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-314SC-0203-110218	11-11071-SX21B	Aroclor 1232	5/31/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-314SC-0203-110218	11-11071-SX21B	Aroclor 1221	5/31/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-314SC-0203-110218	11-11071-SX21B	Aroclor 1254	5/31/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-314SC-0203-110218	11-11071-SX21B	Aroclor 1260	5/31/2011	19	Yes	N	U			19	1.3	ug/kg

EMJ014983

Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437 **Web** www.lab-data.com **Fax** 760.634.0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

June 24, 2011

SUBJECT: Jorgensen Forge Facility, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on June 15, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 25671:

SDG #	**Fraction**
SZ26	Polychlorinated Biphenyls, Wet Chemistry

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

V:\LOGIN\Anchor\Jorgensen\25671COV.wpd

0 pages-EX

Attachment 1

EDD 90/10

LDC #25671 (Anchor Environmental-Seattle WA /Jorgensen Forge Facility)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082B)		TOC (Plumb)		Total Solids (160.3)																													
Matrix:	Water/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	SZ26	06/15/11	07/06/11	0	4	0	4	0	4																												
Total	A/SC			0	4	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

25671ST.wpd

EMJ014985

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	June 17, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SZ26

Sample Identification

JVE-314SC-0001-110218
JVE-314SC-0102-110218
JVE-07SC-0203-110218
JVE-07SC-0304-110218
JVE-314SC-0102-110218MS
JVE-314SC-0102-110218MSD

Introduction

This data review covers 6 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082B for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Affected Compound	Flag	A or P
JVE-314SC-0102-110218MS/MSD (JVE-314SC-0102-110218)	Aroclor-1260	31.2 (50-140)	43.3 (50-140)	-	Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS/MSD %R problems, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level III data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG SZ26

SDG	Sample	Compound	Flag	A or P	Reason
SZ26	JVE-314SC-0102-110218	Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG SZ26

No Sample Data Qualified in this SDG

LDC #: 25671A3b **VALIDATION COMPLETENESS WORKSHEET** Date: 6-17-11
SDG #: SZ26 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082) B

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes /IS	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All sediment

1	JVE-314SC-~~001~~ 0001-110218	11		21		31	060611-BLK
2	JVE-314SC-0102-110218	12		22		32	
3	JVE-07SC-0203-110218	13		23		33	
4	JVE-07SC-0304-110218	14		24		34	
5	JVE-314SC-0102-110218MS	15		25		35	
6	JVE-314SC-0102-110218MSD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG Chlordane
B beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH Chlordane (Technical)
C delta-BHC	K. Endrin	S alpha-Chlordane	AA Aroclor-1254	II.
D gamma-BHC	L Endosulfan II	T gamma-Chlordane	BB Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V Aroclor-1016	DD 2,4'-DDE	LL
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H Endosulfan I	P Methoxychlor	X Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:

EMJ014993

LDC #: 25671A3b
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: TM
2nd Reviewer: [illegible]

METHOD: X GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	5/6	Aroclor 1260	31.2 (50-140)	43.3 (50-140)	( )	2	J/UJ/A
			( )	( )	( )		(also qual Y, Z, AA)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

MSDNew.wpd

EMJ014994

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	June 22, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	SZ26

Sample Identification

JVE-314SC-0001-110218
JVE-314SC-0102-110218
JVE-07SC-0203-110218
JVE-07SC-0304-110218
JVE-07SC-0304-110218MS
JVE-07SC-0304-110218DUP
JVE-07SC-0304-110218TRP

Introduction

This data review covers 7 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Plumb Method for Total Organic Carbon and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) and Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG SZ26

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG SZ26

No Sample Data Qualified in this SDG

LDC #: 25671A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/20/11
SDG #: SZ26 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: CR
2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates triplicates	A	DUP, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Sediment

1	JVE-314SC-~~001~~ 0001-110218	11		21	PBS	31	
2	JVE-314SC-0102-110218	12		22		32	
3	JVE-07SC-0203-110218	13		23		33	
4	JVE-07SC-0304-110218	14		24		34	
5	JVE-07SC-0304-110218MS	15		25		35	
6	JVE-07SC-0304-110218~~MSD~~ DUP	16		26		36	
7	JVE-07SC-0304-110218~~DUP~~ TRP	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

25671A6W.wpd

LDC #: 28671A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: [illegible]
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-4		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
MB		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC: 5		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
6,7		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

