Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-38-C-E1-4	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.68	0.12
		PCB-1254	0.66	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**1.34**	
EXC-39-C-E2-3	10/15/2014	PCB-1016	ND	0.13
		PCB-1221	ND	0.13
		PCB-1232	ND	0.13
		PCB-1242	ND	0.13
		PCB-1248	ND	0.13
		PCB-1254	ND	0.13
		PCB-1260	ND	0.13
		PCB-1262	ND	0.13
		PCB-1268	ND	0.13
		Total PCBs	**ND**	
EXC-40-C-E3-3	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.27	0.12
		PCB-1254	0.25	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.52**	
EXC-41-C-E4-2	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	ND	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**ND**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-42-C-E5-2	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.034 J	0.12
		PCB-1254	0.028 J	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.062** J	
EXC-43-C-S-4	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.39	0.12
		PCB-1254	0.20	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.59**	
EXC-44-C-W-4	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	51	22
		PCB-1254	22	22
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**73**	
EXC-45-D-F1-6.5	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	64	10
		PCB-1254	34	10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**98**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-46-D-F2-6.5	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	4.5	1.0
		PCB-1254	1.1	1.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**5.6**	
EXC-47-D-F3-6.5	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.19	0.12
		PCB-1254	0.077 J	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.267** J	
EXC-48-D-F4-6.5	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.042 J	0.10
		PCB-1254	0.018 J	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.06** J	
EXC-49-D-N1-4	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	250	60
		PCB-1254	98	60
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**348**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-50-D-N2-6	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	310 J	440
		PCB-1254	79	44
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**389** J	
EXC-51-D-N3-4	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	20	4.8
		PCB-1254	12	4.8
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**32**	
EXC-52-D-N4-6	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	7.1	4.8
		PCB-1254	3.4 J	4.8
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**10.5** J	
EXC-53-D-E1-6	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	12	4.40
		PCB-1254	4.5	4.40
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**16.5**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-54-D-E2-3	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.48	0.12
		PCB-1254	0.42	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.9**	
EXC-55-D-E3-6	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	5.6	1.0
		PCB-1254	3.0	1.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**8.6**	
EXC-56-D-E4-3	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	ND	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**ND**	
EXC-57-D-S1-6	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.69	0.11
		PCB-1254	0.27	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.96**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-58-D-S2-3	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	15	4.8
		PCB-1254	6.9	4.8
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**21.9**	
EXC-59-D-S3-6	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.20	0.10
		PCB-1254	0.14	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.34**	
EXC-60-D-S4-3	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.29	0.11
		PCB-1254	0.12	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.41**	
EXC-61-D-W1-6	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	27	0.10
		PCB-1254	9.4	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**36.4**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-62-D-W2-3	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	280	440
		PCB-1254	79	44
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**359**	
EXC-63-D-W3-6	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	2.8	1.1
		PCB-1254	0.53	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**3.33**	
EXC-64-D-W4-3	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.11	0.10
		PCB-1254	0.047 J	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.157** J	
EXC-65-F-W-1	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	2.6	4.0
		PCB-1254	4.8	4.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**7.4**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-65-F-W-1-FD	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	11	4.0
		PCB-1254	19	4.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**30**	
EXC-66-C-E1-3	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.21	0.11
		PCB-1254	0.091 J	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.301** J	
EXC-67-C-E2-3	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	ND	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**ND**	
EXC-68-C-E3-3	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	ND	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**ND**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-69-D-W-4	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	170	55
		PCB-1254	62	55
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**232**	
EXC-70-D-N-6	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	2.0	0.55
		PCB-1254	0.56	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**2.56**	
EXC-71-F-W-1	10/24/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	9.3	2.4
		PCB-1254	10	2.4
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**19.3**	

Notes:

Sample ID Explanation: EXC-1-F-F-1.5

EXC= Excavation, 1 = Sample Number, F = Building F, F (N) = Floor or N for Direction of Sampled Location

1.5 = Approximate Depth Below Ground in Foot

mg/kg = milligram per kilogram

FD = Field Duplicate

ND = Non Detected

PCB = polychlorinated biphenyl

J - Estimated Value

Table 2
Preliminary Concrete Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
CON-1-D-N-0	9/24/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.34	0.10
		PCB-1254	0.40	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.74**	
CON-2-D-E-0	9/24/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.82	0.10
		PCB-1254	0.63	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**1.45**	
CON-3-D-W-0	9/24/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.54	0.10
		PCB-1254	0.38	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.92**	
CON-4-D-NW-0	10/2/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	2.4	1.0
		PCB-1254	3.6	1.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**6.0**	

Table 2
Preliminary Concrete Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
CON-5-C-W-0	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.22	0.10
		PCB-1254	0.20	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.42**	
CON-5-C-W-0-FD	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	6.2	4.0
		PCB-1254	3.3	4.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**9.5**	
CON-6-C-E-0	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.36	0.10
		PCB-1254	0.69	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**1.05**	
CON-7-C-S-0	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.19	0.10
		PCB-1254	0.26	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.45**	

Table 2
Preliminary Concrete Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits

Notes:

Sample ID Explanation: CON-1-D-N-0

CON= Concrete, 1 = Sample Number, D = Building D, N = N for Direction of Sampled Location
0 = Height in Feet

FD= Field Duplicate

mg/kg = milligram per kilogram

ND = Non Detected

PCB = polychlorinated biphenyl

From:	Dhieux, Joyel
To:	Susan Borden
Cc:	Lave, Sarah; Tom Gieck (tegieck@dow.com); Maestas, Karen; Louis Hard (louishard@outlook.com); tim@hi-tecplasticsinc.com
Subject:	Re: Moline St PCB Site Tech Memo - Excavations 1 through 5
Date:	Tuesday, October 28, 2014 12:59:00 PM
Attachments:	image001.png image003.png image004.png

Hi Susan,

I just spoke with Sarah about the new sampling results. I've given my concurrence to proceed with the backfilling.

Joyel

Federal On-Scene Coordinator
US EPA Region 8
Tel: 303-312-6647
Cell: 720-441-9961

On Oct 28, 2014, at 12:43 PM, "Susan Borden" <sborden@ltenv.com> wrote:

> Hi Sarah,
>
> The data looks good to me. I would just ask that EPA concur prior to backfilling.
>
> Thanks!
>
> Susan Borden
> Senior Geologist, PG
>
> <image001.png>
> *COMPLIANCE / ENGINEERING / REMEDIATION*
>
> LT Environmental, Inc.
> 4600 West 60th Avenue
> Arvada, Colorado 80003
> Office: 303.433.9788
> Direct: 303.962.5493
> Mobile: 303.250.8514
> Fax: 303.433.1432
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> sborden@ltenv.com
>
> Join us on: <image002.jpg> <image003.png> <image004.png>
>
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From: Lave, Sarah [mailto:sarah.lave@urs.com]
Sent: Monday, October 27, 2014 10:36 PM
To: Dhieux, Joyel
Cc: Tom Gieck (tegieck@dow.com); Maestas, Karen; Louis Hard (louishard@outlook.com); tim@hi-tecplasticsinc.com; Susan Borden
Subject: Moline St PCB Site Tech Memo - Excavations 1 through 5

Please see attached tech memo for Excavations 1 through 5.

Thanks,
Sarah

Sarah Lave
URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
Direct: 303.740.2680
Mobile: 303.501.7481
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E-mail: sarah.lave@urs.com

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TO: Joyel Dhieux, On-Scene Coordinator for EPA - Region VIII

FROM: Karen Maestas, P.E. Project Manager and Sarah Lave, Deputy Project Manager, URS Corporation

CC: Tom Gieck, Remediation Leader, TDCC Representative
Louis Hard, Hi-Tec Plastics, Inc.

DATE: October 29, 2014

SUBJECT: Summary of Removal Action Confirmation Samples - Preliminary Results for Excavations 6 and 7

Moline Street PCB Site - 3555 Moline Street, Aurora, Adams County, Colorado

REFERENCE: Administrative Settlement Agreement and Order on Consent for Removal Action (AOC), CERCLA Docket No. 08-2014-0002

URS Corporation (URS) prepared this technical memorandum on behalf of The Dow Chemical Company (TDCC) to present preliminary data for excavations 6 and 7 for the Moline Street PCB Site located 3555 Moline Street, Aurora, Colorado (Site), as shown on attached Figure 1. Based on your verbal approval provided to Sarah Lave of URS on October 28, we will proceed with backfilling excavations 6 and 7 as shown on Figure 1. Rationale for proceeding with backfilling at these excavations is documented below.

This technical memorandum provides a brief summary of the confirmation soil and concrete sample results from two of the seven excavations. A summary of the sample results from excavations 1 through 5 was provided to you on October 27, 2014. Clean-up levels are as follows:

- 25 mg/kg (ppm) for the uppermost foot of concrete/soil;
- 100 mg/kg (or ppm) for subsurface soils (deeper than 12 inches).

The following figures and tables summarize the locations and data for excavations 6 and 7. Note that excavations 6 and 7 are separated by the north wall of building D, with excavations on either side of the wall to within 3 feet of the footers to maintain building/wall stability.

Figure 1 – Excavation Locations, Numbers and Key
Figure 4[1] – Preliminary Concrete and Soil Excavation Confirmation Sample Results, Excavations 6 and 7
Table 1 – Preliminary Soil Confirmation Analytical Results
Table 2 – Preliminary Concrete Confirmation Analytical Results

[1] Figures 3 and 4 were provided in the October 27, 2014 tech memo.

Excavation 6 – Soil samples were collected from varying depths on the north, east, south, and west sidewalls, and the floor of Excavation 6, as shown on Figure 4. A concrete sample (CON-7) was collected on the east side of former Building C, as shown on Figure 4. Sample results for Excavation 6 soil and concrete samples were below the clean-up level of 25 mg/kg (0-1-ft below ground surface) and 100 mg/kg (greater than 1-ft below ground surface). Results show this excavation meets the clean-up criteria and is complete.

Excavation 7 – Four floor samples, 16 sidewall samples, and five step-out samples were collected from Excavation 7, as shown on Figure 4. The excavation was benched and samples were collected at varying depths. Two initial soil samples collected on the north side (EXC-49 and EXC-50) and one sample on the west side of Excavation 7 (EXC-62) had results exceeding the clean-up criteria of 100 mg/kg.

Excavation 7, North Sidewall

The north sidewall of Excavation 7 was excavated and benched to maintain the required clearance of 3-feet from the edge of the footer before benching the excavation. Sample EXC-49 was collected on the 4-foot bench and sample EXC-50 was collected on the 6-foot bench. The result for EXC-50 was 389 mg/kg; therefore additional soil was removed from the 6-foot bench and a step-out sample was collected (EXC-70). The PCB result from EXC-70 was below the clean-up level of 100 mg/kg.

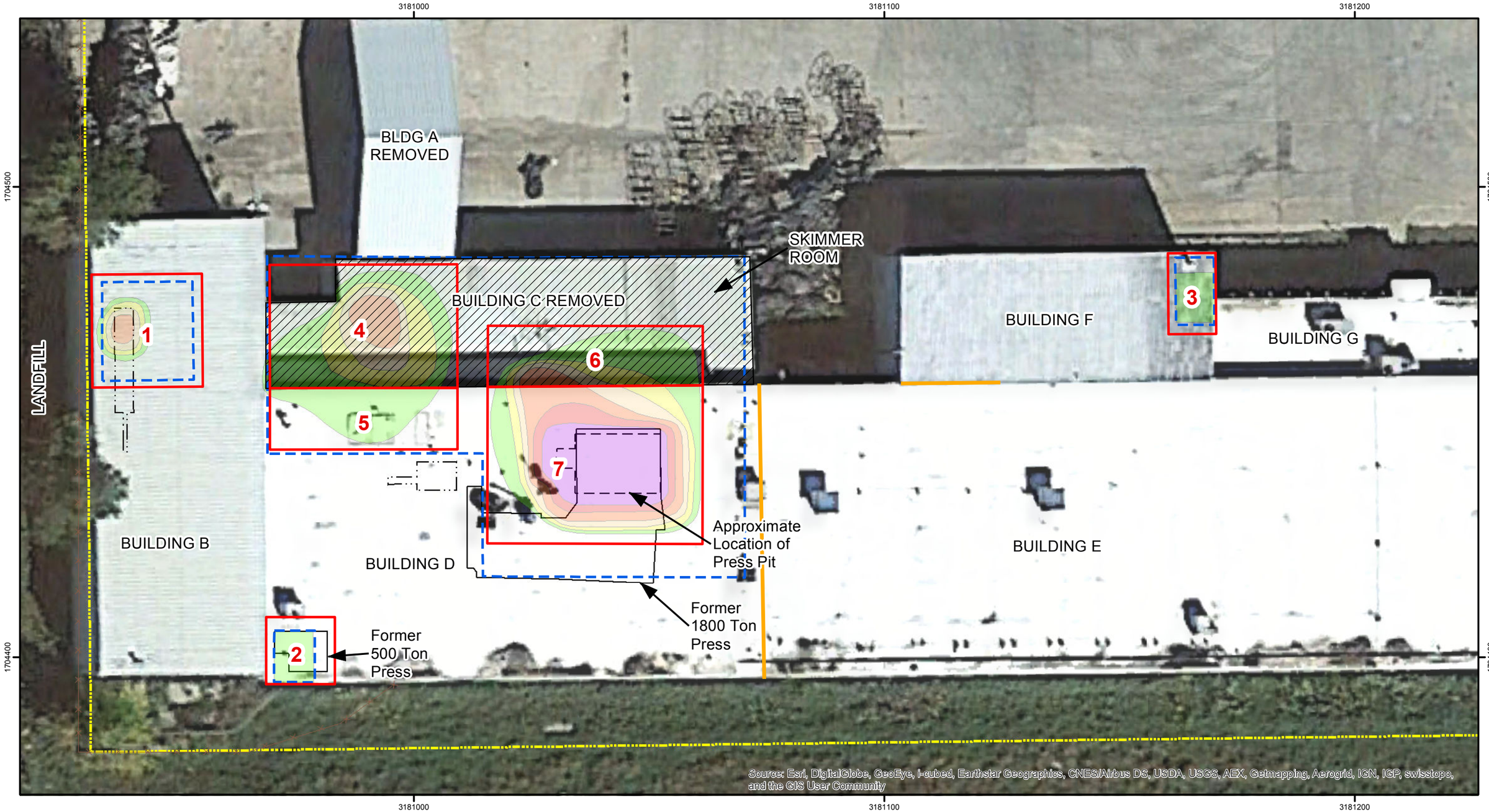
The soil where EXC-49 was collected on the 4-ft bench (4-ft deep) could not be further excavated because of the required clearance of 3-feet (3-ft horizontally) from the edge of the footer. This clearance was necessary to avoid excavating soil from an area that may be helping resist load, which would potentially reduce the stability of the wall. Because of the requirement to maintain the 3-foot clearance from the footer, additional soil cannot be removed in this area without potentially jeopardizing building stability.

Excavation 7, West Sidewall

In the northwest area of Excavation 7, additional soil was removed in the area of EXC-62 (west sidewall). A step-out sample was collected (EXC-69) and results of EXC-69 still exceeded the clean-up level of 100 mg/kg. An additional area of soil was excavated towards the west and three more step-out samples were collected (EXC-72, EXC-73, and EXC-74). After this additional soil removal, results were less than the clean-up level of 100 mg/kg. Results are shown in Table 1.

Results show that Excavation 7 meets the clean-up criteria with the exception of the area near the footer of the building on the north sidewall where additional soil cannot be removed (EXC-49 area, approximately 4-ft below ground surface). The total PCB concentration of sample EXC-49 is 348 mg/kg. As discussed between you and Sarah Lave with URS on October 23, 2014 (at the Site), this north sidewall area of Excavation 7 is considered complete although the total PCB

concentration of sample EXC-49 (348 mg/kg) is greater than the clean-up level of 100 mg/kg because, as stated in the AOC (Appendix A and D), only accessible soil will be removed to the extent that building stability is not compromised. Clean, compacted soil backfill will cover this area and a concrete floor will be placed over Excavation 7 (inside Building D). As stated in the AOC, post-removal site controls, such as covenants governing future land use may be required.



Site Boundary
Former Press Footprint
Press Pit
Unidentified Feature
Fence

Approximate Extent of Removal Depths (ft bgs)
1
2
3
4
5
6

Excavation 1: Building B
Excavation 2: Building D, Southwest Excavation
Excavation 3: Building F
Excavation 4: Former Building C, West Excavation
Excavation 5: Building D, Northwest Excavation
Excavation 6: Former Building C, East Excavation
Excavation 7: Building D, Northeast Excavation

Map Projection:
State Plane Feet, Colorado Central Zone, NAD83.
Aerial Photo Basemap Source:
Google Earth, 10/6/2013 and
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20 0 20 Feet
1 inch = 20 feet

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W E
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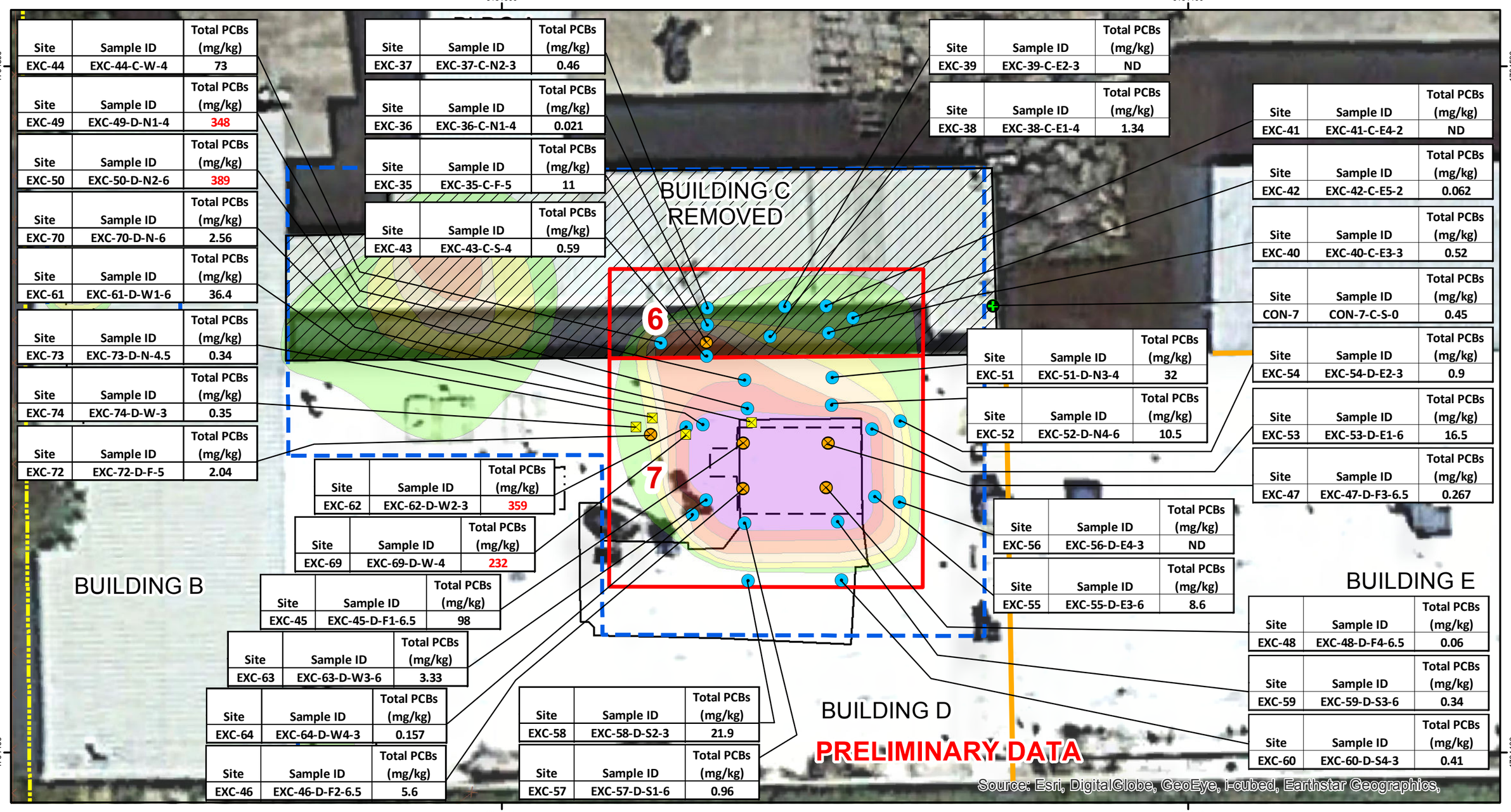
FIGURE 1
EXCAVATION LOCATIONS,
NUMBERS AND KEY