Jorgensen Forge Facility - LDC 25671

SDG: SZ26

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0203-110218	11-12243-SZ26C	Total solids	6/6/2011	58.1		Yes	Y				0.01		pct
JVE-07SC-0304-110218	11-12244-SZ26D	Total solids	6/6/2011	56.5		Yes	Y				0.01		pct
JVE-314SC-0001-110218	11-12241-SZ26A	Total solids	6/6/2011	61.7		Yes	Y				0.01		pct
JVE-314SC-0102-110218	11-12242-SZ26B	Total solids	6/6/2011	66.4		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0203-110218	11-12243-SZ26C	Total organic carbon	6/7/2011	1.72		Yes	Y				0.020	0.00290	pct
JVE-07SC-0304-110218	11-12244-SZ26D	Total organic carbon	6/7/2011	3.22		Yes	Y				0.020	0.00290	pct
JVE-314SC-0001-110218	11-12241-SZ26A	Total organic carbon	6/7/2011	1.94		Yes	Y				0.020	0.00290	pct
JVE-314SC-0102-110218	11-12242-SZ26B	Total organic carbon	6/7/2011	1.04		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0203-110218	11-12243-SZ26C	Aroclor 1254	6/7/2011	29		Yes	N	Y			29	1.3	ug/kg
JVE-07SC-0203-110218	11-12243-SZ26C	Aroclor 1221	6/7/2011	3.9		Yes	N	U			3.9	1.3	ug/kg
JVE-07SC-0203-110218	11-12243-SZ26C	Aroclor 1260	6/7/2011	120		Yes	Y				3.9	1.3	ug/kg
JVE-07SC-0203-110218	11-12243-SZ26C	Aroclor 1242	6/7/2011	3.9		Yes	N	U			3.9	1.3	ug/kg
JVE-07SC-0203-110218	11-12243-SZ26C	Aroclor 1016	6/7/2011	3.9		Yes	N	U			3.9	0.99	ug/kg
JVE-07SC-0203-110218	11-12243-SZ26C	Aroclor 1248	6/7/2011	16		Yes	N	Y			16	1.3	ug/kg
JVE-07SC-0203-110218	11-12243-SZ26C	Aroclor 1232	6/7/2011	3.9		Yes	N	U			3.9	1.3	ug/kg
JVE-07SC-0304-110218	11-12244-SZ26D	Aroclor 1248	6/8/2011	38		Yes	N	U			38	13	ug/kg
JVE-07SC-0304-110218	11-12244-SZ26D	Aroclor 1260	6/8/2011	280		Yes	Y				38	13	ug/kg
JVE-07SC-0304-110218	11-12244-SZ26D	Aroclor 1254	6/8/2011	38		Yes	N	U			38	13	ug/kg
JVE-07SC-0304-110218	11-12244-SZ26D	Aroclor 1232	6/8/2011	38		Yes	N	U			38	13	ug/kg
JVE-07SC-0304-110218	11-12244-SZ26D	Aroclor 1016	6/8/2011	38		Yes	N	U			38	9.7	ug/kg

EMJ015002

SDG: SZ26

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0304-110218	11-12244-SZ26D	Aroclor 1242	6/8/2011	38	Yes	N	U			38	13	ug/kg
JVE-07SC-0304-110218	11-12244-SZ26D	Aroclor 1221	6/8/2011	38	Yes	N	U			38	13	ug/kg
JVE-314SC-0001-110218	11-12241-SZ26A	Aroclor 1260	6/8/2011	150	Yes	Y				39	13	ug/kg
JVE-314SC-0001-110218	11-12241-SZ26A	Aroclor 1254	6/8/2011	230	Yes	Y				39	13	ug/kg
JVE-314SC-0001-110218	11-12241-SZ26A	Aroclor 1221	6/8/2011	39	Yes	N	U			39	13	ug/kg
JVE-314SC-0001-110218	11-12241-SZ26A	Aroclor 1232	6/8/2011	39	Yes	N	U			39	13	ug/kg
JVE-314SC-0001-110218	11-12241-SZ26A	Aroclor 1248	6/8/2011	98	Yes	N	Y			98	13	ug/kg
JVE-314SC-0001-110218	11-12241-SZ26A	Aroclor 1242	6/8/2011	39	Yes	N	U			39	13	ug/kg
JVE-314SC-0001-110218	11-12241-SZ26A	Aroclor 1016	6/8/2011	39	Yes	N	U			39	10	ug/kg
JVE-314SC-0102-110218	11-12242-SZ26B	Aroclor 1242	6/7/2011	3.8	Yes	N	U	UJ	8	3.8	1.3	ug/kg
JVE-314SC-0102-110218	11-12242-SZ26B	Aroclor 1016	6/7/2011	3.8	Yes	N	U			3.8	0.98	ug/kg
JVE-314SC-0102-110218	11-12242-SZ26B	Aroclor 1260	6/7/2011	140	Yes	Y		J	8	3.8	1.3	ug/kg
JVE-314SC-0102-110218	11-12242-SZ26B	Aroclor 1254	6/7/2011	23	Yes	N	Y	UJ	8	23	1.3	ug/kg
JVE-314SC-0102-110218	11-12242-SZ26B	Aroclor 1221	6/7/2011	3.8	Yes	N	U			3.8	1.3	ug/kg
JVE-314SC-0102-110218	11-12242-SZ26B	Aroclor 1232	6/7/2011	3.8	Yes	N	U			3.8	1.3	ug/kg
JVE-314SC-0102-110218	11-12242-SZ26B	Aroclor 1248	6/7/2011	17	Yes	N	Y	UJ	8	17	1.3	ug/kg