REMOVAL ACTION - MOLINE STREET PCB SITE
AURORA, COLORADO

PROJECT NO.	DRAWING NO.	DATE
41569671	Fig1_Excavation_Key.mxd	10/28/14



Site	Sample ID	Total PCBs (mg/kg)
EXC-44	EXC-44-C-W-4	73
EXC-49	EXC-49-D-N1-4	348
EXC-50	EXC-50-D-N2-6	389
EXC-70	EXC-70-D-N-6	2.56
EXC-61	EXC-61-D-W1-6	36.4
EXC-73	EXC-73-D-N-4.5	0.34
EXC-74	EXC-74-D-W-3	0.35
EXC-72	EXC-72-D-F-5	2.04

Site	Sample ID	Total PCBs (mg/kg)
EXC-37	EXC-37-C-N2-3	0.46
EXC-36	EXC-36-C-N1-4	0.021
EXC-35	EXC-35-C-F-5	11
EXC-43	EXC-43-C-S-4	0.59

Site	Sample ID	Total PCBs (mg/kg)
EXC-39	EXC-39-C-E2-3	ND
EXC-38	EXC-38-C-E1-4	1.34

Site	Sample ID	Total PCBs (mg/kg)
EXC-41	EXC-41-C-E4-2	ND
EXC-42	EXC-42-C-E5-2	0.062
EXC-40	EXC-40-C-E3-3	0.52
CON-7	CON-7-C-S-0	0.45
EXC-54	EXC-54-D-E2-3	0.9
EXC-53	EXC-53-D-E1-6	16.5
EXC-47	EXC-47-D-F3-6.5	0.267

Site	Sample ID	Total PCBs (mg/kg)
EXC-51	EXC-51-D-N3-4	32
EXC-52	EXC-52-D-N4-6	10.5

Site	Sample ID	Total PCBs (mg/kg)
EXC-62	EXC-62-D-W2-3	359
EXC-69	EXC-69-D-W-4	232
EXC-45	EXC-45-D-F1-6.5	98
EXC-63	EXC-63-D-W3-6	3.33
EXC-64	EXC-64-D-W4-3	0.157
EXC-46	EXC-46-D-F2-6.5	5.6

Site	Sample ID	Total PCBs (mg/kg)
EXC-58	EXC-58-D-S2-3	21.9
EXC-57	EXC-57-D-S1-6	0.96

Site	Sample ID	Total PCBs (mg/kg)
EXC-56	EXC-56-D-E4-3	ND
EXC-55	EXC-55-D-E3-6	8.6

Site	Sample ID	Total PCBs (mg/kg)
EXC-48	EXC-48-D-F4-6.5	0.06
EXC-59	EXC-59-D-S3-6	0.34
EXC-60	EXC-60-D-S4-3	0.41

Building Removal by URS
Approximate Saw Cutting Extent
Site Boundary
Former Press Footprint
Press Pit
Unidentified Feature
Fence

Approximate Extent of Removal Depths (ft bgs)
1
2
3
4
5
6

Approximate Sample Location
Concrete
Floor
Sidewall
Step out

Definition of Sample ID Elements			
EXC-7	B	N	2.5
Site ID	Building	N - Direction of Sidewall Sample Location (or F - Floor)	Depth (ft bgs)

Screening levels - 0-1' bgs: 25 (mg/kg)
>1' bgs: 100 (mg/kg)
Bold red values exceed screening level.

bgs = below ground surface
mg/kg = milligrams per kilogram

Site ID - Excavation (EXC) or Concrete (CON)
Sample Location - Floor (F) or Sidewall (N, S, E, W)

Map Projection:
State Plane Feet, Colorado Central Zone, NAD83.
Aerial Photo Basemap Source:
Google Earth, 10/6/2013 and
Copyright 2013 Esri, DeLorme, NAVTEQ, TomTom.

14 0 14 Feet
1 inch = 14 feet

N W E S

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FIGURE 4
PRELIMINARY CONCRETE AND SOIL EXCAVATION CONFIRMATION SAMPLE RESULTS
EXCAVATIONS 6 AND 7

REMOVAL ACTION - MOLINE STREET PCB SITE
AURORA, COLORADO

PROJECT NO.	DRAWING NO.	DATE
41569671	Fig4_RemActSampleLocs_6_7.mxd	10/29/14

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-1-F-F-1.5	9/10/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.18	0.12
		PCB-1254	0.19	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.37**	
EXC-2-F-S-1	9/10/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	4.4	0.50
		PCB-1254	2.3	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**6.7**	
EXC-3-F-W-1	9/10/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	8.0	1.2
		PCB-1254	14	2.4
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**22**	
EXC-4-F-N-1	9/10/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	97	10
		PCB-1254	140	20
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**237**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-5-F-E-1	9/10/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.41	0.10
		PCB-1254	0.63	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**1.04**	
EXC-6-B-F-3	9/10/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	160	24
		PCB-1254	58	12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**218**	
EXC-6-B-F-3-FD	9/10/2014	PCB-1016	ND	0.13
		PCB-1221	ND	0.13
		PCB-1232	ND	0.13
		PCB-1242	ND	0.13
		PCB-1248	250	26
		PCB-1254	89	13
		PCB-1260	ND	0.13
		PCB-1262	ND	0.13
		PCB-1268	ND	0.13
		Total PCBs	**339**	
EXC-7-B-N-2.5	9/10/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.91	0.11
		PCB-1254	0.40	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**1.31**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-8-B-W-2.5	9/10/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.37	0.11
		PCB-1254	0.14	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.51**	
EXC-9-B-S-2.5	9/10/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	38	6.0
		PCB-1254	14	3.0
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**52**	
EXC-10-B-E-2.5	9/10/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	3.3	0.55
		PCB-1254	1.5	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**4.8**	
EXC-11-F-N-1	9/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	17	2.2
		PCB-1254	7.9	1.1
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**24.9**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-12-D-N-1	9/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.20	0.11
		PCB-1254	0.15	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.35**	
EXC-13-D-E-1	9/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.75	0.11
		PCB-1254	1.6	0.55
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**2.35**	
EXC-14-D-W-1	9/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.16	0.11
		PCB-1254	0.21	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.37**	
EXC-15-D-F-1	9/24/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.28	0.12
		PCB-1254	0.45	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.73**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-16-B-F-4	10/2/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	1.2	0.11
		PCB-1254	0.66	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**1.86**	
EXC-16-B-F-4-FD	10/2/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	1.0	0.12
		PCB-1254	0.49	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**1.49**	
EXC-17-D-F-2	10/2/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	ND	0.12
		PCB-1254	0.058 J	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.058** J	
EXC-18-D-F-2	10/2/2014	PCB-1016	ND	0.13
		PCB-1221	ND	0.13
		PCB-1232	ND	0.13
		PCB-1242	ND	0.13
		PCB-1248	ND	0.13
		PCB-1254	ND	0.13
		PCB-1260	ND	0.13
		PCB-1262	ND	0.13
		PCB-1268	ND	0.13
		Total PCBs	**ND**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-19-D-F-2	10/2/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.017 J	0.12
		PCB-1254	ND	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.017** J	
EXC-20-D-E-1.5	10/2/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.042 J	0.12
		PCB-1254	ND	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.042** J	
EXC-21-D-W-1.5	10/2/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	ND	0.12
		PCB-1254	ND	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**ND**	
EXC-22-D-S1-1.5	10/2/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	ND	0.12
		PCB-1254	ND	0.12
		PCB-1260	0.087 J	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.087** J	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-23-D-S2-1.5	10/2/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.27	0.12
		PCB-1254	0.29	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.56**	
EXC-24-D-S3-1.5	10/2/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	ND	0.12
		PCB-1254	ND	0.12
		PCB-1260	0.16	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.16**	
EXC-25-C-F-4	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.17	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.17**	
EXC-26-C-N-3	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	2.3	0.55
		PCB-1254	0.29	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**2.59**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-27-C-E1-2	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	2,500	480
		PCB-1254	1,200	480
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**3,700**	
EXC-28-C-E2-3	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.20	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.20**	
EXC-29-C-E3-3	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	4,500	600
		PCB-1254	2,200	600
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**6,700**	
EXC-30-C-S1-3	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.48	0.11
		PCB-1254	0.24	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.72**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-31-C-S2-2	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.65	0.12
		PCB-1254	0.24	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.89**	
EXC-32-C-W1-2	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.058 J	0.11
		PCB-1254	0.051 J	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.109** J	
EXC-33-C-W2-1	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.27	0.11
		PCB-1254	0.28	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.55**	
EXC-34-C-W3-3	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.075 J	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.075** J	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-35-C-F-5	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	6.9	1.1
		PCB-1254	4.1	1.1
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**11.0**	
EXC-35-C-F-5-FD	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.57	0.11
		PCB-1254	0.22	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.79**	
EXC-36-C-N1-4	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	ND	0.11
		PCB-1254	0.021 J	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.021** J	
EXC-37-C-N2-3	10/15/2014	PCB-1016	ND	0.13
		PCB-1221	ND	0.13
		PCB-1232	ND	0.13
		PCB-1242	ND	0.13
		PCB-1248	0.30	0.13
		PCB-1254	0.16	0.13
		PCB-1260	ND	0.13
		PCB-1262	ND	0.13
		PCB-1268	ND	0.13
		Total PCBs	**0.46**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-38-C-E1-4	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.68	0.12
		PCB-1254	0.66	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**1.34**	
EXC-39-C-E2-3	10/15/2014	PCB-1016	ND	0.13
		PCB-1221	ND	0.13
		PCB-1232	ND	0.13
		PCB-1242	ND	0.13
		PCB-1248	ND	0.13
		PCB-1254	ND	0.13
		PCB-1260	ND	0.13
		PCB-1262	ND	0.13
		PCB-1268	ND	0.13
		Total PCBs	**ND**	
EXC-40-C-E3-3	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.27	0.12
		PCB-1254	0.25	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.52**	
EXC-41-C-E4-2	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	ND	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**ND**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-42-C-E5-2	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.034 J	0.12
		PCB-1254	0.028 J	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.062** J	
EXC-43-C-S-4	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.39	0.12
		PCB-1254	0.20	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.59**	
EXC-44-C-W-4	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	51	22
		PCB-1254	22	22
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**73**	
EXC-45-D-F1-6.5	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	64	10
		PCB-1254	34	10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**98**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-46-D-F2-6.5	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	4.5	1.0
		PCB-1254	1.1	1.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**5.6**	
EXC-47-D-F3-6.5	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.19	0.12
		PCB-1254	0.077 J	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.267** J	
EXC-48-D-F4-6.5	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.042 J	0.10
		PCB-1254	0.018 J	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.06** J	
EXC-49-D-N1-4	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	250	60
		PCB-1254	98	60
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**348**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-50-D-N2-6	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	310 J	440
		PCB-1254	79	44
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**389** J	
EXC-51-D-N3-4	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	20	4.8
		PCB-1254	12	4.8
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**32**	
EXC-52-D-N4-6	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	7.1	4.8
		PCB-1254	3.4 J	4.8
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**10.5** J	
EXC-53-D-E1-6	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	12	4.40
		PCB-1254	4.5	4.40
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**16.5**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-54-D-E2-3	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	0.48	0.12
		PCB-1254	0.42	0.12
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**0.9**	
EXC-55-D-E3-6	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	5.6	1.0
		PCB-1254	3.0	1.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**8.6**	
EXC-56-D-E4-3	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	ND	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**ND**	
EXC-57-D-S1-6	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.69	0.11
		PCB-1254	0.27	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.96**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-58-D-S2-3	10/15/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	15	4.8
		PCB-1254	6.9	4.8
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**21.9**	
EXC-59-D-S3-6	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.20	0.10
		PCB-1254	0.14	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.34**	
EXC-60-D-S4-3	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.29	0.11
		PCB-1254	0.12	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.41**	
EXC-61-D-W1-6	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	27	0.10
		PCB-1254	9.4	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**36.4**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-62-D-W2-3	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	280	440
		PCB-1254	79	44
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**359**	
EXC-63-D-W3-6	10/15/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	2.8	1.1
		PCB-1254	0.53	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**3.33**	
EXC-64-D-W4-3	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.11	0.10
		PCB-1254	0.047 J	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.157** J	
EXC-65-F-W-1	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	2.6	4.0
		PCB-1254	4.8	4.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**7.4**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-65-F-W-1-FD	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	11	4.0
		PCB-1254	19	4.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**30**	
EXC-66-C-E1-3	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.21	0.11
		PCB-1254	0.091 J	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.301** J	
EXC-67-C-E2-3	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	ND	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**ND**	
EXC-68-C-E3-3	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	ND	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**ND**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-69-D-W-4	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	170	55
		PCB-1254	62	55
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**232**	
EXC-70-D-N-6	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	2.0	0.55
		PCB-1254	0.56	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**2.56**	
EXC-71-F-W-1	10/24/2014	PCB-1016	ND	0.12
		PCB-1221	ND	0.12
		PCB-1232	ND	0.12
		PCB-1242	ND	0.12
		PCB-1248	9.3	2.4
		PCB-1254	10	2.4
		PCB-1260	ND	0.12
		PCB-1262	ND	0.12
		PCB-1268	ND	0.12
		Total PCBs	**19.3**	
EXC-72-D-F-5	10/24/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	1.7	1.0
		PCB-1254	0.34	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**2.04**	

Table 1
Preliminary Soil Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
EXC-73-D-N-4.5	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.34	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.34**	
EXC-74-D-W-3	10/24/2014	PCB-1016	ND	0.11
		PCB-1221	ND	0.11
		PCB-1232	ND	0.11
		PCB-1242	ND	0.11
		PCB-1248	0.35	0.11
		PCB-1254	ND	0.11
		PCB-1260	ND	0.11
		PCB-1262	ND	0.11
		PCB-1268	ND	0.11
		Total PCBs	**0.35**	

Notes:

Sample ID Explanation: EXC-1-F-F-1.5

EXC= Excavation, 1 = Sample Number, F = Building F, F (N) = Floor or N for Direction of Sampled Location

1.5 = Approximate Depth Below Ground in Foot

mg/kg = milligram per kilogram

FD = Field Duplicate

ND = Non Detected

PCB = polychlorinated biphenyl

J - Estimated Value

Table 2
Preliminary Concrete Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
CON-1-D-N-0	9/24/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.34	0.10
		PCB-1254	0.40	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.74**	
CON-2-D-E-0	9/24/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.82	0.10
		PCB-1254	0.63	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**1.45**	
CON-3-D-W-0	9/24/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.54	0.10
		PCB-1254	0.38	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.92**	
CON-4-D-NW-0	10/2/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	2.4	1.0
		PCB-1254	3.6	1.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**6.0**	

Table 2
Preliminary Concrete Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits
CON-5-C-W-0	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.22	0.10
		PCB-1254	0.20	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.42**	
CON-5-C-W-0-FD	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	6.2	4.0
		PCB-1254	3.3	4.0
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**9.5**	
CON-6-C-E-0	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.36	0.10
		PCB-1254	0.69	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**1.05**	
CON-7-C-S-0	10/15/2014	PCB-1016	ND	0.10
		PCB-1221	ND	0.10
		PCB-1232	ND	0.10
		PCB-1242	ND	0.10
		PCB-1248	0.19	0.10
		PCB-1254	0.26	0.10
		PCB-1260	ND	0.10
		PCB-1262	ND	0.10
		PCB-1268	ND	0.10
		Total PCBs	**0.45**	

Table 2
Preliminary Concrete Confirmation Analytical Results
Moline Street PCB Site , Aurora, CO

Sample ID	Collection Date	Analyte	Analytical Results (mg/kg)	Reporting Limits

Notes:

Sample ID Explanation: CON-1-D-N-0

CON= Concrete, 1 = Sample Number, D = Building D, N = N for Direction of Sampled Location
0 = Height in Feet

FD= Field Duplicate

mg/kg = milligram per kilogram

ND = Non Detected

PCB = polychlorinated biphenyl

From:	Dhieux, Joyel
To:	Susan Borden
Cc:	Lave, Sarah; Tom Gieck (tegieck@dow.com); Maestas, Karen; Louis Hard (louishard@outlook.com); tim@hi-tecplasticsinc.com
Subject:	Re: Moline St PCB Site Tech Memo - Excavations 6 and 7
Date:	Monday, November 03, 2014 10:39:00 AM
Attachments:	image001.png image003.png image004.png

Hi Susan,

Yes, I've given Dow approval to proceed with the backfilling. Please call me if you have any questions.

Thanks,

Joyel

Federal On-Scene Coordinator
US EPA Region 8
Tel: 303-312-6647
Cell: 720-441-9961

On Nov 3, 2014, at 9:31 AM, "Susan Borden" <sborden@ltenv.com> wrote:

> When are the excavations to be backfilled? Do we have written notice from EPA that backfilling the excavations are appropriate?
>
> Thanks,
>
> Susan Borden
> Senior Geologist, PG
>
> <image001.png>
> *COMPLIANCE / ENGINEERING / REMEDIATION*
>
> LT Environmental, Inc.
> 4600 West 60th Avenue
> Arvada, Colorado 80003
> Office: 303.433.9788
> Direct: 303.962.5493
> Mobile: 303.250.8514
> Fax: 303.433.1432
>
> www.ltenv.com
> sborden@ltenv.com
>
> Join us on: <image002.jpg> <image003.png> <image004.png>
>
> This message and any attached files are privileged, confidential, and intended solely for the use of the addressee. If you have received this by mistake, please let us know by reply e-mail and delete it from your system; you may not copy, disclose, disseminate, use or rely upon its content for any use. E-mail transmissions cannot be guaranteed to be secure, error-free, or free of viruses. The sender and LTE therefore do not accept liability for any of these described issues. The comments and opinions expressed herein are those of the author and not necessarily of LTE. Thank you.