EMJ015003

Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437 **Web** www.lab-data.com **Fax** 760.634.0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

July 5, 2011

SUBJECT: Jorgensen Forge Facility, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on June 23, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 25729:

SDG #	**Fraction**
TA19	Polychlorinated Biphenyls, Wet Chemistry

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

ERauto for

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

V:\LOGIN\Anchor\Jorgensen\25729COV.wpd

0 pages-EX

Attachment 1

EDD 90/10

LDC #25729 (Anchor Environmental-Seattle WA /Jorgensen Forge Facility)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		TOC (Plumb)		Total Solids (160.3)																													
Matrix:	Water/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	TA19	06/23/11	07/14/11	0	2	0	2	0	2																												
Total	A/SC			0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

25729ST.wpd

EMJ015005

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	June 29, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	TA19

Sample Identification

JVE-07SC-0001-110218
JVE-07SC-0102-110218
JVE-07SC-0001-110218MS
JVE-07SC-0001-110218MSD

Introduction

This data review covers 4 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
6/13/11	0613B002.d	ZB35	Aroclor-1260	21.2	All samples in SDG TA19	Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Affected Compound	Flag	A or P
JVE-07SC-0001-110218MS/MSD (JVE-07SC-0001-110218)	Aroclor-1016 Aroclor-1260	49.6 (50-140) -	35.5 (50-140) 19.9 (50-140)	- -	All TCL compounds	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to calibration %D and MS/MSD %R problems, data were qualified as estimated in two samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level III data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG TA19

SDG	Sample	Compound	Flag	A or P	Reason
TA19	JVE-07SC-0001-110218 JVE-07SC-0102-110218	Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
TA19	JVE-07SC-0001-110218	All TCL compounds	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG TA19

No Sample Data Qualified in this SDG

LDC #: 25729A3b

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 6-28-11

SDG #: TA19

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: AK

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/4
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	10 RSDs 20
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation and reported CRQLs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All sediment

1	JVE-07SC-0001-110218	11		21		31	061111-Blk
2	JVE-07SC-0102-110218	12		22		32	
3	JVE-07SC-0001-110218MS	13		23		33	
4	JVE-07SC-0001-110218MSD	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG Chlordane
B beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH Chlordane (Technical)
C delta-BHC	K. Endrin	S alpha-Chlordane	AA Aroclor-1254	II.
D gamma-BHC	L Endosulfan II	T gamma-Chlordane	BB Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V Aroclor-1016	DD 2,4'-DDE	LL
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H Endosulfan I	P Methoxychlor	X Aroclor-1232	FF Hexachlorobenzene	NN.

Notes:

EMJ015013

LDC #: 25729A36
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: [illegible]

METHOD: X GC __ HPLC

2nd Reviewer: [illegible]

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? X %D or __RPD

Y N N/A Were continuing calibration standards analyzed at the required frequencies?

Y N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ≤20.0%?

Level IV Only

Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D (Limit ≤ 20)	RT (limit)	Associated Samples	Qualifications
	6/13/11	06138002-d	ZB35	BB	21.2	( )	ALL	J/UJ/A
						( )		
						( )		(Also qual
						( )		Y,Z,AA)
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		

CONCALNew wpd

EMJ015014

LDC #: 40T49A56
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: __ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	3/4	V	49.6 (50-140)	35.5 (50-140)	( )	/	J/UJ/A (Qual/SX also)
		BB	( )	19.9 (50-140)	( )		✓ (Qual Y, Z, AA also)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		ALL TCL
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

MSDNew.wpd

EMJ015015

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	February 18, 2011
LDC Report Date:	June 28, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	TA19

Sample Identification

JVE-07SC-0001-110218
JVE-07SC-0102-110218
JVE-07SC-0001-110218MS
JVE-07SC-0001-110218DUP
JVE-07SC-0001-110218TRP

Introduction

This data review covers 5 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Plumb Method for Total Organic Carbon and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) and Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG TA19

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG TA19

No Sample Data Qualified in this SDG

LDC #: 25729A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/24/11
SDG #: TA19 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: CS
2nd Reviewer: L

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/18/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates ~~Triplicates~~	A	DUP TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-07SC-0001-110218	11	PBS	21		31	
2	JVE-07SC-0102-110218	12		22		32	
3	JVE-07SC-0001-110218MS	13		23		33	
4	JVE-07SC-0001-110218~~MSD~~ DUP	14		24		34	
5	JVE-07SC-0001-110218~~DUP~~ TRP	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25729A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1,2		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
RC: 3		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
4,5		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