From: Lave, Sarah [mailto:sarah.lave@urs.com]
Sent: Wednesday, October 29, 2014 5:14 PM
To: Dhieux, Joyel
Cc: Tom Gieck (tegieck@dow.com); Maestas, Karen; Louis Hard (louishard@outlook.com); tim@hi-tecplasticsinc.com; Susan Borden
Subject: RE: Moline St PCB Site Tech Memo - Excavations 6 and 7

Please see attached tech memo for Excavations 6 and 7. We will follow-up with maps that include the surveyed excavations and sample locations when available.

Thanks,
Sarah

Sarah Lave
URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
Direct: 303.740.2680
Mobile: 303.501.7481
Fax: 303.694.3946
E-mail: sarah.lave@urs.com

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Form No. GWS-09 4/2012

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER
821 Centennial Bldg., 1313 Sherman St., Denver, CO 80203
(303) 866-3581 Fax (303) 866-3589 dwrpermitsonline@state.co.us

For Office Use Only

WELL ABANDONMENT REPORT

Use to report plugging and sealing of permitted wells, monitoring and other holes. This form can be computer generated, typed or printed in black or blue ink. Instructions and plugging standards are on reverse side of form.

Well Permit Number of the well being plugged _____ **or**
MH File Number MH- _____ **Hole ID #/Name** BH-05

Individual/Company responsible for plugging and sealing the well:

Name(s) CTI and Associates, Inc.

Mailing Address 51331 Pontiac Trail

City, St., Zip Wixom, MI 48393

Phone (area code & no.) 248.560.0703 Email: tmoore@cticompanies.com

Well (Hole) Owner:

NAME(S) Louis Hard, Hi-Tec Plastics Phone (include area code) 720-644-2460

Mailing Address, City, St., Zip 11380 E. Smith Rd., Aurora, CO 80010

ACTUAL WELL LOCATION: County Adams

Property Address, City, St, Zip 3555 Moline St., Aurora, CO 80010

_____1/4 of the____ 1/4, Sec. ____, Twp. _____ ☐ N. or ☐ S., Range _____ ☐ E. or ☐ W., _____ P.M.

Distance from Section Lines _____ Ft. from ☐ N. or ☐ S., _____ Ft. from ☐ E. or ☐ W. Line.

Subdivision Name _____ Lot _____, Block _____, Filing/Unit _____

Optional: GPS well location information in UTM format. You must check GPS unit for required settings as follows:

Format must be UTM, zone 12 ☐ or zone 13 ☒; Units must be meters; Datum must be NAD83; Unit must be set to true north.

Easting 512302 **Northing** 4401775

I (we) report the existing well (hole) was plugged and sealed on the date of _____ for the following reason(s):

☐ The well was plugged and sealed as required under Well Permit Number _____.

☐ The well was not in use and was plugged and sealed.

☒ Other (please explain) Well was abandoned as part of a contaminated soil removal.

The well was plugged with the following materials placed at the indicated intervals:

Amount and Type of Material	Method of Placement	Interval
Silica sand	Poured	from 16 feet to 22 feet
Bentonite chips	Poured	from 5 feet to 16 feet
		from _____ feet to _____ feet
Intervals of casing removed/ripped in feet		from 0 feet to 5 feet

Report must be signed or name entered by person who performed the well plugging work or by the well owner if this person is unknown or not reachable. I (we) have read the statements made herein, know the contents thereof, and that they are true to my (our) knowledge.

Sign or enter full name	If signing print name & title	Date (mm/dd/yyyyy)

It is the responsibility of the well owner to have the well/hole properly plugged and sealed. The Well Construction Contractor is responsible for notifying the owner of this requirement.

Form No. GWS-09 4/2012

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER
821 Centennial Bldg., 1313 Sherman St., Denver, CO 80203
(303) 866-3581 Fax (303) 866-3589 dwrpermitsonline@state.co.us

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WELL ABANDONMENT REPORT

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Well Permit Number of the well being plugged _____ **or**
MH File Number MH- _____ **Hole ID #/Name** BH-06

Individual/Company responsible for plugging and sealing the well:

Name(s) CTI and Associates, Inc.

Mailing Address 51331 Pontiac Trail

City, St., Zip Wixom, MI 48393

Phone (area code & no.) 248.560.0703 Email: tmoore@cticompanies.com

Well (Hole) Owner:

NAME(S) Louis Hard, Hi-Tec Plastics Phone (include area code) 720-644-2460

Mailing Address, City, St., Zip 11380 E. Smith Rd., Aurora, CO 80010

ACTUAL WELL LOCATION: County Adams

Property Address, City, St, Zip 3555 Moline St., Aurora, CO 80010

_____1/4 of the____ 1/4, Sec. ____, Twp. _____ ☐ N. or ☐ S., Range _____ ☐ E. or ☐ W., _____ P.M.

Distance from Section Lines _____ Ft. from ☐ N. or ☐ S., _____ Ft. from ☐ E. or ☐ W. Line.

Subdivision Name _____ Lot _____, Block _____, Filing/Unit _____

Optional: GPS well location information in UTM format. You must check GPS unit for required settings as follows:

Format must be UTM, zone 12 ☐ or zone 13 ☒; Units must be meters; Datum must be NAD83; Unit must be set to true north.

Easting 512317 **Northing** 4401760

I (we) report the existing well (hole) was plugged and sealed on the date of _____ for the following reason(s):

☐ The well was plugged and sealed as required under Well Permit Number _____.

☐ The well was not in use and was plugged and sealed.

☒ Other (please explain) Well was abandoned as part of a contaminated soil removal.

The well was plugged with the following materials placed at the indicated intervals:

Amount and Type of Material	Method of Placement	Interval
Silica sand	Poured	from 16 feet to 19.5 feet
Bentonite chips	Poured	from 5 feet to 16 feet
		from _____ feet to _____ feet
Intervals of casing removed/ripped in feet		from 0 feet to 5 feet

Report must be signed or name entered by person who performed the well plugging work or by the well owner if this person is unknown or not reachable. I (we) have read the statements made herein, know the contents thereof, and that they are true to my (our) knowledge.

Sign or enter full name	If signing print name & title	Date (mm/dd/yyyy)

It is the responsibility of the well owner to have the well/hole properly plugged and sealed. The Well Construction Contractor is responsible for notifying the owner of this requirement.

Form No. GWS-09 4/2012

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER
821 Centennial Bldg., 1313 Sherman St., Denver, CO 80203
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For Office Use Only

WELL ABANDONMENT REPORT

Use to report plugging and sealing of permitted wells, monitoring and other holes. This form can be computer generated, typed or printed in black or blue ink. Instructions and plugging standards are on reverse side of form.

Well Permit Number of the well being plugged _____ **or**
MH File Number MH- _____ **Hole ID #/Name** SMW-05

Individual/Company responsible for plugging and sealing the well:

Name(s) CTI and Associates, Inc.

Mailing Address 51331 Pontiac Trail

City, St., Zip Wixom, MI 48393

Phone (area code & no.) 248.560.0703 Email: tmoore@cticompanies.com

Well (Hole) Owner:

NAME(S) Louis Hard, Hi-Tec Plastics Phone (include area code) 720-644-2460

Mailing Address, City, St., Zip 11380 E. Smith Rd., Aurora, CO 80010

ACTUAL WELL LOCATION: County Adams

Property Address, City, St, Zip 3555 Moline St., Aurora, CO 80010

_____1/4 of the____ 1/4, Sec. ____, Twp. _____ ☐ N. or ☐ S., Range _____ ☐ E. or ☐ W., _____ P.M.

Distance from Section Lines _____ Ft. from ☐ N. or ☐ S., _____ Ft. from ☐ E. or ☐ W. Line.

Subdivision Name _____ Lot _____, Block _____, Filing/Unit _____

Optional: GPS well location information in UTM format. You must check GPS unit for required settings as follows:

Format must be UTM, zone 12 ☐ or zone 13 ☒; Units must be meters; Datum must be NAD83; Unit must be set to true north.

Easting 512328 **Northing** 4401765

I (we) report the existing well (hole) was plugged and sealed on the date of _____ for the following reason(s):

☐ The well was plugged and sealed as required under Well Permit Number _____.

☐ The well was not in use and was plugged and sealed.

☒ Other (please explain) Well was abandoned as part of a contaminated soil removal.

The well was plugged with the following materials placed at the indicated intervals:

Amount and Type of Material	Method of Placement	Interval
Silica sand	Poured	from 16 feet to 20 feet
Bentonite chips	Poured	from 5 feet to 16 feet
		from _____ feet to _____ feet
Intervals of casing removed/ripped in feet		from 0 feet to 5 feet

Report must be signed or name entered by person who performed the well plugging work or by the well owner if this person is unknown or not reachable. I (we) have read the statements made herein, know the contents thereof, and that they are true to my (our) knowledge.

Sign or enter full name	If signing print name & title	Date (mm/dd/yyyy)

It is the responsibility of the well owner to have the well/hole properly plugged and sealed. The Well Construction Contractor is responsible for notifying the owner of this requirement.

Summary

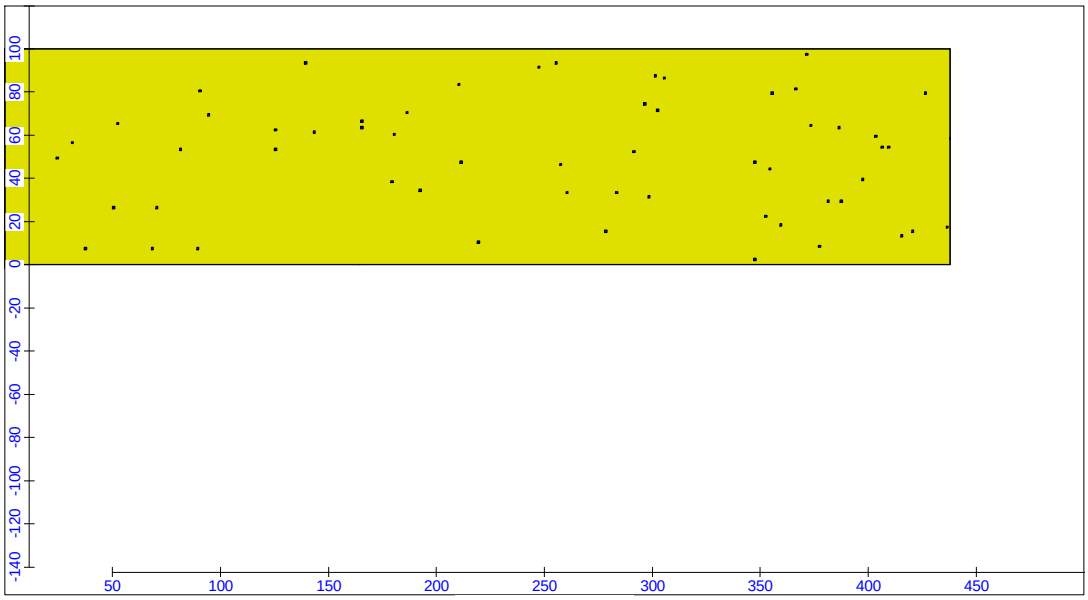
This report summarizes the sampling design developed by VSP based on inputs provided by the VSP user.

The hypergeometric model used in this compliance sampling design requires that each sample result can be categorized as a binary outcome, such as 1) the presence or absence of a particular quality, 2) a sample result being acceptable or unacceptable as defined by an action level threshold, 3) contamination being detected or not detected, etc. This statistical sampling approach employed here is known as Compliance Sampling for Attributes (Schilling and Neubauer 2009).

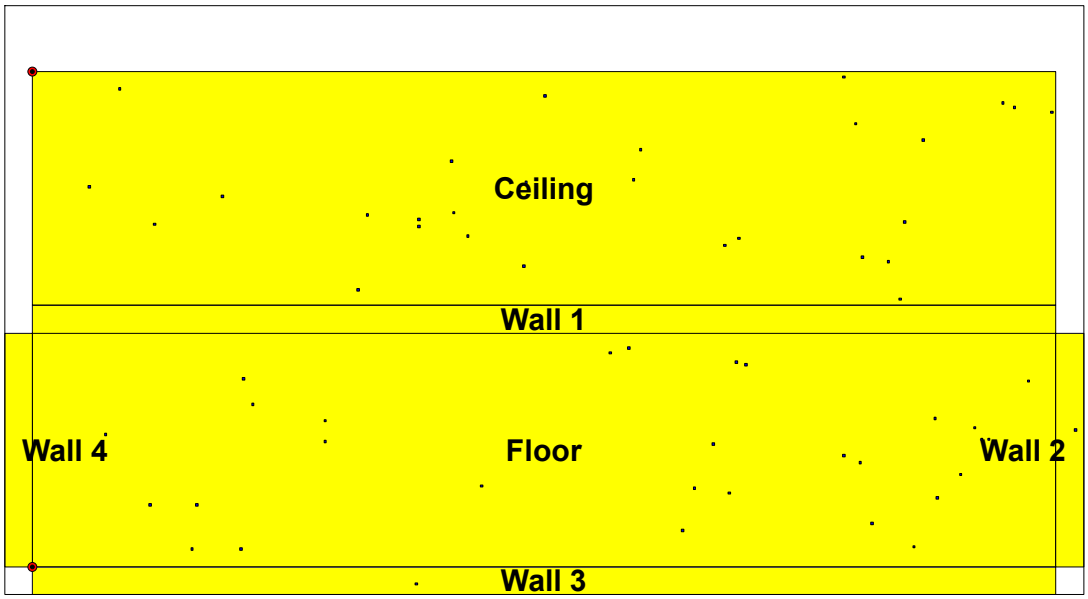
The following table summarizes the sampling design. Figures that show the grid unit placement and a table that lists the grid unit locations are also provided below.

SUMMARY OF SAMPLING DESIGN	
Primary Objective of Design	Achieve high certainty that few grid units in the site are unacceptable
Type of Sampling Design	Square grid units
Formula for calculating the number of grid cells that must be sampled and found to be acceptable to achieve desired confidence	Hypergeometric model with Jaech approximation (described below)
Number of selected sample areas	1
Sampling surface area	100512.00 ft^2
Grid unit side length	1 feet
Possible number of grid units [a]	100512
Actual possible number of grid units on map [b]	100512
Desired minimum percentage of sampling area that is acceptable	95%
Desired confidence that desired percentage of sampling area is acceptable	95%
Number of grid cells that must be sampled and found to be acceptable to achieve desired confidence[c]	59
Actual number of grid units on map marked for sampling [d]	59
Area to be sampled (Area under the grid units)	59.00 ft^2
Total cost of sampling [e]	$7,000.00

[a] This is the total number of grid cells (*N*) used to calculate how many grid units must be sampled (*n*).
[b] The actual possible number of grid units on the map may differ from the number used in calculations due to 1) rounding effects of room surface areas, 2) manually entering the number of grid units, or 3) selecting or unselecting sample areas.
[c] This is the calculated number of grid cells to be sampled in order to achieve the desired confidence criteria(*n*).
[d] The actual number of grid units to be sampled on the map may differ from the calculated number (*n*) due to 1) rounding effects of room surface areas, or 2) selecting or unselecting sample areas.
[e] See the Cost of Sampling section for an explanation of the costs presented here.



Floor Plan Map



Current Room View

Area: Moline Site											
X Center	**Y Center**	**Z Center**	**Label**	**Value**	**Type**	**Surface**	**LX**	**LY**	**Row**	**Col**	**Judgment**
68.5000	7.5000	0.0000			Grid Cell	Floor	68.5000	7.5000	8	69	
89.5000	7.5000	0.0000			Grid Cell	Floor	89.5000	7.5000	8	90	
377.5000	8.5000	0.0000			Grid Cell	Floor	377.5000	8.5000	9	378	
278.5000	15.5000	0.0000			Grid Cell	Floor	278.5000	15.5000	16	279	
359.5000	18.5000	0.0000			Grid Cell	Floor	359.5000	18.5000	19	360	
50.5000	26.5000	0.0000			Grid Cell	Floor	50.5000	26.5000	27	51	
70.5000	26.5000	0.0000			Grid Cell	Floor	70.5000	26.5000	27	71	
387.5000	29.5000	0.0000			Grid Cell	Floor	387.5000	29.5000	30	388	
298.5000	31.5000	0.0000			Grid Cell	Floor	298.5000	31.5000	32	299	

283.5000	33.5000	0.0000			Grid Cell	Floor	283.5000	33.5000	34	284		
192.5000	34.5000	0.0000			Grid Cell	Floor	192.5000	34.5000	35	193		
397.5000	39.5000	0.0000			Grid Cell	Floor	397.5000	39.5000	40	398		
354.5000	44.5000	0.0000			Grid Cell	Floor	354.5000	44.5000	45	355		
347.5000	47.5000	0.0000			Grid Cell	Floor	347.5000	47.5000	48	348		
291.5000	52.5000	0.0000			Grid Cell	Floor	291.5000	52.5000	53	292		
125.5000	53.5000	0.0000			Grid Cell	Floor	125.5000	53.5000	54	126		
406.5000	54.5000	0.0000			Grid Cell	Floor	406.5000	54.5000	55	407		
409.5000	54.5000	0.0000			Grid Cell	Floor	409.5000	54.5000	55	410		
31.5000	56.5000	0.0000			Grid Cell	Floor	31.5000	56.5000	57	32		
403.5000	59.5000	0.0000			Grid Cell	Floor	403.5000	59.5000	60	404		
125.5000	62.5000	0.0000			Grid Cell	Floor	125.5000	62.5000	63	126		
386.5000	63.5000	0.0000			Grid Cell	Floor	386.5000	63.5000	64	387		
94.5000	69.5000	0.0000			Grid Cell	Floor	94.5000	69.5000	70	95		
426.5000	79.5000	0.0000			Grid Cell	Floor	426.5000	79.5000	80	427		
90.5000	80.5000	0.0000			Grid Cell	Floor	90.5000	80.5000	81	91		
305.5000	86.5000	0.0000			Grid Cell	Floor	305.5000	86.5000	87	306		
301.5000	87.5000	0.0000			Grid Cell	Floor	301.5000	87.5000	88	302		
247.5000	91.5000	0.0000			Grid Cell	Floor	247.5000	91.5000	92	248		
255.5000	93.5000	0.0000			Grid Cell	Floor	255.5000	93.5000	94	256		
347.5000	2.5000	12.0000			Grid Cell	Ceiling	347.5000	2.5000	3	348		
37.5000	7.5000	12.0000			Grid Cell	Ceiling	37.5000	7.5000	8	38		
219.5000	10.5000	12.0000			Grid Cell	Ceiling	219.5000	10.5000	11	220		
415.5000	13.5000	12.0000			Grid Cell	Ceiling	415.5000	13.5000	14	416		
420.5000	15.5000	12.0000			Grid Cell	Ceiling	420.5000	15.5000	16	421		
436.5000	17.5000	12.0000			Grid Cell	Ceiling	436.5000	17.5000	18	437		
352.5000	22.5000	12.0000			Grid Cell	Ceiling	352.5000	22.5000	23	353		
381.5000	29.5000	12.0000			Grid Cell	Ceiling	381.5000	29.5000	30	382		
260.5000	33.5000	12.0000			Grid Cell	Ceiling	260.5000	33.5000	34	261		
179.5000	38.5000	12.0000			Grid Cell	Ceiling	179.5000	38.5000	39	180		
257.5000	46.5000	12.0000			Grid Cell	Ceiling	257.5000	46.5000	47	258		
211.5000	47.5000	12.0000			Grid Cell	Ceiling	211.5000	47.5000	48	212		
24.5000	49.5000	12.0000			Grid Cell	Ceiling	24.5000	49.5000	50	25		
81.5000	53.5000	12.0000			Grid Cell	Ceiling	81.5000	53.5000	54	82		
180.5000	60.5000	12.0000			Grid Cell	Ceiling	180.5000	60.5000	61	181		
143.5000	61.5000	12.0000			Grid Cell	Ceiling	143.5000	61.5000	62	144		
165.5000	63.5000	12.0000			Grid Cell	Ceiling	165.5000	63.5000	64	166		
373.5000	64.5000	12.0000			Grid Cell	Ceiling	373.5000	64.5000	65	374		
52.5000	65.5000	12.0000			Grid Cell	Ceiling	52.5000	65.5000	66	53		
165.5000	66.5000	12.0000			Grid Cell	Ceiling	165.5000	66.5000	67	166		

186.5000	70.5000	12.0000			Grid Cell	Ceiling	186.5000	70.5000	71	187	
302.5000	71.5000	12.0000			Grid Cell	Ceiling	302.5000	71.5000	72	303	
296.5000	74.5000	12.0000			Grid Cell	Ceiling	296.5000	74.5000	75	297	
355.5000	79.5000	12.0000			Grid Cell	Ceiling	355.5000	79.5000	80	356	
366.5000	81.5000	12.0000			Grid Cell	Ceiling	366.5000	81.5000	82	367	
210.5000	83.5000	12.0000			Grid Cell	Ceiling	210.5000	83.5000	84	211	
139.5000	93.5000	12.0000			Grid Cell	Ceiling	139.5000	93.5000	94	140	
371.5000	97.5000	12.0000			Grid Cell	Ceiling	371.5000	97.5000	98	372	
164.5000	0.0000	7.5000			Grid Cell	Wall 3	273.5000	7.5000	8	812	
438.0000	58.5000	8.5000			Grid Cell	Wall 2	41.5000	8.5000	9	480	

Primary Sampling Objective
The primary objective of the sampling design in this decision area is to achieve high confidence that at least a high percentage of the decision area is acceptable.