Jorgensen Forge Facility - LDC 25729

SDG: TA19

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0001-110218	11-12627-TA19A	Total solids	6/13/2011	55.1	Yes	Y				0.01		pct
JVE-07SC-0102-110218	11-12628-TA19B	Total solids	6/13/2011	56.5	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0001-110218	11-12627-TA19A	Total organic carbon	6/14/2011	2.43	Yes	Y				0.020	0.00290	pct
JVE-07SC-0102-110218	11-12628-TA19B	Total organic carbon	6/14/2011	1.68	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-07SC-0001-110218	11-12627-TA19A	Aroclor 1016	6/13/2011	19	Yes	N	U	UJ	8	19	0.97	ug/kg
JVE-07SC-0001-110218	11-12627-TA19A	Aroclor 1248	6/13/2011	57	Yes	N	Y	UJ	5,8	57	1.3	ug/kg
JVE-07SC-0001-110218	11-12627-TA19A	Aroclor 1232	6/13/2011	19	Yes	N	U	UJ	8	19	1.3	ug/kg
JVE-07SC-0001-110218	11-12627-TA19A	Aroclor 1221	6/13/2011	19	Yes	N	U	UJ	8	19	1.3	ug/kg
JVE-07SC-0001-110218	11-12627-TA19A	Aroclor 1254	6/13/2011	100	Yes	Y		J	5,8	19	1.3	ug/kg
JVE-07SC-0001-110218	11-12627-TA19A	Aroclor 1260	6/13/2011	62	Yes	Y		J	5,8	19	1.3	ug/kg
JVE-07SC-0001-110218	11-12627-TA19A	Aroclor 1242	6/13/2011	19	Yes	N	U	UJ	5,8	19	1.3	ug/kg
JVE-07SC-0102-110218	11-12628-TA19B	Aroclor 1232	6/13/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-07SC-0102-110218	11-12628-TA19B	Aroclor 1221	6/13/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-07SC-0102-110218	11-12628-TA19B	Aroclor 1254	6/13/2011	75	Yes	Y		J	5	19	1.3	ug/kg
JVE-07SC-0102-110218	11-12628-TA19B	Aroclor 1260	6/13/2011	99	Yes	Y		J	5	19	1.3	ug/kg
JVE-07SC-0102-110218	11-12628-TA19B	Aroclor 1248	6/13/2011	38	Yes	N	Y	UJ	5	38	1.3	ug/kg
JVE-07SC-0102-110218	11-12628-TA19B	Aroclor 1016	6/13/2011	19	Yes	N	U			19	0.96	ug/kg
JVE-07SC-0102-110218	11-12628-TA19B	Aroclor 1242	6/13/2011	19	Yes	N	U	UJ	5	19	1.3	ug/kg

EMJ015023

Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437 **Web** www.lab-data.com **Fax** 760.634.0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

September 6, 2011

SUBJECT: Jorgensen Forge Facility, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on August 17, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 26059:

SDG #	**Fraction**
TH07	Polychlorinated Biphenyls, Wet Chemistry

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

V:\LOGIN\Anchor\Jorgensen\26059COV.wpd

0 pages-EX

Attachment 1

EDD 90/10

LDC #26059 (Anchor Environmental-Seattle WA /Jorgensen Forge Facility)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		TOC (Plumb)		Total Solids (160.3)																													
Matrix:	Water/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	TH07	08/17/11	09/08/11	0	3	0	3	0	3																												
Total	A/SC			0	3	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

26059ST.wpd

EMJ015025

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	March 16, 2011
LDC Report Date:	August 30, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	TH07

Sample Identification

JVE-208SC-0506-110316
JVE-208SC-0607-110316
JVE-208SC-0708-110316
JVE-208SC-0506-110316MS
JVE-208SC-0506-110316MSD

Introduction

This data review covers 5 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for sample JVE-208SC-0708-110316. Since the sample was diluted out, no data were qualified.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Affected Compound	Flag	A or P
JVE-208SC-0506-110316MS/MSD (JVE-208SC-0506-110316)	Aroclor-1260	44.9 (50-140)	25.4 (50-140)	-	Aroclor-1260 Aroclor-1242 Aroclor-1248 Aroclor-1254	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported RLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS/MSD %R problems, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level III data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG TH07

SDG	Sample	Compound	Flag	A or P	Reason
TH07	JVE-208SC-0506-110316	Aroclor-1260 Aroclor-1242 Aroclor-1248 Aroclor-1254	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG TH07

No Sample Data Qualified in this SDG

LDC #: 26059A3b

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 8-23-11

SDG #: TH07

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/16/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	0/0 RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/RL/LOQ/LODs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All Sediment