Selected Sampling Approach
The specified sampling approach was random grid unit sampling using a compliance sampling method based on the hypergeometric distribution. The approach requires that all surfaces in the decision area be divided into non-overlapping, equal-size grid cells of specified size that correspond to the sampling methodology, i.e., 1 feet x 1 feet.

The compliance sampling design is especially suited for use in decision areas where unacceptable grid cells are deemed unlikely. If at any time during the sampling process, one of the samples is unacceptable, the decision area is declared to be unacceptable and no further samples *for this design* need be taken.

The size of the grid cell should correspond to the "footprint" of the sampling methodology (e.g. the area sampled by a swab, wipe, or vacuum). If more than one sampling methodology is to be employed in a decision area, the size of the grid cell should be chosen to match the sampling methodology with the smallest sampling area. Samples taken using methodologies that cover larger areas should be located in a consistent fashion, i.e. the sample is centered on the smaller grid cell, or the upper-left corners of the larger sample is aligned with the upper-left corner of the assigned grid cell, etc. While this approach to multiple sampling methodologies is conservative, it ensures that the desired confidence level is preserved.

Decision Rule
If 59 of the 100512 grid cells are selected using random sampling and all 59 are identified as acceptable, then you will be 95% confident that at least 95% of the grid cells in the decision area are acceptable.

Calculating the Sample Size
The method discussed here is similar to the approach used by Bowen and Bennett (1988). The approach is based on a test of the null hypothesis that the fraction of the decision area that is unacceptable is higher than a desired level, *P*. If no unacceptable grid cells are observed in the sample, then the null hypothesis is rejected and we may conclude with (1-α)x100% confidence that at least (1-*P*)% of the grid cells in the decision area are acceptable. Given the desired confidence level, 1-α, the total number of grid cells, *N*, and the desired fraction of acceptable grid cells, 1-*P*, the following equation is used to calculate the required sample size:

$$n \approx \left\lceil 0.5\left(1-\alpha^{1/V}\right)\left(2N-V+1\right)\right\rceil$$

where $V = \max(1, PN)$.

Table of Inputs and Outputs

Symbol	Description	Value
Inputs		
N	Total number of grid cells	100512
1-α	Desired confidence that 1-*P* x 100% of the grid cells are acceptable	0.95

1-*P*	Desired proportion of decision area that is acceptable	0.95
Outputs		
n	Number of random samples required to achieve the confidence criteria	59

Assumptions that Underlie Compliance Sampling

1. The size of the grid unit has been determined to be appropriate for the measurement (inspection) method to be performed. For example, an appropriate grid unit size might be a 10cm by 10cm surface area.
2. The total number of grid units in the decision area, *N*, is known.
3. All *N* grid units are the same size.
4. *n* of the *N* grid units are selected using random sampling.
5. The *n* selected grid units are representative of the total population of *N* grid units.
6. Each of the *n* grid units are measured or inspected using an approved method.
7. Each sample is correctly classified as being acceptable or unacceptable (no false positives or false negatives).

Cost of Sampling

The total cost of the completed sampling program depends on several cost inputs, some of which are fixed, and others that are based on the number of sample areas and grid units. Based on the numbers of grid units determined above, the estimated total cost of sampling this site is $7,000.00. Note: these costs are for the sampling effort only, and do not include any cleanup or follow-up investigations. The following table summarizes the inputs and resulting cost estimates.

COST INFORMATION			
Cost Details	**Cost / Unit**	**Units**	**Total**
Collection costs	$100.00 / grid unit	59 grid units	$5,900.00
Setup costs	$100.00 / area	1 areas	$100.00
Fixed planning and validation costs			$1,000.00
Total cost			**$7,000.00**

References

Bowen, M.W. and C.A. Bennett. 1988. *Statistical Methods for Nuclear Material Management*, NUREG/CR-4604, U.S. Nuclear Regulatory Commission, Washington, DC

Jaech, J.L. 1973. *Statistical Methods in Nuclear Material Control*, TID-26298, NTIS, Springfield, Virginia.

Schilling, E.G. and D.V. Neubauer. 2009. *Acceptance Sampling in Quality Control, 2nd ed.* CRC Press, Taylor & Francis Group, NY.

Squeglia, N.L. 1994, *Zero Acceptance Number Sampling Plans*. ASQ Quality Press, Milwaukee, WI.

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Software and documentation available at http://vsp.pnnl.gov

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* - The report contents may have been modified or reformatted by end-user of software.

1. Building C – pre-demolition.

2. Building C demolition.

3. Building C demolition completed.

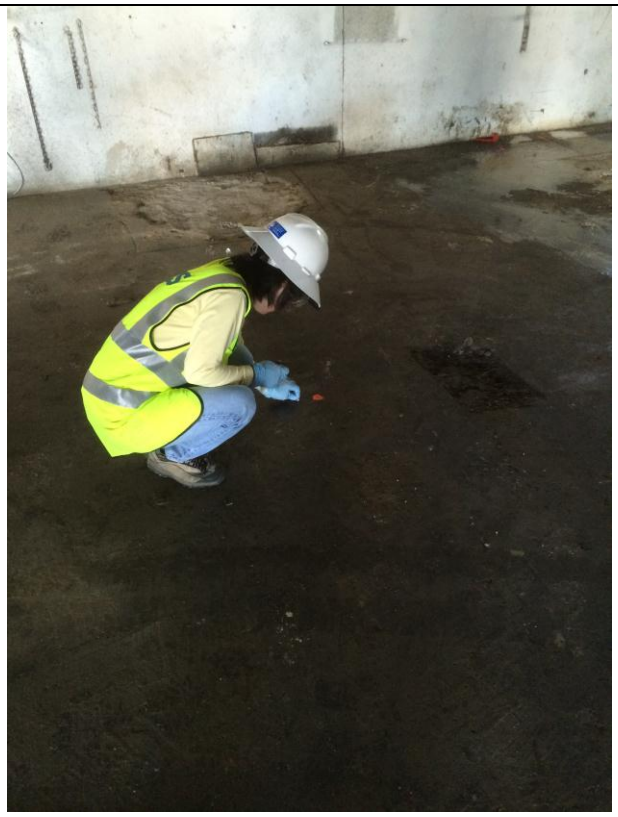
4. Building D foundation test pad.

5. Building D concrete demolition.

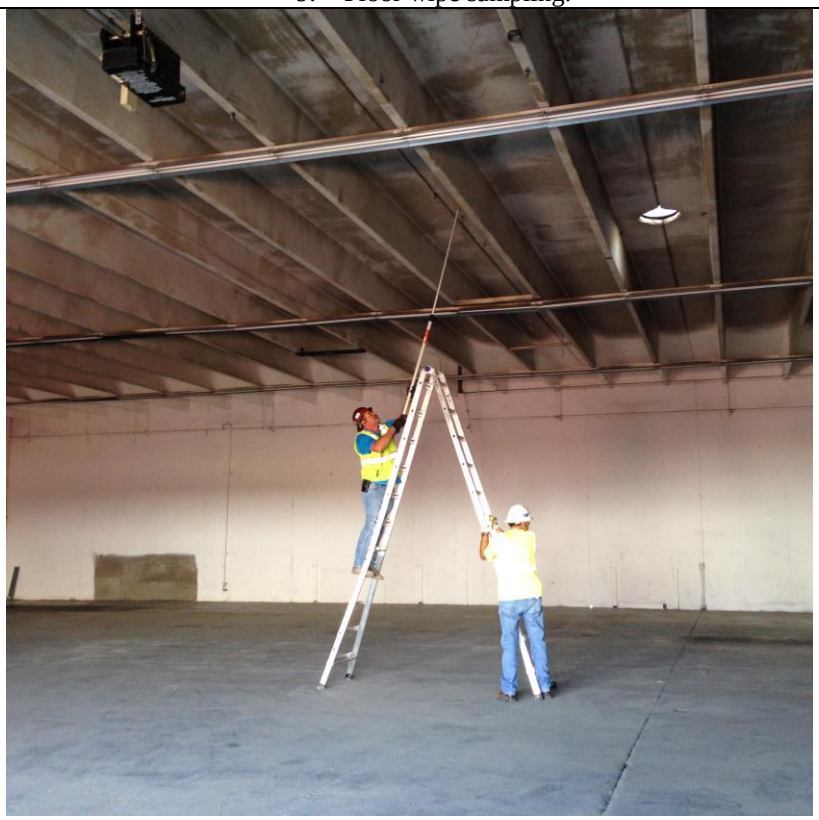
6. Building D – concrete demolition and plastic sheeting between Buildings D and E.

7. Building D - press pit demolition.

8. Building D - press pit demolition.

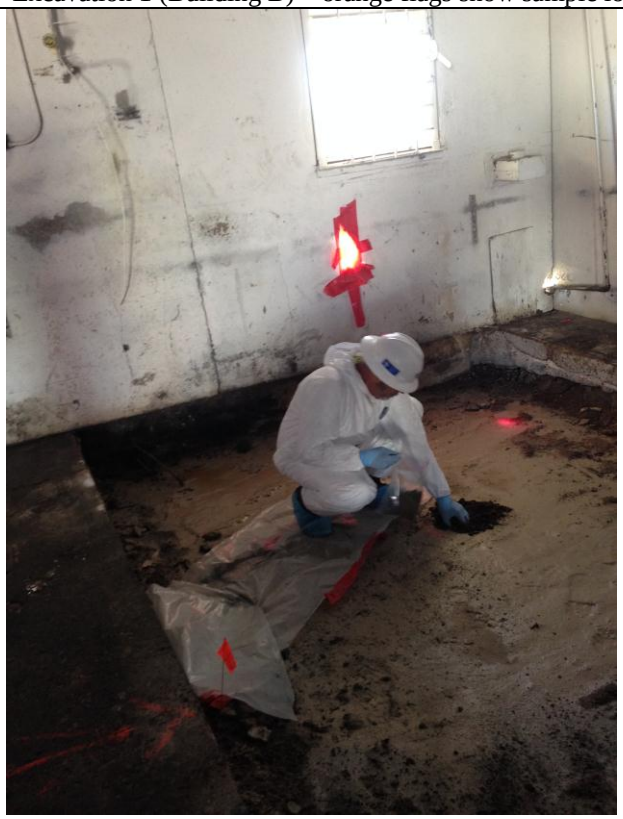


9. Floor wipe sampling.

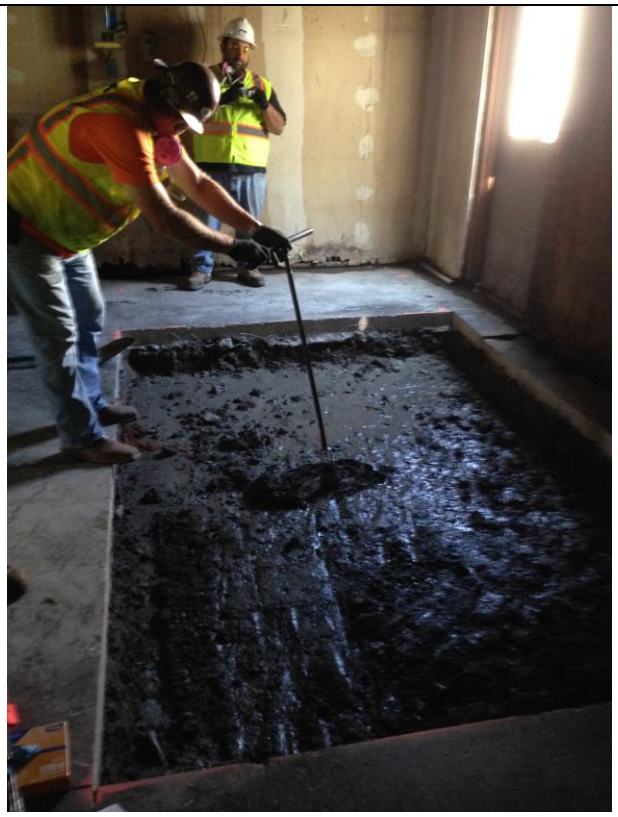


10. Ceiling wipe sampling.

11. Excavation 1 (Building B) – orange flags show sample locations.



12. Excavation 2 (Building D) sampling – orange flags show sample locations.



13. Excavation 3 (Building F) sampling.

14. Excavation 4 (former Building C) – orange flags show sample locations.

15. Excavation 5 (Building D) - orange flags show sample locations.

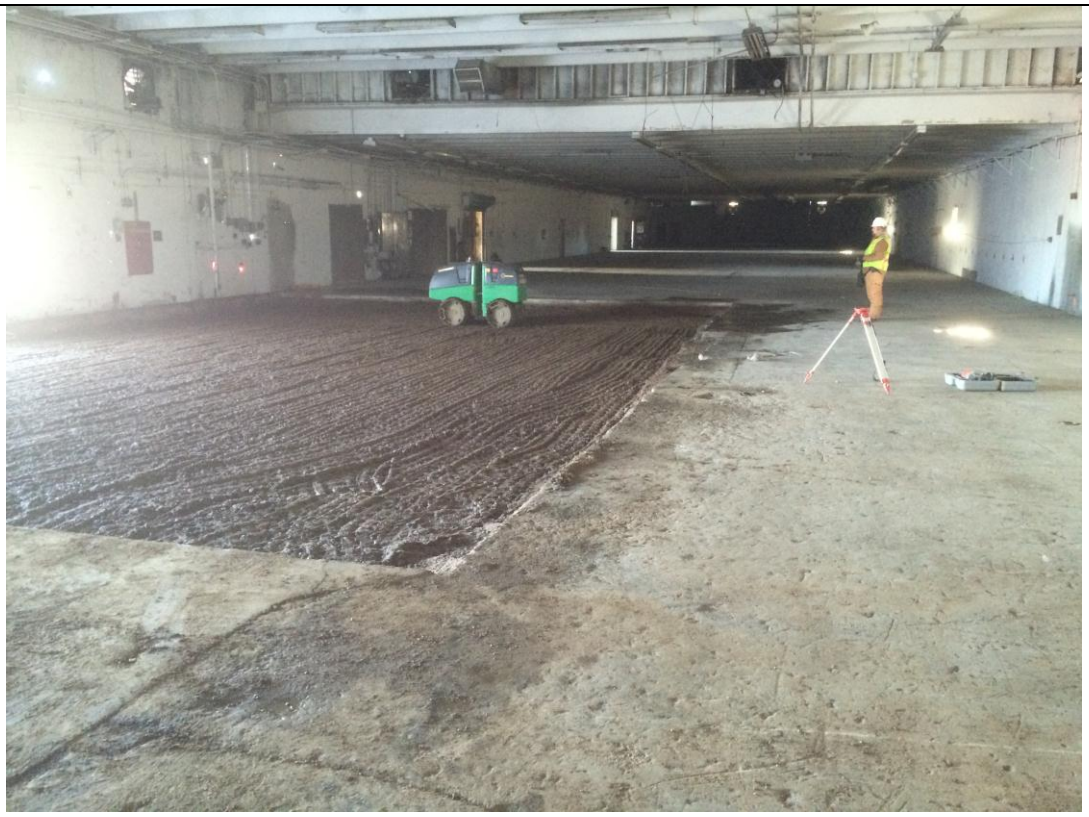
16. Excavation 6 (former Building C) - orange flags show sample locations.