1	JVE-208SC-0506-110316	11		21		31	080611-BLK
2	JVE-208SC-0607-110316	12		22		32	
3	JVE-208SC-0708-110316	13		23		33	
4	JVE-208SC-0506-110316MS	14		24		34	
5	JVE-208SC-0506-110316MSD	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG Chlordane
B beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH Chlordane (Technical)
C delta-BHC	K. Endrin	S alpha-Chlordane	AA Aroclor-1254	II.
D gamma-BHC	L Endosulfan II	T gamma-Chlordane	BB Aroclor-1260	JJ.
E. Heplachlor	M. 4,4'-DDD	U. Toxaphene	CC 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V Aroclor-1016	DD 2,4'-DDE	LL
G. Heplachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H Endosulfan I	P Methoxychlor	X Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:

C:\Users\rthompson\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content Outlook\366E0K9Q\COMPLST-3S.wpd

LDC #: 26059A3b
SDG #: See Cover

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Reviewer: W
2nd Reviewer: u

METHOD: ___ GC EPA 8081/8082 Pesticides/PCB's
Are surrogates required by the method? Yes X or No____.
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
(Y) N N/A Were surrogates spiked into all samples and blanks?
Y (N) N/A Did all surrogate recoveries (%R) meet the QC limits?

#	Date	Lab ID/Reference	Column	Surrogate Compound	%R (Limits)	Qualifications
		3 (100x)	NS	A	DO (46-113)	no qual, dil 25x
			↓	B	DO (40-130)	↓
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	
					( )	

Letter Designation	Surrogate Compound	Recovery QC Limits (Soil)	Recovery QC Limits (Water)	Comments
A	Tetrachloro-m-xylene			
B	Decachlorobiphenyl			

LDC #: 46UJ7A70
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: KA
2nd Reviewer: K

METHOD: ☑ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	4/5	BB	44.9 (50-140)	25.4 (50-140)	( )	/	J/UJ/A
			( )	( )	( )		
			( )	( )	( )		also qual
			( )	( )	( )		
			( )	( )	( )		Y, Z, AA
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

MSDNew.wpd

EMJ015035

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	March 16, 2011
LDC Report Date:	August 30, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	TH07

Sample Identification

JVE-208SC-0506-110316
JVE-208SC-0607-110316
JVE-208SC-0708-110316
JVE-208SC-0506-110316MS
JVE-208SC-0506-110316DUP
JVE-208SC-0506-110316TRP

Introduction

This data review covers 6 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Plumb Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) and triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG TH07

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG TH07

No Sample Data Qualified in this SDG

LDC #: 26059A6

SDG #: TH07

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 8-25-11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/16/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates ~~Triplicates~~	A	Dup/Trip
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Sediment

1	JVE-208SC-0506-110316	11		21	PBS	31	
2	JVE-208SC-0607-110316	12		22		32	
3	JVE-208SC-0708-110316	13		23		33	
4	JVE-208SC-0506-110316MS	14		24		34	
5	JVE-208SC-0506-110316~~MSD~~ Dup	15		25		35	
6	JVE-208SC-0506-110316~~DUP~~ Trip	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26059A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-3		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC:4		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
5,6		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

September 12, 2011

SUBJECT: Jorgensen Forge Facility, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on August 25, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 26099:

SDG #	Fraction
TI28	Polychlorinated Biphenyls, Wet Chemistry

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

V:\LOGIN\Anchor\Jorgensen\26099COV.wpd

0 pages-EX

Attachment 1

EDD 90/10

LDC #26099 (Anchor Environmental-Seattle WA /Jorgensen Forge Facility)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		TOC (Plumb)		Total Solids (160.3)																													
Matrix:	Water/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	TI28	08/25/11	09/16/11	0	2	0	2	0	2																												
Total	A/SC			0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

26099ST.wpd

EMJ015044

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	March 16, 2011
LDC Report Date:	September 7, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	TI28

Sample Identification

JVE-208SC-0809-110316
JVE-208SC-0910-110316
JVE-208SC-0910-110316MS
JVE-208SC-0910-110316MSD

Introduction

This data review covers 4 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082B for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since the samples were diluted out, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG TI28

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG TI28

No Sample Data Qualified in this SDG

LDC #: 26099A3b **VALIDATION COMPLETENESS WORKSHEET** Date: 9-7-11

SDG #: TJ28 Level III Page: 1 of 1

Laboratory: Analytical Resources, Inc. Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/16/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	~~A SW~~	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes /IS	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/RL/LOQ/LODs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All sediment

1	JVE-208SC-0809-110316	11		21		31	08/511-BLK
2	JVE-208SC-0910-110316	12		22		32	
3	JVE-208SC-0910-110316MS	13		23		33	
4	JVE-208SC-0910-110316MSD	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG Chlordane
B beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH Chlordane (Technical)
C delta-BHC	K. Endrin	S alpha-Chlordane	AA Aroclor-1254	II.
D gamma-BHC	L Endosulfan II	T gamma-Chlordane	BB Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC 2.4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V Aroclor-1016	DD 2.4'-DDE	LL
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2.4'-DDT	MM.
H Endosulfan I	P Methoxychlor	X Aroclor-1232	FF Hexachlorobenzene	NN.