17. Excavation 7 (Building D, looking east) - orange flags show sample locations.

18. Excavation 7 (Building D, looking west) - orange flags show sample locations.

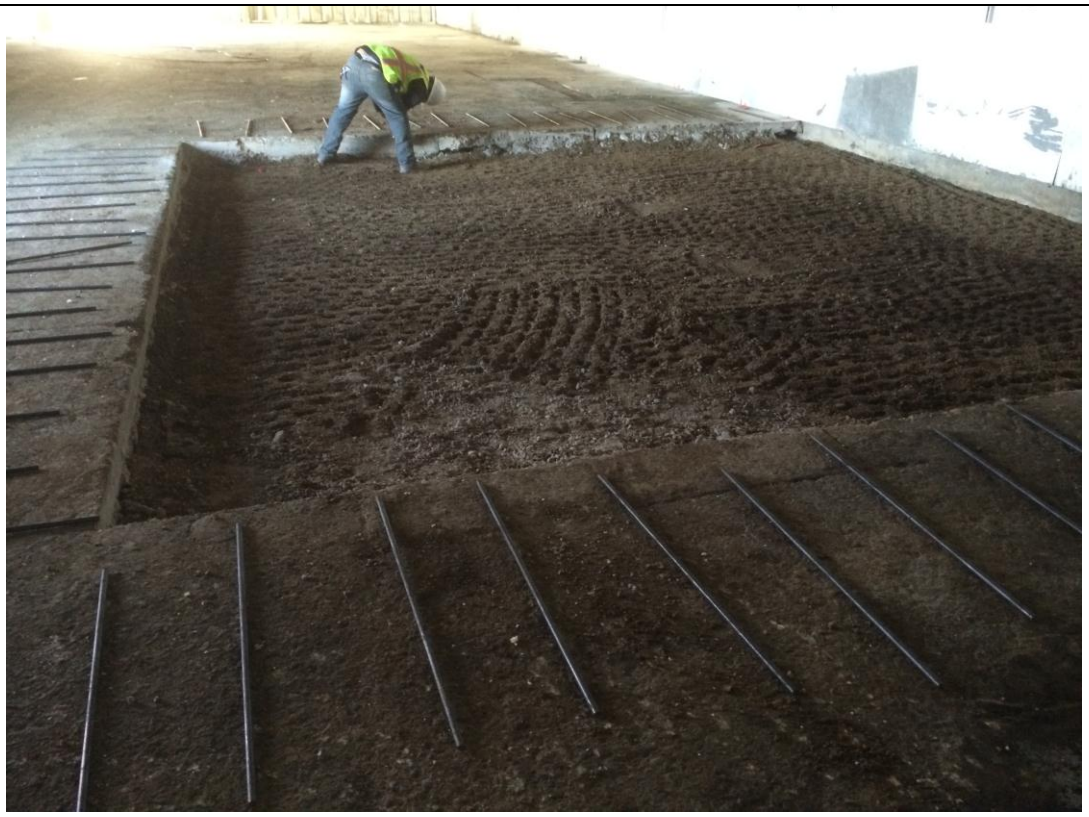
19. Excavation 7 (Building D, looking north) - orange flags show sample locations.

20. Excavation 7 (Building D, looking northwest) - orange flags show sample locations.



21. Compacting backfill material – Excavation 7 (Building D)

22. Compacted backfill material – Excavation 5 (Building D).



23. Compacted backfill material – Excavation 1 (Building B).

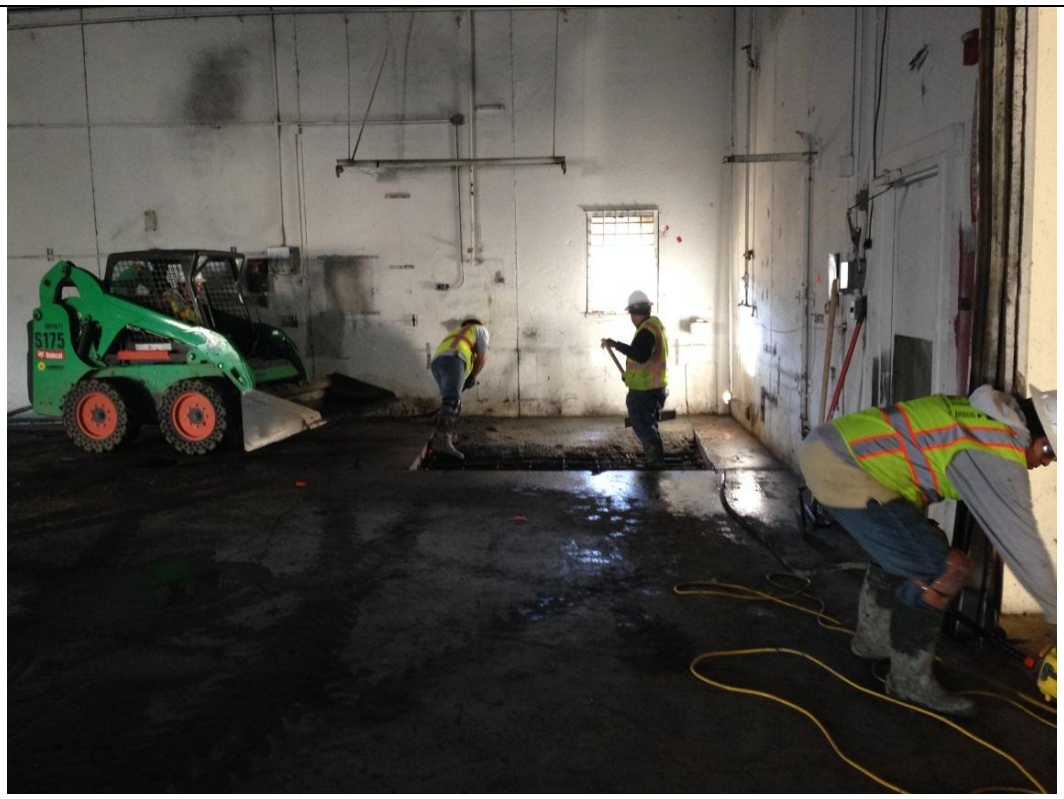
24. Compacting backfill material – Excavation 4 (former Building C).

25. Compaction testing – Excavation 4 (former Building C).

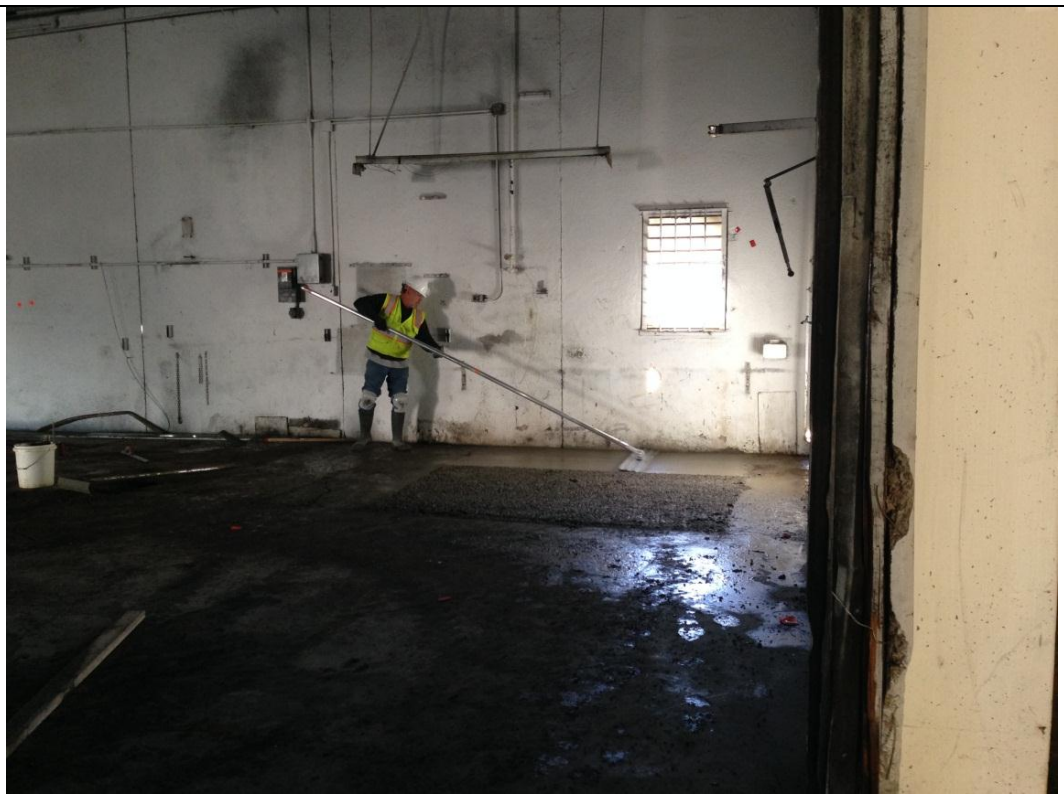
26. Excavation 1 (Building B) slab prior to concrete placement.

27. Using chute from concrete truck to place Excavation 1 (Building B) concrete.

28. Excavation 1 (Building B) slab post construction.



29. Placing concrete in SW corner of Building D (Excavation 2). Note use of skid steer to deliver concrete to slab location.



30. Finishing concrete in SW corner of Building D (Excavation 2).

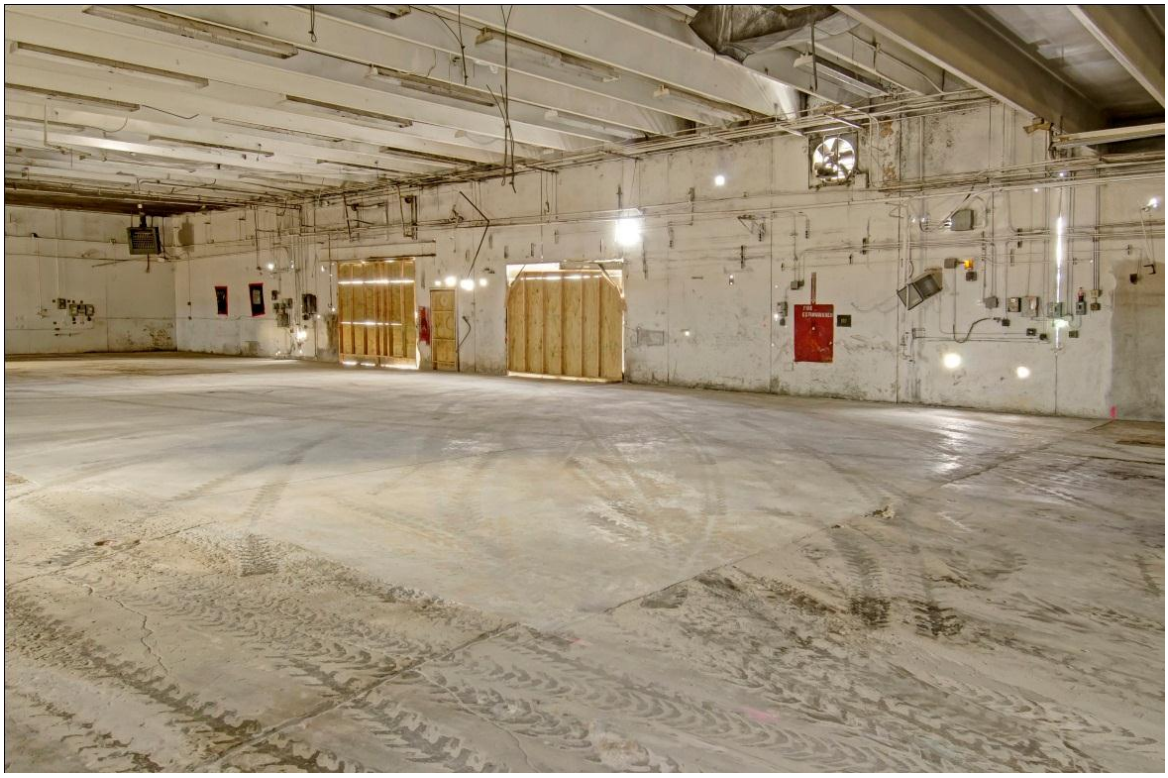
31. Slab in SW corner of Building D (Excavation 2) post construction.

32. Placement of concrete at Building F (Excavation 3).

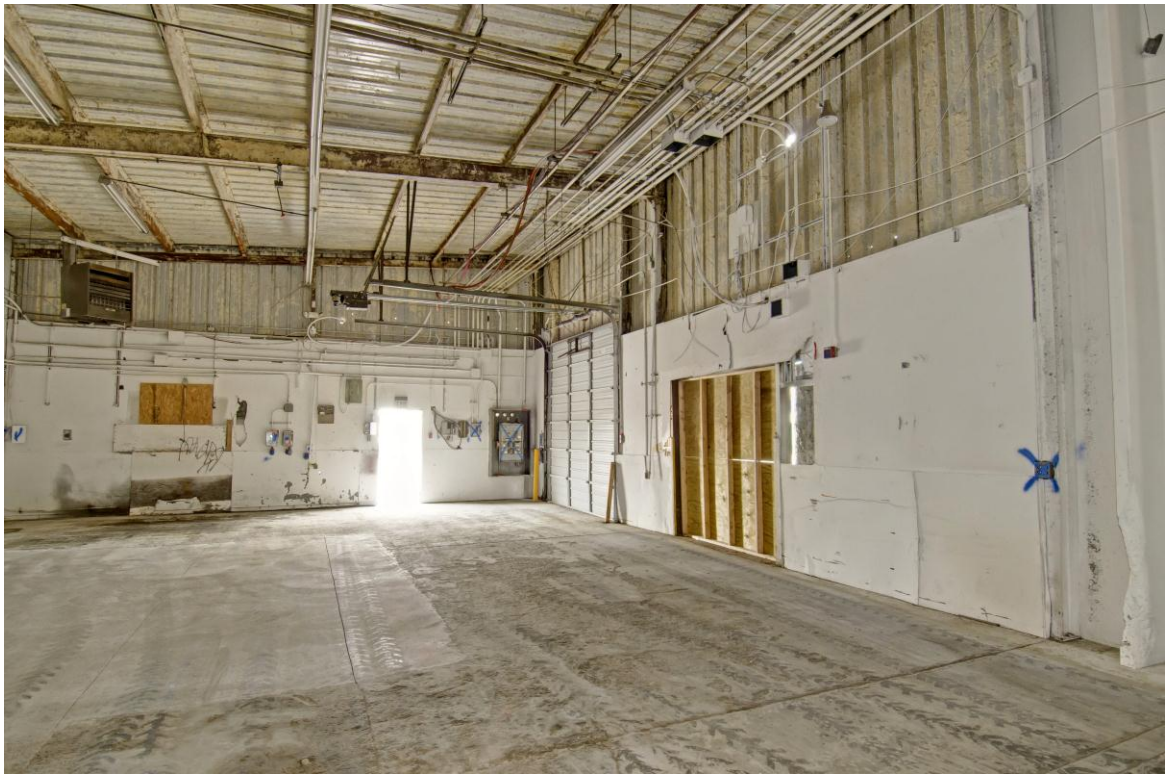
33. Finishing slab in Building F (Excavation 3).

34. Building D (Excavation 7) prior to concrete placement.

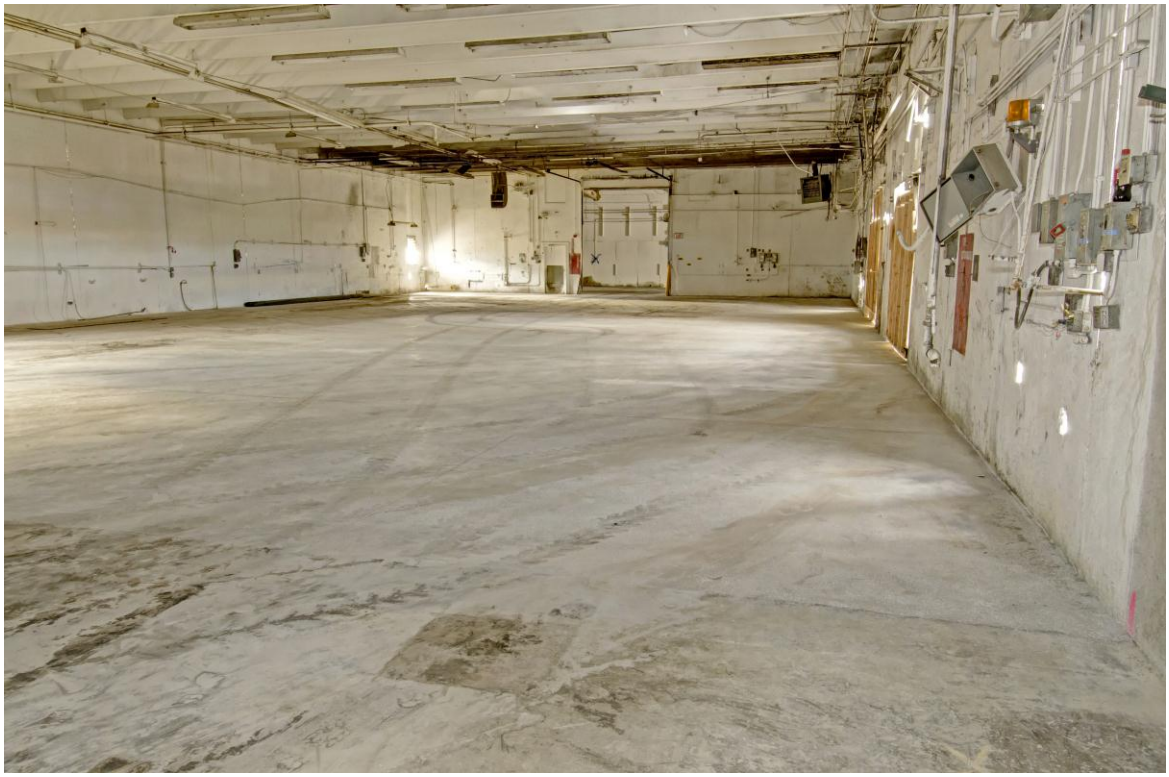
35. Placing concrete in NW corner of Building D (Excavation 6).



36. Post construction photo of Northern Slab in Building D (Excavation 7) - 11/20/14.



37. Building B post removal looking north - 11/20/14.



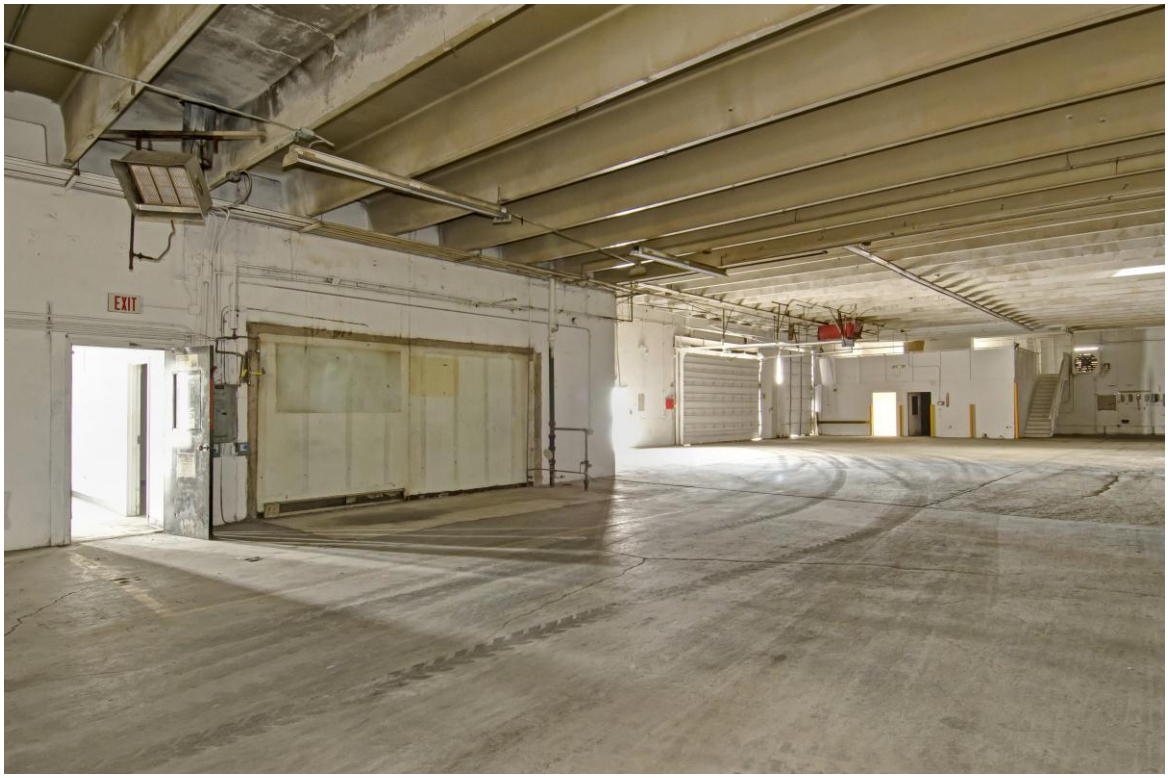
38. Building D post removal looking west - 11/20/14.

39. Building D post removal looking northeast - 11/20/14.

40. Building E post removal looking east - 11/20/14.

41. Building F post removal looking east. Floor feature is rebar covered with red tape for visibility - 11/20/14.

42. Building G post removal looking west - 11/20/14.



43. Building H post removal looking east - 11/20/14.

44. Building I post removal looking northeast - 11/20/14.

45. Former Building C post removal – 11/20/14.

URS

Trip Report

Date: September 3, 2014

To: Sarah Lave, URS

CC: Ronnie Weeks, CTI and Associates, Inc.

From: Paulo Virreira, URS

Subject: Moline Street PCB Site – Double Tee Wall Foundation Test Pad

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I visited the Moline Street PCB remediation site on September 3, 2014. The purpose of the visit was to observe the double tee wall foundation test pad.

Weather on site was clear and approximately 80 degrees Fahrenheit.

Upon arrival, I walked the site with URS representative Sarah Lave and Ronnie Weeks, superintendent for CTI. I observed the exposed test pad, located directly north of the existing press pit pad, at a location coincident with a joint in the double tee wall panels. The test pad exposed the top of the double tee wall footing (located approximately 2ft below the top of the existing slab) and provided some insight as to the stem/footing connection. The double tee walls appear to be supported primarily at the tees with plate supports provided intermittently (an intermediate support was observed near the panel joint within the limits of the exposed test pad). Leveling grout appears to have been used to make sure the tees are sitting directly on the footing and steel plates used for lateral support at the tee locations. Based on the exposed test pad, it appears that the footing was constructed first and then the precast walls set into place (a common construction sequence for precast elements). In addition to observations of the footing, the exposed walls were reviewed and observed to be in relatively good condition. The demolished slab appeared to have welded wire mesh for reinforcement with no structural connection to the walls. Mr. Weeks pointed out that cables were observed to have been embedded into the concrete slab, and while these cables do provide a connection between the slab and the walls, it appears that these cables were used during construction for picking the walls and were not intended to provide lateral restraint (causing the slabs to act like a diaphragm).

In addition to my observations of the test pad and the footing tee wall footing connection, I discussed CTI's proposed demolition methods with Mr. Weeks and observed the use of his large pneumatic hammer attachment to demo the existing concrete slab. I also spoke with Mrs. Lave regarding the expected extents of the excavation. Based on a review of the drawings and discussions held onsite with Mrs. Lave and Mr. Weeks, it is my understanding that the deepest impacted soil, as determined by URS' 2014 exploratory drilling program, is located directly south of the test pad. The current proposed remediation limits would require an excavation about 6ft below the existing top of slab elevation which would correspond to an excavation about 4ft below the current top of footing (at a location approximately 10ft south of the stem wall). Based on this information, a discussion was held between Mr. Weeks, Mrs. Lave, and myself regarding the importance of providing protection for the wall footers during excavation activities.

Based on my observations of the double tee walls, the exposed footers, CTI's proposed demolition methods, and the current expected limits of the remediation effort, I recommend the following path forward to complete the demolition efforts while minimizing impact to the adjacent existing structures.

- Sequence the demolition such that concrete is saw cut for a minimum distance of 2ft from the existing walls and removed prior to further demolition of the slab on either side of the wall. Therefore, the slab adjacent to the walls within the building should be removed prior to demo of the slab within the building. In addition, removal of the slab adjacent to the wall on the exterior of the building should occur prior to demo of the slab on the exterior. This should help to reduce the disturbance on the walls during demolition of the slabs.
- The portion of the slab that is saw cut for removal around the walls (limits described above) should be removed using a less-destructive method (i.e. picked out with a bucket, shovel, etc). Use of either pneumatic hammer attachment around the walls for demolition of the slab should be avoided. A small 90lb pneumatic hammer can be used locally for demolition of concrete around any embedded cables but their use should be limited to the locations immediately surrounding the embedded cables only.
- Once the slab has been removed around the wall, the smaller pneumatic hammer should be used to demolish the slab at all locations where the slab thickness is less than 12in.
- The current drawings show a clearance of 3ft from the stem of the tee wall before beginning the sloped excavation below the top of the footer. This limit should be revised to begin from the edge of the footer. Therefore, a clearance of 3ft should be maintained from the edge of the footer prior to excavating below the top of the footing. The excavation slopes should be in accordance with the project specifications.
- Any embedded items uncovered during demolition of the slab along the wall (i.e. cables) should be protected and cast back into the new concrete slab. Please notify me if any other embedded items are discovered during demolition of the concrete along the wall.

Photograph 1: View of the test pad and exposed top of footing on the exterior of the building (photo taken facing south).

Photograph 2: Right side of test pad with the intermediate support shown in the center of the photo and the embedded plate at the tee support on the right side of the photo (photo taken facing south).

Photograph 3: South side of the test pad with cables that were found to be embedded in the existing slab (photo taken facing west).

Photograph 4: Photo of test pit at panel joint. Square slab in the right side of the photo is the location of the expected deepest impacted soil, as determined from URS' 2014 drilling investigation (photo taken facing east).

URS

Trip Report

Date: November 7, 2014

To: Sarah Lave, URS

CC:

From: Paulo Virreira, URS

Subject: Moline Street PCB Site – Reinforcement/Subgrade Inspection

---

I visited the Moline Street PCB remediation site on November 7, 2014. The purpose of the visit was to perform a final inspection of the subgrade and reinforcement prior to next week's planned concrete placement. This document should serve to summarize my comments/observations from the inspection.

In general, I found all areas poised to receive concrete in good condition and in general conformance with our Project Specifications. After speaking with Ronnie Weeks I understand that CTI is planning on two separate placements as follows.

Monday 11/10/14

- NW area of Building B
- East end of Building F
- SW Corner of Building D
- NW area of Building D

Wednesday 11/12/14

- Press Pit and 1800 Ton Press Pad Area in Building D
- Monitor Well BG-06 Area in Building D

Unfortunately, reinforcement was not tied and ready for inspection within the region that will be placed on 11/12/14 but I was able to inspect the entire proposed 11/10/14 placement area. A summary of my comments/observations for the areas inspected today follows below.

- Bond breaker was properly applied at all contraction joint locations and the dowel bars coated with bond breaker in accordance with the project drawings/specs.
- Reinforcement was tied within acceptable tolerances on a 12"x12" grid. The ties were such that the bars were not loose and well secured.
- Dowels were embedded into the existing slabs sufficiently to be developed.
- Per the approved concrete placement submittal, existing cables should not be coated with bond breaker compound. I noted that cables along the north side of Building D were coated with bond breaker compound and needed to be cleaned off prior to Monday's placement. Ronnie Weeks addressed this issue during my inspection and the cables were cleaned.
- Due to the shallow depth of the existing concrete slabs around the perimeter of the new placement areas, the depth to the top of the dowels varies and falls below 2.5in at some locations. I noted that the saw blade should be raised when cutting

within 1ft of existing concrete at all new slab locations. Ronnie Weeks agreed to this measure.

- Some loose aggregates were noted within some of the placement regions. Again, Ronnie Weeks addressed the issue while I was onsite and a laborer was assigned to removing the loose material.
- Reinforcement is drooping lower than the proposed 2.5in in some areas within the proposed concrete placements. These areas were found to be fairly localized and shouldn't be an issue structurally.

Some additional general points of discussion surrounded the potential for cold weather during the proposed 11/12/14 placement. In conformance with our Project Specifications, Ronnie Weeks and I reviewed ACI 306R (Guide to Cold Weather Concreting) to establish the subgrade temperature limit, associated concrete delivery temperature requirements, and a protection plan for the concrete during curing. I understand that CTI is planning on renting large diesel powered space heaters to heat Building D in advance of the 11/12/14 placement. This should help prevent freezing of the subgrade prior to placement and/or development of a large temperature gradient during curing. In accordance with ACI 306R, I've asked Mr. Weeks to request that the concrete for 11/12/14 placement be batched closer to the lower 50° F temperature limit. Also, I've asked Mr. Weeks to heat Building D for at least 24hrs after placement has occurred, at which time, plastic could be used to cover the area to continue to hold in the heat generated from the curing process and continue to protect the slab from the cold evening temperatures.

Based on my inspection today, all areas proposed to receive concrete on 11/10/14 are approved for concrete placement. Please note that I plan on being back onsite first thing on 11/10/14 to observe the concrete placement/testing and inspect the reinforcement for the 11/12/14 placement.

URS

Trip Report

Date: November 10, 2014

To: Sarah Lave, URS

CC:

From: Paulo Virreira, URS

Subject: Moline Street PCB Site – Reinforcement/Subgrade Inspection

---

I visited the Moline Street PCB remediation site on November 10, 2014. The purpose of the visit was to observe the placement and testing of the concrete slab. This document should serve to summarize my comments/observations from the day's activities.

Upon my arrival, I found all areas poised to receive concrete in good condition and in general conformance with our Project Specifications. The areas in which concrete was placed today included:

- NW area of Building B
- East end of Building F
- SW Corner of Building D
- NW area of Building D

A summary of my comments/observations for the areas inspected today follows below.

- All locations poised to receive concrete were moistened to a saturated surface dry condition prior to concrete placement, as per the Project Specifications.
- Reinforcement/dowels were all in position as noted during 11/7/14 inspection.
- Formwork delineating the end of the placement in the NW area of Building D was in place and ready to receive concrete (this was not observed during the 11/7/14 inspection).
- Concrete arrived onsite at about 8:00am. Due to access constraints, a skid steer was used to track concrete to some of the harder to reach locations in Building F, Building B, and Building D. Whenever possible, the chute was used to place concrete.
- A total of 35cyds was delivered to the jobsite today (final quantities placed should be based on in place measurement of the concrete slab locations).
- All concrete delivered to the jobsite today was noted to be well within the .45 water/cement ratio specified in the Project Specifications (including moisture from the aggregates). The average w/c ratio for each batch was observed to be ~.38.
- Two sets of 5 cylinders were cast today, based on samples obtained from the first and third trucks, in accordance with the Project Specifications (one set of samples/tests per 25cyds placed). In addition to each set of cylinders, testing was conducted on the sampled concrete for air, slump, temperature, and unit weight per the Project Specifications.

- 1st Test Results: 6.9% Air, 3 ¾" Slump, 71° F (5 cylinders cast for compressive strength tests)
- 2nd Test Results: 5.4% Air, 2" Slump, 76° F (5 cylinders cast for compressive strength tests)

- Of the two sets of tests that were conducted, the first truck was found to be out of spec. with a 6.9% air content (Specifications note 4-6% range for air content). Since the truck was found to be well within the specified water/cement ratio (.37 actual vs. .45 required), revolutions were added to the truck to knock some of the additional air out of the batch. To this end, the total revolutions were increased from 116 to 200. In addition, a phone call was made to the concrete batch plant indicating the air should be reduced to fall within the specified 4-6% range for future loads. Note that the second set of tests indicated that the entrained air content was lowered at the plant.
- Vibrator was used consistently in an effort to achieve consolidation.
- Truck #3 was onsite and permitted to place beyond the 90 minute time window noted in the Project Specifications. This was permitted because the concrete was observed to still be workable at the point of placement and the initial set had not yet occurred. It should be noted that the ambient temperature dropped during placement which likely helped delay the initial set. Once the initial set was noted in the concrete being finished, the remaining concrete was rejected by CTI, and a final 2cyds ordered to complete the placement.
- Three diesel powered, 250,000 BTU heaters were observed to have been delivered to the site to warm the building for concrete curing/placement. CTI plans on setting them up prior to leaving the site today (11/10/14).
- Due to concrete placement today, the reinforcement for the proposed 11/12/14 placement was not ready for inspection during my site visit. An inspection will be made prior to the 11/12/14 placement and notes/observations provided at that time.

In closing, based on my inspection today, the concrete appears to have been placed in general conformance with our Project Specifications. I plan on being back onsite on 11/11/14 to inspect the reinforcement for the 11/12/14 placement.

Trip Report

Date: November 11, 2014

To: Sarah Lave, URS

CC:

From: Paulo Virreira, URS

Subject: Moline Street PCB Site – Reinforcement/Subgrade Inspection

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I visited the Moline Street PCB remediation site on November 11, 2014. The purpose of the visit was to perform a final inspection of the subgrade and reinforcement prior to the final concrete placement in Building D. This document should serve to summarize my comments/observations from the inspection.

In general, I found all areas poised to receive concrete in good condition and in general conformance with our Project Specifications. A summary of my comments/observations for the areas inspected today follows below.

- Bond breaker was properly applied at all contraction joint locations and the dowel bars coated with bond breaker in accordance with the project drawings/specs.
- Reinforcement was tied within acceptable tolerances on a 12”x12” grid. The ties were such that the bars were not loose and well secured.
- Dowels were embedded into the existing slabs sufficiently to be developed.
- Cables connected to the existing double tee walls were clean and in position to embed into the new concrete slab.
- Some loose aggregates were noted within some of the placement regions. Ronnie Weeks, CTI superintendent, addressed the issue while I was onsite and a laborer was assigned to removing the loose material.
- Reinforcement is drooping lower than the proposed 2.5in in some areas within the proposed concrete placements. These areas were found to be fairly localized and shouldn’t be an issue structurally.
- Three large diesel powered space heaters were in place and running at the time of my visit. In addition, CTI had blocked off several of the openings to contain the heat in Building D and had apparently been running the heaters for over 24hrs to keep the room and subgrade above freezing.

Some additional general points of discussion surrounded the potential for cold weather during the proposed 11/12/14 placement. Based on guidelines set forth in ACI 306R (Guide to Cold Weather Concreting), Mr. Weeks and I discussed the concrete delivery temperature requirements, and a protection plan for the concrete during curing. I understand that CTI is planning on covering the concrete with a tarp and running the heat from the three large diesel powered space heaters directly underneath the tarps to warm the ambient temperature immediately surrounding the concrete slab. This should help prevent the development of a large temperature gradient during curing.

Based on my inspection today, all areas proposed to receive concrete on 11/12/14 are approved for concrete placement. Please note that Bob Cover, URS construction manager, will observe the final placement and record observations of the placement in his daily report. Prior to leaving the site today, I spoke with Mr. Cover about the requirements of ACI 306R for cold weather placement and items to look for during placement. In addition, we reviewed the requirements for testing the concrete to ensure a sufficient number of concrete tests are conducted. Based on our conversation and my observation of CTI's 11/10/14 concrete placement, I'm confident that QA/QC on the final concrete placement will be properly conducted.

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Report Number: 25141623.0017
Service Date: 11/10/14
Report Date: 12/08/14 Revision 2 - 28-day results
Task: Concrete Testing

Terracon
10625 W I-70 Frontage Rd N Ste 3
Wheat Ridge, CO 80033
303-423-3300

Client

CTI and Associates, Inc.
Attn: Ronnie Weeks
51331 Pontiac Trail
Wixom, MI 48393

Project

Moline Street PCB Site Removal Action
3555 Moline St
Aurora, CO

Project Number: 25141623

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: 19618
Supplier: Ready Mixed Concrete
Batch Time: 0730 **Plant:** 12
Truck No.: 362 **Ticket No.:** 1111247

Sample Information

Sample Date: 11/10/14 **Sample Time:** 0815
Sampled By: Travis O. Whalen
Weather Conditions: Partly cloudy
Accumulative Yards: 9/33 **Batch Size (cy):** 9
Placement Method: Direct Discharge
Water Added Before (gal): 6
Water Added After (gal):
Sample Location: See Comments
Placement Location: See Comments

Field Test Data

Test	Result		Specification
Slump (in):	3 3/4		2 - 4
Air Content (%):	6.9	*	4 - 6
Concrete Temp. (F):	71		50 - 80
Ambient Temp. (F):	50		
Plastic Unit Wt. (pcf):	140.6		
Yield (Cu. Yds.):			

*** = Field Test Results do not meet project specifications.**

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Specimen Weight (lbs)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
1	1	4.00	12.57	11/11/14	8.30	11/17/14	7	70,140	5,580	1
1	2	4.00	12.57	11/11/14	8.30	12/08/14	28	82,380	6,560	1
1	3	4.00	12.57	11/11/14	8.30	12/08/14	28	76,910	6,120	4
1	4	4.00	12.57	11/11/14	8.30	12/08/14	28	78,430	6,240	2
							Average (28 days)		**6,310**	
1	5			11/11/14			Hold			

Comments: Average compressive strength of 28 day cylinders complies with the specified strength.

Sample Location: 2' south to 14' south x 1' west to 12' west from northeast corner of Building F, and 0' north to 10' north x 2' east to 10' east and 22' north to 26' north x 15' east to 19' east from southwest corner of Building D. Placement Location: 2' south to 14' south x 1' west to 12' west from northeast corner of Building F, and 0' north to 10' norht x 2' east to 10' east and 22' north to 26' north x 15' east to 19' east from southwest corner of Building D, 0' south to 11' south x 0' east to 46' east from northwest corner of Building D, and 13' south to 35' south x 0' east to 20' east from northwest corner of Building B. Paulo Virreira, a structural engineer with URS, approved the use of the concrete with a slightly high air content.

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Report Number: 25141623.0017
Service Date: 11/10/14
Report Date: 12/08/14 Revision 2 - 28-day results
Task: Concrete Testing

Terracon
10625 W I-70 Frontage Rd N Ste 3
Wheat Ridge, CO 80033
303-423-3300

Client

CTI and Associates, Inc.
Attn: Ronnie Weeks
51331 Pontiac Trail
Wixom, MI 48393

Project

Moline Street PCB Site Removal Action
3555 Moline St
Aurora, CO

Project Number: 25141623

Samples Made By: Terracon
Services: Cast Concrete Cylinders

Terracon Rep.: Travis O. Whalen
Reported To: Ronnie Weeks with CTI and Associates
Contractor:
Report Distribution:
(1) CTI and Associates, Inc., Emailed

Reviewed By: Jon D. Doudna, P.E.
Project Engineer

Test Methods: ASTM C 31, ASTM C39, ASTM C138, ASTM C143, ASTM C172, ASTM C231, ASTM C1064

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CR0001, 11-16-12, Rev.6

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Report Number: 25141623.0018
Service Date: 11/10/14
Report Date: 12/08/14 Revision 1 - 28-day results
Task:

Terracon
10625 W I-70 Frontage Rd N Ste 3
Wheat Ridge, CO 80033
303-423-3300

Client

CTI and Associates, Inc.
Attn: Ronnie Weeks
51331 Pontiac Trail
Wixom, MI 48393

Project

Moline Street PCB Site Removal Action
3555 Moline St
Aurora, CO

Project Number: 25141623

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: 19618
Supplier: Ready Mixed Concrete
Batch Time: 0833 **Plant:** 12
Truck No.: 320 **Ticket No.:** 1111281

Sample Information

Sample Date: 11/10/14 **Sample Time:** 1000
Sampled By: Travis O. Whalen
Weather Conditions: Cloudy and windy
Accumulative Yards: 27/33 **Batch Size (cy):** 10
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: Slab-on-grade at 13' south to 35' south x 0' east to 20' east from northwest corner of Building B
Placement Location: See Comments

Field Test Data

Test	Result	Specification
Slump (in):	2	2 - 4
Air Content (%):	5.4	4 - 6
Concrete Temp. (F):	76	50 - 80
Ambient Temp. (F):	42	
Plastic Unit Wt. (pcf):	141.8	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Specimen Weight (lbs)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
2	1	4.00	12.57	11/11/14	8.40	11/17/14	7	61,760	4,920	2
2	2	4.00	12.57	11/11/14	8.40	12/08/14	28	76,730	6,110	1
2	3	4.00	12.57	11/11/14	8.40	12/08/14	28	74,290	5,910	2
2	4	4.00	12.57	11/11/14	8.40	12/08/14	28	73,150	5,820	2
							Average (28 days)		**5,950**	
2	5			11/11/14			Hold			

Comments: Average compressive strength of 28 day cylinders complies with the specified strength.