Notes:

EMJ015051

LDC #: 26099A8D
SDG #: Ecl Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of
Reviewer: VAJ
2nd Reviewer: [illegible]

METHOD: X GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	3/4	V	1870 (50-140)	1630 (50-140)	( )	2	~~J 0.0/5/A~~
		BB	155 (50-140)	( )	( )		✓
			( )	( )	( )		~~(ALL TOL)~~
			( )	( )	( )		
			( )	( )	( )		no qual
			( )	( )	( )		dil = 25x
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

EMJ015052

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	March 16, 2011
LDC Report Date:	September 6, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	TI28

Sample Identification

JVE-208SC-0809-110316
JVE-208SC-0910-110316
JVE-208SC-0809-110316MS
JVE-208SC-0809-110316DUP
JVE-208SC-0809-110316TRP

Introduction

This data review covers 5 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Plumb Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) and triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG TI28

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG TI28

No Sample Data Qualified in this SDG

LDC #: 26099A6

SDG #: TJ28

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 8-26-11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/16/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates	A	Dup, Trip
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: sediment

1	JVE-208SC-0809-110316	11		21		31	
2	JVE-208SC-0910-110316	12		22		32	
3	JVE-208SC-0809-110316MS	13		23		33	
4	JVE-208SC-0809-110316~~MSD~~ Dup	14		24		34	
5	JVE-208SC-0809-110316~~DUP~~ Trip	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26099A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1,2		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC: 3		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
4,5		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

Jorgensen Forge Facility - LDC 26099

SDG: TI28

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-208SC-0809-110316	11-17624-TI28A	Total solids	8/12/2011	55.2	Yes	Y				0.01		pct
JVE-208SC-0910-110316	11-17625-TI28B	Total solids	8/12/2011	55.4	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-208SC-0809-110316	11-17624-TI28A	Total organic carbon	8/16/2011	2.78	Yes	Y				0.020	0.00290	pct
JVE-208SC-0910-110316	11-17625-TI28B	Total organic carbon	8/16/2011	2.79	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-208SC-0809-110316	11-17624-TI28A	Aroclor 1260	8/16/2011	300	Yes	Y				96	33	ug/kg
JVE-208SC-0809-110316	11-17624-TI28A	Aroclor 1254	8/16/2011	1200	Yes	Y				96	33	ug/kg
JVE-208SC-0809-110316	11-17624-TI28A	Aroclor 1221	8/16/2011	96	Yes	N	U			96	33	ug/kg
JVE-208SC-0809-110316	11-17624-TI28A	Aroclor 1232	8/16/2011	96	Yes	N	U			96	33	ug/kg
JVE-208SC-0809-110316	11-17624-TI28A	Aroclor 1248	8/16/2011	96	Yes	N	U			96	33	ug/kg
JVE-208SC-0809-110316	11-17624-TI28A	Aroclor 1242	8/16/2011	2800	Yes	Y				96	33	ug/kg
JVE-208SC-0809-110316	11-17624-TI28A	Aroclor 1016	8/16/2011	96	Yes	N	U			96	24	ug/kg
JVE-208SC-0910-110316	11-17625-TI28B	Aroclor 1242	8/16/2011	2400	Yes	Y				97	33	ug/kg
JVE-208SC-0910-110316	11-17625-TI28B	Aroclor 1260	8/16/2011	360	Yes	Y				97	33	ug/kg
JVE-208SC-0910-110316	11-17625-TI28B	Aroclor 1254	8/16/2011	1600	Yes	Y				97	33	ug/kg
JVE-208SC-0910-110316	11-17625-TI28B	Aroclor 1221	8/16/2011	97	Yes	N	U			97	33	ug/kg
JVE-208SC-0910-110316	11-17625-TI28B	Aroclor 1232	8/16/2011	97	Yes	N	U			97	33	ug/kg
JVE-208SC-0910-110316	11-17625-TI28B	Aroclor 1248	8/16/2011	97	Yes	N	U			97	33	ug/kg
JVE-208SC-0910-110316	11-17625-TI28B	Aroclor 1016	8/16/2011	97	Yes	N	U			97	25	ug/kg

EMJ015059

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

September 27, 2011

SUBJECT: Jorgensen Forge Facility, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on September 13, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 26214:

SDG #	Fraction
TL06	Polychlorinated Biphenyls, Wet Chemistry

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

V:\LOGIN\Anchor\Jorgensen\26214COV.wpd

0 pages-EX

Attachment 1

EDD 90/10

LDC #26214 (Anchor Environmental-Seattle WA /Jorgensen Forge Facility)

LDC	SDG#.	DATE REC'D	(3) DATE DUE	PCBs (8082)		TOC (Plumb)		Total Solids (160.3)																													
Matrix:	Water/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	TL06	09/13/11	10/04/11	0	2	0	2	0	2																												
Total	A/SC			0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

26214ST.wpd

EMJ015061

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	March 16, 2011
LDC Report Date:	September 16, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	TL06

Sample Identification

JVE-208SC-1011-110316
JVE-208SC-1112-110316
JVE-208SC-1112-110316MS
JVE-208SC-1112-110316MSD

Introduction

This data review covers 4 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and RLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG TL06

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG TL06

No Sample Data Qualified in this SDG

LDC #: 26214A3b

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 9-15-11

SDG #: TL06

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: MJ

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/16/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/RL/LOQ/LODs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All sediment

1	JVE-208SC-1011-110316	11		21		31	090811-BLK
2	JVE-208SC-1112-110316	12		22		32	
3	JVE-208SC-1112-110316MS	13		23		33	
4	JVE-208SC-1112-110316MSD	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	March 16, 2011
LDC Report Date:	September 22, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.

Sample Delivery Group (SDG): TL06

Sample Identification

JVE-208SC-1011-110316
JVE-208SC-1112-110316
JVE-208SC-1112-110316MS
JVE-208SC-1112-110316DUP
JVE-208SC-1112-110316TRP

Introduction

This data review covers 5 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Plumb Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of the presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) and triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG TL06

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG TL06

No Sample Data Qualified in this SDG

LDC #: 26214A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 9-21-11
SDG #: TL06 Level III Page: 1 of 1
Laboratory: Analytical Resources, Inc. Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/16/11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates	A	DUP, TRP
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Sediment

1	JVE-208SC-1011-110316	11		21		31	
2	JVE-208SC-1112-110316	12		22		32	
3	JVE-208SC-1112-110316MS	13		23		33	
4	JVE-208SC-1112-110316~~MSD~~ DUP	14		24		34	
5	JVE-208SC-1112-110316~~DUP~~ TRP	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26214A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: V

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1,2		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC: 3		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4
4,5		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (TS)
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

METHODS.6

Jorgensen Forge Facility - LDC 26214

SDG: TL06

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-208SC-1011-110316	11-19126-TL06A	Total solids	9/7/2011	64.3	Yes	Y				0.01		pct
JVE-208SC-1112-110316	11-19127-TL06B	Total solids	9/7/2011	66	Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-208SC-1011-110316	11-19126-TL06A	Total organic carbon	9/8/2011	2.24	Yes	Y				0.020	0.00290	pct
JVE-208SC-1112-110316	11-19127-TL06B	Total organic carbon	9/8/2011	2.02	Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-208SC-1011-110316	11-19126-TL06A	Aroclor 1260	9/9/2011	110	Yes	Y				19	1.3	ug/kg
JVE-208SC-1011-110316	11-19126-TL06A	Aroclor 1254	9/9/2011	180	Yes	Y				19	1.3	ug/kg
JVE-208SC-1011-110316	11-19126-TL06A	Aroclor 1221	9/9/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-208SC-1011-110316	11-19126-TL06A	Aroclor 1232	9/9/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-208SC-1011-110316	11-19126-TL06A	Aroclor 1248	9/9/2011	19	Yes	N	U			19	1.3	ug/kg
JVE-208SC-1011-110316	11-19126-TL06A	Aroclor 1242	9/9/2011	190	Yes	Y				19	1.3	ug/kg
JVE-208SC-1011-110316	11-19126-TL06A	Aroclor 1016	9/9/2011	19	Yes	N	U			19	0.98	ug/kg
JVE-208SC-1112-110316	11-19127-TL06B	Aroclor 1242	9/9/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-208SC-1112-110316	11-19127-TL06B	Aroclor 1260	9/9/2011	31	Yes	Y				20	1.3	ug/kg
JVE-208SC-1112-110316	11-19127-TL06B	Aroclor 1254	9/9/2011	87	Yes	Y				20	1.3	ug/kg
JVE-208SC-1112-110316	11-19127-TL06B	Aroclor 1221	9/9/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-208SC-1112-110316	11-19127-TL06B	Aroclor 1232	9/9/2011	20	Yes	N	U			20	1.3	ug/kg
JVE-208SC-1112-110316	11-19127-TL06B	Aroclor 1248	9/9/2011	39	Yes	N	Y			39	1.3	ug/kg
JVE-208SC-1112-110316	11-19127-TL06B	Aroclor 1016	9/9/2011	20	Yes	N	U			20	0.99	ug/kg

EMJ015075

Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437 **Web** www.lab-data.com **Fax** 760.634.0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