Placement Location: Slab-on-grade at 2' south to 14' south x 1' west to 12' west from northeast corner of Building F, 0' north to 10' north x 2' east to 10' east and 22' north to 26' north x 15' east to 19' east from southwest corner of Building D, 0' south to 11' south x 0' east to 46' east from northwest corner of Building D, and 13' south to 35' south x 0' east to 20' east from northwest corner of Building B

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Report Number: 25141623.0018
Service Date: 11/10/14
Report Date: 12/08/14 Revision 1 - 28-day results
Task:

Terracon
10625 W I-70 Frontage Rd N Ste 3
Wheat Ridge, CO 80033
303-423-3300

Client

CTI and Associates, Inc.
Attn: Ronnie Weeks
51331 Pontiac Trail
Wixom, MI 48393

Project

Moline Street PCB Site Removal Action
3555 Moline St
Aurora, CO

Project Number: 25141623

Samples Made By: Terracon
Services: Cast Concrete Cylinders

Terracon Rep.: Travis O. Whalen
Reported To: Ronnie Weeks with CTI and Associates
Contractor:
Report Distribution:
(1) CTI and Associates, Inc., Emailed

Reviewed By: Jon D. Doudna, P.E.
Project Engineer

Test Methods: ASTM C 31, ASTM C39, ASTM C138, ASTM C143, ASTM C172, ASTM C231, ASTM C1064

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CR0001, 11-16-12, Rev.6

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Report Number: 25141623.0027
Service Date: 11/14/14
Report Date: 12/15/14 Revision 1 - 28-day results
Task: Concrete Testing

Terracon
10625 W I-70 Frontage Rd N Ste 3
Wheat Ridge, CO 80033
303-423-3300

Client

CTI and Associates, Inc.
Attn: Ronnie Weeks
51331 Pontiac Trail
Wixom, MI 48393

Project

Moline Street PCB Site Removal Action
3555 Moline St
Aurora, CO

Project Number: 25141623

Material Information

Specified Strength: 4,500 psi @ 28 days

Mix ID: 19618
Supplier: Ready Mixed
Batch Time: 0630 **Plant:** 12
Truck No.: 331 **Ticket No.:** 1111477

Field Test Data

Test	Result	Specification
Slump (in):	3 1/2	2 - 4
Air Content (%):	5.1	4 - 6
Concrete Temp. (F):	65	50 - 90
Ambient Temp. (F):	40	40 min
Plastic Unit Wt. (pcf):	143.6	
Yield (Cu. Yds.):		

Sample Information

Sample Date: 11/14/14 **Sample Time:** 0730
Sampled By: Judah Lenz
Weather Conditions: clear, cold
Accumulative Yards: 20 **Batch Size (cy):** 10
Placement Method: Pump
Water Added Before (gal): 5
Water Added After (gal):
Sample Location: Building D, NW Pad on SE corner 25 Ft. S of bay door
Placement Location: Building D, NW Pad

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Specimen Weight (lbs)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
1	1	4.00	12.57	11/15/14	8.20	11/21/14	7	62,660	4,990	1
1	2	4.00	12.57	11/15/14	8.20	12/12/14	28	83,660	6,660	2
1	3	4.00	12.57	11/15/14	8.20	12/12/14	28	80,150	6,380	1
1	4	4.00	12.57	11/15/14	8.20	12/12/14	28	82,350	6,550	2
							Average (28 days)		**6,530**	
1	5			11/15/14			Hold			

Comments: **Average compressive strength of 28 day cylinders complies with the specified strength.**
Outside temp. was 5 degrees. Temperature at point of placement was 40 degrees.

Samples Made By: Terracon
Services: Concrete Testing

Terracon Rep.: Judah Lenz
Reported To: Ronnie Weeks with CTI and Associates
Contractor:
Report Distribution:
(1) CTI and Associates, Inc., Emailed

Reviewed By: Jon Doudna
Jon D. Doudna, P.E.
Project Engineer

Test Methods: ASTM C 31, ASTM C39, ASTM C138, ASTM C143, ASTM C172, ASTM C231, ASTM C1064

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CR0001, 11-16-12, Rev.6

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Report Number: 25141623.0028
Service Date: 11/14/14
Report Date: 12/15/14 Revision 1 - 28-day results
Task: Concrete Testing

Terracon
10625 W I-70 Frontage Rd N Ste 3
Wheat Ridge, CO 80033
303-423-3300

Client

CTI and Associates, Inc.
Attn: Ronnie Weeks
51331 Pontiac Trail
Wixom, MI 48393

Project

Moline Street PCB Site Removal Action
3555 Moline St
Aurora, CO

Project Number: 25141623

Material Information

Specified Strength: 4,500 psi @ 28 days

Mix ID: 19618
Supplier: Ready Mixed
Batch Time: 0800 **Plant:** 12
Truck No.: 332 **Ticket No.:** 1111492

Sample Information

Sample Date: 11/14/14 **Sample Time:** 0900
Sampled By: Judah Lenz
Weather Conditions: clear, cold
Accumulative Yards: 40 **Batch Size (cy):** 10
Placement Method: Pump
Water Added Before (gal): 5
Water Added After (gal):
Sample Location: Building D, NW Pad on NE corner 10 Ft. S of bay door
Placement Location: Building D, NW Pad

Field Test Data

Test	Result	Specification
Slump (in):	3 1/4	2 - 4
Air Content (%):	5.0	4 - 6
Concrete Temp. (F):	65	50 - 90
Ambient Temp. (F):	40	40 min
Plastic Unit Wt. (pcf):	141.6	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Specimen Weight (lbs)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
1	1	4.00	12.57	11/15/14	8.20	11/21/14	7	59,640	4,750	3
1	2	4.00	12.57	11/15/14	8.20	12/12/14	28	76,780	6,110	3
1	3	4.00	12.57	11/15/14	8.20	12/12/14	28	80,400	6,400	1
1	4	4.00	12.57	11/15/14	8.20	12/12/14	28	81,630	6,500	1
							Average (28 days)		**6,340**	
1	5			11/15/14			Hold			

Comments: **Average compressive strength of 28 day cylinders complies with the specified strength.**
Outside temp. was 5 degrees. Point of placement was 40 degrees.

Samples Made By: Terracon
Services: Concrete Testing

Terracon Rep.: Judah Lenz
Reported To: Ronnie Weeks with CTI and Associates
Contractor:
Report Distribution:
(1) CTI and Associates, Inc., Emailed

Reviewed By: Jon Doudna
Jon D. Doudna, P.E.
Project Engineer

Test Methods:

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CR0001, 11-16-12, Rev.6

URS	URS Corporation 8181 E. Tufts Ave, Denver CO 80237	MOLINE CONFIRMATION SAMPLING Wipe Sample Documentation Form **Project Number** 41569671	Project Contact Sarah Lave Phone: 303.501.7481	Page of 1 of 3

Sample #	Sample ID	Sampler Initials	Date	Time	Building	Height (feet)	Description	QC?
1	WP-1-D-W-5	MF	9-3-14	1220	D	5'	North wall - E side near fire extinguisher	N
2	WP-2-D-W-2			1225	D	2'	North wall - West side under window	N
3	WP-3-D-W-4			1230	D	4'	West wall - South side - L of eye wash	N
4	WP-4-D-W-5			1235	D	5'	South wall - West side - east of window	Y-FD
5	~~WP-4-D-W-5 FD~~ WP-5-D-W-3			1240	D	3'	South wall - East side - Just E of window	N
6	WP-6-D-F-0			1245	D	0'	Floor - west side - near 500 ton press	N
7	WP-7-D-F-0			1250	D	0'	Floor - East side - near window	N
8	WP-8-D-F-0			1255	D	0'	Floor - NW quadrant near wall	N
9	WP-9-D-Fan-E			1300	D	16'	Fan - East wall - south fan	N
10	WP-10-D-C-16			1305	D	16'	Ceiling - Approx. center	N
11	WP-11-D-C-16			1310	D	16'	Ceiling - NW quadrant	N
12	WP-12-D-C-16			1315	D	16'	Ceiling - SE quadrant	N
13	WP-13-G-Duct 1			1320	G	~~16~~ 8'	Duct above main door	N
14	WP-14-G-Duct 2			1325	G	8'	Duct in west office	N
15	WP-15-B-C-16	MF	9-10-14	1140	B	16'	Ceiling - NW quadrant	N
16	WP-16-B-C-16			1145	B	16'	Ceiling - SE quadrant	N
17	WP-17-B-W-7			1150	B	7'	East Wall - North of door to Bldg 0	N
18	WP-18-B-W-10			1155	B	10'	West wall - approx center	N
19	WP-19-B-F-0			1200	B	0'	Floor - SW corner	Y MS/MSD
20	WP-20-B-F-0			1205	B	0'	Floor - NE corner	N
21	WP-21-F-C-16			1210	F	16'	Ceiling - SW quadrant	N
22	WP-22-F-W-5			1215	F	5'	East wall - Approx center	N
23	WP-23-F-F-0			1220	F	0'	Floor - NW quadrant - East of door	N
24	WP-24-G-W-5			1225	G	5'	West wall of east office	N
25	WP-25-G-W-2			1230	G	2'	East wall of West office	N

Additional General Notes:

URS	URS Corporation 8181 E. Tufts Ave, Denver CO 80237	MOLINE CONFIRMATION SAMPLING Wipe Sample Documentation Form **Project Number** 41569671	Project Contact Sarah Lave Phone: 303.501.7481	Page of 2 of 3

Sample #	Sample ID	Sampler Initials	Date	Time	Building	Height (feet)	Description	QC?
26	WP-26-G-F-0	MF	9-10-14	1235	G	0'	Floor - Entrance office	N
27	WP-27-D-F-0	↓	↓	1440	D	0'	Floor - SW quadrant - west of 500 ton press	N
~~28~~	~~WP-28-I-C-16~~	~~MF~~	~~9-15-14~~	~~1115~~	~~I~~	~~16'~~	~~Ceiling - Hoose offices~~	~~N~~ Sample not Moline Lab
29	WP-29-I-C-16			1120	I	16'	Ceiling - SE corner/quadrant	N
30	WP-30-I-C-16			1125	I	16'	Ceiling - SW corner/quadrant	N
31	WP-31-I-C-16			1130	I	16'	Ceiling - NW corner/quadrant	N
32	WP-32-I-C-16			1135	I	16'	Ceiling - Center	N
33	WP-33-I-W-3			1140	I	3'	Wall - East wall - btw fans	N
34	WP-34-I-W-7			1145	I	7'	Wall - South wall - center	FD
35	WP-34-I-W-7-FD			1145	I	7'	"	↓
36	WP-35-I-W-3			1150	I	3'	Wall - South wall - West section	MS/MSD
37	WP-36-I-W-2			1155	I	2'	Wall - North wall - Right of pedestrian door	N
38	WP-37-I-W-6			1200	I	6'	Wall - East wall - Outside offices	N
39	WP-38-I-F-0			1245	I	0'	Floor - NE quadrant	N
40	WP-39-I-F-0			1250	I	0'	Floor - SE quadrant	N
41	WP-40-I-F-0			1255	I	0'	Floor - Center of floor	N
42	WP-41-I-F-0			1300	I	0'	Floor - SW quadrant	N
43	WP-42-I-F-0	↓	↓	1305	I	0'	Floor - NW quadrant	N
44	WP-43-H-C-12	MF	9-15-14	1310	H	12'	Ceiling - NW quadrant	N
45	WP-44-H-C-12			1315	H	12'	Ceiling - SW quadrant	N
46	WP-45-H-W-2			1320	H	2'	Wall - North wall - center	N
47	WP-46-H-W-5			1325	H	5'	Wall - North wall - Right of pipe	N
48	WP-47-H-W-3			1330	H	3'	Wall - South wall - center	N
49	WP-48-H-F-0			1335	H	0'	Floor - North - center	N
50	WP-49-H-F-0	↓	↓	1340	H	0'	Floor - East - center	N

Additional General Notes:

WP-27-D-F-0 replaces sample WP-8-D-F-0 that was inadvertently collected in an area where concrete was to be removed.

URS	URS Corporation 8181 E. Tufts Ave, Denver CO 80237	MOLINE CONFIRMATION SAMPLING Wipe Sample Documentation Form **Project Number** 41569671	Project Contact Sarah Lave Phone: 303.501.7481	Page of 3 of 3

Sample #	Sample ID	Sampler Initials	Date	Time	Building	Height (feet)	Description	QC?
51	WP-50-H-F-0	MF	9-15-14	1345	H	0'	Floor - South - Center	
52	WP-50-H-F-0-FD			1345	H	0'	"	FD
53	WP-51-E-C-12			1350	E	12'	Ceiling - SW quadrant	N
54	WP-52-E-C-12			1355	E	12'	Ceiling - NW quadrant	N
55	WP-53-E-C-12			1400	E	12'	Ceiling - NE quadrant	N
56	WP-54-E-C-12			1405	E	12'	Ceiling - SE quadrant	N
57	WP-55-E-W-2	BC	9-16-14	1045	E	2'	Wall - North wall - Right of Bldg F door	MS/MSD
58	WP-56-E-W-5			1050	E	5'	Wall - North wall - Left of Bldg G door	N
59	WP-57-E-W-4			1055	E	4'	Wall - South wall - Right of window	N
60	WP-58-E-W-5			1100	E	5'	Wall - Southwall - Left of window	N
61	WP-59-E-W-3			1105	E	3'	Wall - Southwall - Close to Bldg D	N
62	WP-60-E-F-0			1110	E	0'	Floor - NW quadrant	FD
63	WP-60-E-F-0-FD			1110	E	0'	"	
64	WP-61-E-F-0			1115	E	0'	Floor - Center	N
65	WP-62-E-F-0			1120	E	0'	Floor - NE quadrant	N
66	WP-63-E-F-0			1125	E	0'	Floor - SE quadrant	N
67	WP-64-E-F-0			1130	E	0'	Floor - SW quadrant	MS/MSD
68	WP-65-I-Fan			1135	I		Fan - Exhaust fan north	N
69	WP-66-D-F-0	BC	10-2-14	1130	D	0'	Floor - (Resample of WP-6)	N
70	WP-67-E-F-0			1140	E	0'	Floor (Resample of WP-60)	N
71	WP-68-D-F-0	MF	10-15-14	1440	D	0'	Floor - Center of bldg	MS/MSD
72	WP-69-D-W-4			1445	D	4'	Wall - Southwall - East side	N
73	WP-70-D-W-5			1450	D	5'	Wall - Southwall - West side	N
74	WP-71-D-W-5			1455	D	5'	Wall - Westwall	N
75	WP-72-B-N-0	MF	10-24-14	1450	B	0'	Floor - North of Bldg B excavation - EPA requested	N
76	WP-73-H-SE-0			1500	H	0'	Floor - SE area of Bldg H	N

~~Additional General Notes:~~

URS Corporation
8181 East Tufts Avenue
Denver, Colorado 80237

URS

Project Number: 41569671

Project Contact: Sarah Lave, Phone: 303.501.7481

Moline Confirmation Sampling — Soil + Concrete

Sample #	Sample ID	Concrete (C) or Soil (S)	Sampler Initials	Date	Time	Composite or Grab	Depth	USCS Abbreviation	Moisture	Plasticity	Color	Staining	QC?	Location Description
1	EXC-1-F-F-1.5	S	MF	9-10-14	1240	G	1.5'	ML	Slightly moist	Moderate	Tan-brown to dk brown	None	N	Floor of excavation (Bldg F)
2	EXC-2-F-S-1	S	↓	↓	1245	↓	1'	↓	↓	↓	↓	↓	N	South sidewall -1' depth
3	EXC-3-F-W-1	S	↓	↓	1250	↓	1'	↓	↓	↓	↓	↓	N	West sidewall - 1' depth
4	EXC-4-F-N-1	S	↓	↓	1255	↓	1'	↓	↓	↓	↓	↓	N	North sidewall - 1' depth
5	EXC-5-F-E-1	S	↓	↓	1300	↓	1'	↓	↓	↓	↓	↓	N	East sidewall -1' depth
6	EXC-6-B-F-3	S	↓	↓	1305	↓	3'	ML	Slightly moist	low	lt. gray brown	None	FD	Floor of excavation (Bldg B)
7	EXC-6-B-F-3-FD	S	↓	↓	1305	↓	3'	↓	↓	↓	↓	↓	↓	Floor of excavation (Bldg B)
8	EXC-7-B-N-2.5	S	↓	↓	1310	↓	2.5'	↓	↓	↓	↓	↓	N	North sidewall -2.5' depth
9	EXC-8-B-W-2.5	S	↓	↓	1315	↓	2.5'	↓	↓	↓	↓	↓	N	West sidewall - 2.5' depth
10	EXC-9-B-S-2.5	S	↓	↓	1320	↓	2.5'	↓	↓	↓	↓	↓	N	South sidewall - 2.5' depth
11	EXC-10-B-E-2.5	S	↓	↓	1325	↓	2.5'	↓	↓	↓	↓	↓	N	East sidewall -2.5' depth
12	CON-1-D-N-0	C	BC	9-24-14	0930	G	0'	NA	NA	NA	NA	None	N	North side of 500-ton excavation
13	CON-2-D-E-0	C	↓	↓	0935	G	0'	↓	↓	↓	↓	↓	N	East side "
14	CON-3-D-W-0	C	↓	↓	0940	G	0'	↓	↓	↓	↓	↓	N	West side "
15	EXC-11-F-N-1	S	↓	↓	1200	G	1'	ML	Slightly moist	Moderate	Tan brown to dk brown	None	N	North sidewall (step-out)
16	EXC-12-D-N-1	S	↓	↓	1140	G	1'	SM	Slightly	Moderate	Tannish brown	None	N	North sidewall of 500-ton excavation
17	EXC-13-D-E-1	S	↓	↓	1135	G	1'	↓	↓	↓	↓	↓	N	East sidewall "
18	EXC-14-D-W-1	S	↓	↓	1145	G	1'	↓	↓	↓	↓	↓	N	West sidewall "
19	EXC-15-D-F-1	S	↓	↓	1125	G	1'	↓	↓	↓	↓	↓	MS1 MS10	Floor of excavation "
20	EXC-16-B-F-4	S	MF	10-2-14	1035	G	4'	ML	Slightly	Low	lt gray brown	None	FD	Floor (step-out/down)
21	EXC-16-B-F-4-FD	S	↓	↓	1035	G	4'	↓	↓	↓	↓	↓	↓	Floor (step-out/down)