October 11, 2011

SUBJECT: Jorgensen Forge Facility, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on September 26, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 26289:

SDG #	**Fraction**
TM04	Polychlorinated Biphenyls, Wet Chemistry

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

V:\LOGIN\Anchor\Jorgensen\26289COV.wpd

0 pages-EX

Attachment 1

EDD 90/10

LDC #26289 (Anchor Environmental-Seattle WA /Jorgensen Forge Facility)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		TOC (Plumb)		Total Solids (160.3)																													
Matrix:	Water/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	TM04	09/26/11	10/17/11	0	1	0	1	0	1																												
Total	A/SC			0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

26289ST.wpd

EMJ015077

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	March 16, 2011
LDC Report Date:	September 30, 2011
Matrix:	Sediment
Parameters:	Polychlorinated Biphenyls
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	TM04

Sample Identification

JVE-208SC-1212.5-110316
JVE-208SC-1212.5-110316MS
JVE-208SC-1212.5-110316MSD

Introduction

This data review covers 3 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and RLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Polychlorinated Biphenyls - Data Qualification Summary - SDG TM04

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG TM04

No Sample Data Qualified in this SDG

LDC #: 26289A3b

VALIDATION COMPLETENESS WORKSHEET

Level III

SDG #: TM04

Laboratory: Analytical Resources, Inc.

Date: 9-28-11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/16/4
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes / IS	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/RL/LOQ/LODs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	JVE-208SC-1212.5-110316	11		21		31	091411-BLK
2	JVE-208SC-1212.5-110316MS	12		22		32	
3	JVE-208SC-1212.5-110316MSD	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Jorgensen Forge Facility
Collection Date:	March 16, 2011
LDC Report Date:	October 10, 2011
Matrix:	Sediment
Parameters:	Wet Chemistry
Validation Level:	EPA Level III
Laboratory:	Analytical Resources, Inc.
Sample Delivery Group (SDG):	TM04

Sample Identification

JVE-208SC-1212.5-110316
JVE-208SC-1212.5-110316MS
JVE-208SC-1212.5-110316TRIP
JVE-208SC-1212.5-110316DUP

Introduction

This data review covers 4 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Plumb Method for Total Organic Carbons and EPA Method 160.3 for Total Solids.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) and triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Facility
Wet Chemistry - Data Qualification Summary - SDG TM04

No Sample Data Qualified in this SDG

Jorgensen Forge Facility
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG TM04

No Sample Data Qualified in this SDG

LDC #: 26289A6

SDG #: TM04

Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 10-6-11

Page: 1 of 1

Reviewer: MG

2nd Reviewer: ✓

METHOD: (Analyte) TOC (PLUMB Method), Total Solids (EPA Method 160.3)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3-16-11
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS
VI.	Duplicates	A	Trip
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Sed

1	JVE-208SC-1212.5-110316	11		21		31	
2	JVE-208SC-1212.5-110316MS	12		22		32	
3	JVE-208SC-1212.5-110316~~MSD~~ TRIP	13	9M.A.	23		33	
4	JVE-208SC-1212.5-110316DUP	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20	PBS	30		40	

Notes:

LDC #: 26289A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: M.G
2nd reviewer:

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1	Sed	pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (Tot Solid) ____
QC 2	↓	pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 ____ ____
↓ 3, 4	↓	pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 (Tot Solid) ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ____ ____

Comments:

METHODS.6

Jorgensen Forge Facility - LDC 26289

SDG: TM04

Analytical Method E160.3

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-208SC-1212.5-11031	11-19868-TM04A	Total solids	9/13/2011	81.7		Yes	Y				0.01		pct

Analytical Method Plumb 1981

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-208SC-1212.5-11031	11-19868-TM04A	Total organic carbon	9/14/2011	0.11		Yes	Y				0.020	0.00290	pct

Analytical Method SW8082

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JVE-208SC-1212.5-11031	11-19868-TM04A	Aroclor 1242	9/15/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-208SC-1212.5-11031	11-19868-TM04A	Aroclor 1016	9/15/2011	19		Yes	N	U			19	0.98	ug/kg
JVE-208SC-1212.5-11031	11-19868-TM04A	Aroclor 1248	9/15/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-208SC-1212.5-11031	11-19868-TM04A	Aroclor 1232	9/15/2011	120		Yes	N	Y			120	1.3	ug/kg
JVE-208SC-1212.5-11031	11-19868-TM04A	Aroclor 1221	9/15/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-208SC-1212.5-11031	11-19868-TM04A	Aroclor 1254	9/15/2011	19		Yes	N	U			19	1.3	ug/kg
JVE-208SC-1212.5-11031	11-19868-TM04A	Aroclor 1260	9/15/2011	19		Yes	N	U			19	1.3	ug/kg

EMJ015091