Note: South side of excavation is South wall

Additional General Notes:

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Project Contact: Sarah Lave, Phone: 303.501.7481

Moline Confirmation Sampling — Soil ← Concrete

Sample #	Sample ID	Concrete (C) or Soil (S)	Sampler Initials	Date	Time	Composite or Grab	Depth	USCS Abbreviation	Moisture	Plasticity	Color	Staining	QC?	Location Description
1	EXC-17-D-F-2	S	MF	10-2-14	1050	G	2'	ML	Slightly	Low	Tannish brown	None	N	Floor - West side
2	EXC-18-D-F-2	↓	↓	↓	1055	G	2'	↓	↓	↓	↓	↓	↓	Floor - Center
3	EXC-19-D-F-2	↓	↓	↓	1100	G	2'	↓	↓	↓	↓	↓	↓	Floor - East side
4	EXC-20-D-E-1.5	↓	↓	↓	1105	G	1.5'	↓	↓	↓	↓	↓	↓	East sidewall
5	EXC-21-D-W-1.5	↓	↓	↓	1110	G	1.5'	↓	↓	↓	↓	↓	↓	West sidewall
6	EXC-22-D-S1-1.5	↓	↓	↓	1115	G	1.5'	↓	↓	↓	↓	↓	↓	South sidewall - West sample
7	EXC-23-D-S2-1.5	↓	↓	↓	1120	G	1.5'	↓	↓	↓	↓	↓	↓	South sidewall - Center sample
8	EXC-24-D-S3-1.5	↓	↓	↓	1125	G	1.5'	↓	↓	↓	↓	↓	↓	South sidewall - East sample
9	CON-4-D-NW-0	C	BC	10-2-14	0930	G	0	NA	NA	NA	NA	None	MS/MSD	South side of excavation edge at concrete exit
10	~~EXC~~ CON-5-C-W-0	C	MF	10-15-14	1105	G	0	NA	NA	NA	NA	None	FD	North-west former Bldg C
11	CON-~~6~~5-C-W-0-FD	C	↓	↓	1105	↓	↓	↓	↓	↓	↓	↓	N	North-west former Bldg C
12	CON-6-C-E-0	C	↓	↓	1110	↓	↓	↓	↓	↓	↓	↓	N	North-east former Bldg C
13	CON-7-C-S-0	C	↓	↓	1115	↓	↓	↓	↓	↓	↓	↓	N	South-east former Bldg C
14	EXC-25-C-[redacted]-4 (F)	S	↓	↓	1120	↓	4	MH	Mod to High →	Slightly	DK brown	None	N	Floor - NW former Bldg C
15	EXC-26-C-[redacted]-3 (N)	↓	↓	↓	1125	↓	3	↓	↓	↓	↓	↓	N	North sidewall - former Bldg C
16	EXC-27-C-[redacted]-2 (E1)	↓	↓	↓	1130	↓	2	CH	Slightly	Mod.	DK brown/gray	Slight some odor petroleum	N	West sidewall - former Bldg C - 2'
17	EXC-28-C-[redacted]-3 (E2)	↓	↓	↓	1135	↓	3	↓	↓	↓	↓	↓	N	West sidewall - former Bldg C - 3'
18	EXC-29-C-[redacted]-3 (E3)	↓	↓	↓	1140	↓	3	↓	↓	↓	↓	Some odor	N	West sidewall - former Bldg C - 3'
19	EXC-30-C-[redacted]-3 (S1)	↓	↓	↓	1145	↓	3	MH	Slightly	Mod.	DK. brown	None	N	South sidewall - former Bldg C - 3'
20	EXC-31-C-[redacted]-2 (S2)	↓	↓	↓	1150	↓	2	↓	↓	↓	↓	↓	N	South sidewall - former Bldg C - 2'
21	EXC-32-C-W-2	↓	↓	↓	1155	↓	2	↓	↓	↓	↓	↓	N	W sidewall - former Bldg C - 2'

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Moline Confirmation Sampling — Soil + Concrete

Sample #	Sample ID	Concrete (C) or Soil (S)	Sampler Initials	Date	Time	Composite or Grab	Depth	USCS Abbreviation	Moisture	Plasticity	Color	Staining	QC?	Location Description
1	EXC-33-C-W1-1	S	MF	10-15-14	1200	G	1'	MH	Slightly moist	Mod	Dk. brown	None	N	West Sidewall - 1'
2	EXC-34-C-W3-3	↓	↓	↓	1205	↓	3'	↓	↓	↓	↓	↓	N	West Sidewall - 3'
3	EXC-35-C-F-5	↓	↓	↓	1210	↓	5'	MH	Slightly	Mod to high	Med brown	None	~~N~~ Y	Floor - Former Bldg C - 5' - East
4	EXC-35-C-F-5-FD	↓	↓	↓	1210	↓	5'	↓	↓	↓	↓	↓	FD	Floor - Form Bldg C - 5' - East
5	EXC-36-C-N1-4	↓	↓	↓	1215	↓	4'	↓	↓	↓	↓	↓	N	N sidewall - Former Bldg C - 4'
6	EXC-37-C-N2-3	↓	↓	↓	1220	↓	3'	↓	↓	↓	↓	↓	N	N sidewall - Form Bldg C - 3'
7	EXC-38-C-E1-4	↓	↓	↓	1225	↓	4'	↓	↓	↓	↓	↓	N	E sidewall - Form Bldg C - 4'
8	EXC-39-C-E2-3	↓	↓	↓	1230	↓	3'	↓	↓	↓	↓	↓	N	E sidewall - Former Bldg C - 3'
9	EXC-40-C-E3-3	↓	↓	↓	1235	↓	3'	↓	↓	↓	↓	↓	N	E sidewall - Form Bldg C - 3'
10	EXC-41-C-E4-2	↓	↓	↓	1240	↓	2'	↓	↓	↓	↓	↓	N	E sidewall - Former Bldg C - 2'
11	EXC-42-C-E5-2	↓	↓	↓	1245	↓	2'	↓	↓	↓	↓	↓	N	E sidewall - Former Bldg C - 2'
12	EXC-43-C-S-4	↓	↓	↓	1250	↓	5'	↓	↓	↓	↓	↓	N	S Sidewall - Form Bldg C - 5'
13	EXC-44-C-W-4	↓	↓	↓	1255	↓	5'	↓	↓	↓	↓	↓	N	W Sidewall - Former Bldg C - 5'
14	EXC-45-D-F1-6.5	↓	↓	↓	1300	↓	6.5	ML	Slightly moist	Low	Med to Dk brown	None	NS/MSD	Floor - Bldg D - NW base of exc.
15	EXC-46-D-F2-6.5	↓	↓	↓	1305	↓	6.5'	↓	↓	↓	↓	↓	NS/MSD	Floor - Bldg D - SW base of exc
16	EXC-47-D-F3-6.5	↓	↓	↓	1310	↓	6.5'	↓	↓	↓	↓	↓	N	Floor - Bldg D - NE base of exc
17	EXC-48-D-F4-6.5	↓	↓	↓	1315	↓	6.5'	↓	↓	↓	↓	↓	N	Floor - Bldg D - SE base of exc.
18	EXC-49-D-N1-4'	↓	↓	↓	1320	↓	4'	↓	↓	↓	↓	↓	N	N sidewall - 4' - West
19	EXC-50-D-N2-6'	↓	↓	↓	1325	↓	6'	↓	↓	↓	↓	↓	N	N sidewall - 6' - West
20	EXC-51-D-N3-4	↓	↓	↓	1330	↓	4'	↓	↓	↓	↓	↓	N	N sidewall - 4' - East
21	EXC-52-D-N4-6	↓	↓	↓	1335	↓	6'	↓	↓	↓	↓	↓	N	N sidewall - 6' - East

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Moline Confirmation Sampling — Soil + Concrete

Sample #	Sample ID	Concrete (C) or Soil (S)	Sampler Initials	Date	Time	Composite or Grab	Depth	USCS Abbreviation	Moisture	Plasticity	Color	Staining	QC?	Location Description
1	EXC-53-D-E1-6	S	MF	10-15-14	1340	G	6'	ML	Slightly moist	Low	Med to dk brn	None	N	E sidewall - Bldg D -6'
2	EXC-54-D-E2-3	↓	↓	↓	1345	↓	3'	↓	↓	↓	↓	↓	N	E sidewall - Bldg D -3'
3	EXC-55-D-E3-6	↓	↓	↓	1350	↓	6'	↓	↓	↓	↓	↓	N	E sidewall - Bldg D - 6'
4	EXC-56-D-E4-3	↓	↓	↓	1355	↓	3'	↓	↓	↓	↓	↓	N	E sidewall - Bldg D -3'
5	EXC-57-D-S1-6	↓	↓	↓	1400	↓	6'	↓	↓	↓	↓	↓	N	S sidewall - Bldg D -6'
6	EXC-58-D-S2-3	↓	↓	↓	1405	↓	3'	↓	↓	↓	↓	↓	N	S sidewall - Bldg D -3'
7	EXC-59-D-S3-6	↓	↓	↓	1410	↓	6'	↓	↓	↓	↓	↓	N	S sidewall - Bldg D -6'
8	EXC-60-D-S4-3	↓	↓	↓	1415	↓	3'	↓	↓	↓	↓	↓	N	S sidewall - Bldg D -3'
9	EXC-61-D-W1-6	↓	↓	↓	1420	↓	6'	↓	↓	↓	↓	↓	N	W sidewall - Bldg D - 6'
10	EXC-62-D-W2-3	↓	↓	↓	1425	↓	3'	↓	↓	↓	↓	↓	N	W sidewall - Bldg D - 3'
11	EXC-63-D-W3-6	↓	↓	↓	1430	↓	6'	↓	↓	↓	↓	↓	N	W sidewall - Bldg D - 6'
12	EXC-64-D-W4-3	↓	↓	↓	1435	↓	3'	↓	↓	↓	↓	↓	N	W sidewall - Bldg D -3'
13	EXC-65-F-W-1	↓	↓	↓	1440	↓	1	ML	Slightly moist	Mod.	Tan to dk brn	None	FD/MS/MSD	W sidewall - Bldg F-1 - Stepout
14	EXC-65-F-W-1-FD	↓	↓	↓	1440	↓	1	↓	↓	↓	↓	↓	↓	W "
15	EXC-66-C-E1-3	S	MF	10/24/14	1315	↓	3	ML	Slightly moist	Mod.	Dk brn	None	N	W floor Bldg C
16	EXC-67-C-E2-3	↓	↓	↓	1320	↓	3	↓	↓	↓	↓	↓	N	W floor " C
17	EXC-68-C-E3-3	↓	↓	↓	1325	↓	3	↓	↓	↓	↓	↓	N	W floor " C
18	EXC-69-D-W-4	↓	↓	↓	1335	↓	4	ML	Sl. moist	Low	Med to dk brn	None	↓	W floor Bldg D
19	EXC-70-D-N-6	↓	↓	↓	1340	↓	6	↓	↓	↓	↓	↓	↓	N Sidewall " "
20	EXC-71-F-W-1	↓	↓	↓	1415	↓	1	ML	Sl. moist	Mod	Tan to dk brn	None	N	W Sidewall Bldg F
21	EXC-72-D-F-5	S	BC	10-27-14	1420	G	5	ML	Sl. moist	Low	Med to dk brn	None	N	Floor - New floor - NW of stepout EXC 1

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Moline Confirmation Sampling Soil + Concrete

Sample #	Sample ID	Concrete (C) or Soil (S)	Sampler Initials	Date	Time	Composite or Grab	Depth	USCS Abbreviation	Moisture	Plasticity	Color	Staining	QC?	Location Description
1	EXC-73-D-N-4.5	S	BC	10-27-14	1425	G	4.5	ML	Sl. moist	Low	Med to dk brn	None	N	N sidewall of step-out excavation EXC 7
2	EXC-74-D-W-3	↓	↓	↓	1430	↓	3	↓	↓	↓	↓	↓	N	W sidewall of step-out excavation EXC 7
3														
4														
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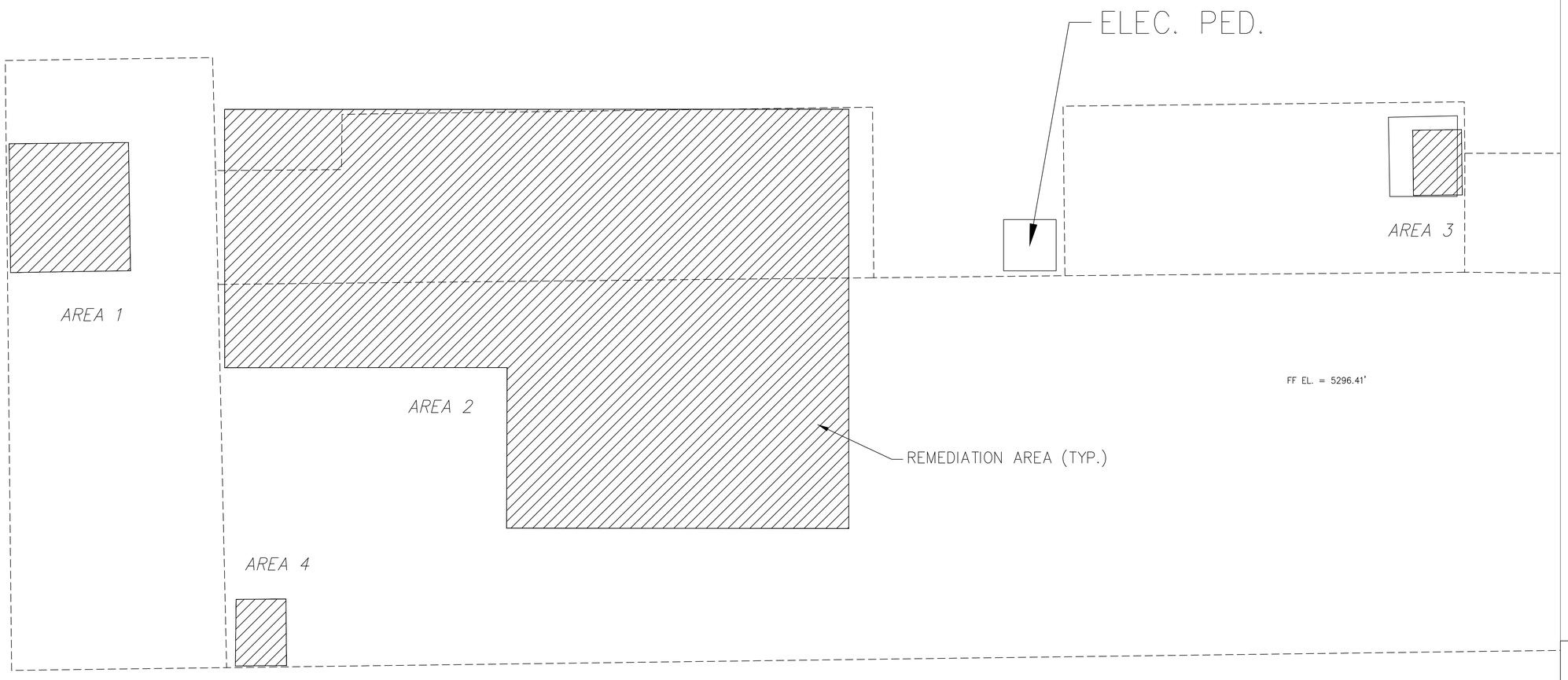
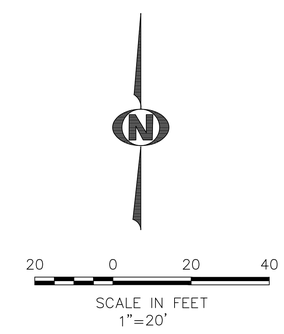
SL 10-27-14

Additional General Notes:





PRECONSTRUCTION SURVEY

EXISTING CONDITIONS

Moline Street PCB Site Removal Action

DATE OF SURVEY: 08-18-14

KRW CONSULTING, INC.
8000 W. 14th AVENUE, SUITE 200
LAKEWOOD, COLORADO 80214

Moline Street PCB Site Investigation and Removal Action
Data Review Summary

Sample Delivery Group: URS097
Sampling Date: September 3, 2014
Data Reviewer: Katie Abbott Date Completed: December 11, 2014
Peer Reviewer: Sheri Fling Date Completed: December 31, 2014

The table below summarizes the data package and sample identifications discussed in this data review.

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
WP-1-D-W-5	SA	URS097_WP-1-D-W-5	Wipe	X
WP-2-D-W-2	SA	URS097_WP-2-D-W-2	Wipe	X
WP-3-D-W-4	SA	URS097_WP-3-D-W-4	Wipe	X
WP-4-D-W-5	SA	URS097_WP-4-D-W-5	Wipe	X
WP-4-D-W-D-FD	FD	URS097_WP-4-D-W-D-FD	Wipe	X
WP-5-D-W-3	SA	URS097_WP-5-D-W-3	Wipe	X
WP-6-D-F-0	SA	URS097_WP-6-D-F-0	Wipe	X
WP-7-D-F-0	SA	URS097_WP-7-D-F-0	Wipe	X
WP-8-D-F-0	SA	URS097_WP-8-D-F-0	Wipe	X
WP-9-D-Fan-E	SA	URS097_WP-9-D-Fan-E	Wipe	X
WP-10-D-C-16	SA	URS097_WP-10-D-C-16	Wipe	X
WP-11-D-C-16	SA	URS097_WP-11-D-C-16	Wipe	X
WP-12-D-C-16	SA	URS097_WP-12-D-C-16	Wipe	X
WP-13-G-Duct1	SA	URS097_WP-13-G-Duct1	Wipe	X
WP-14-G-Duct2	SA	URS097_WP-14-G-Duct2	Wipe	X

Sample Type: FD - Field Duplicate SA – Sample
Analyses: PCBs – Polychlorinated Biphenyls

This report contains the final results of the data review conducted for soil samples collected in September 2014 for Moline Street PCB Site Investigation and Removal Action. The sample results were presented in one data package. The data review was conducted in accordance with the Quality Assurance Project Plan, Moline Street PCB Site Investigation and Removal Action (URS, February 2014) and evaluation of laboratory criteria, as applicable.

Full validation (recalculation and checking for transcription errors) for Method 8082A was conducted on data package URS098-Soil. In addition, summary forms for all laboratory parameters (initial calibration, continuing calibration, laboratory control samples) were reviewed for all data packages. The laboratory only reported 2nd column confirmation results for data packages

URS098-Soil, URS-098-Wipe, and URS101. Per Method 8082A, 2nd column confirmation is only required when the sample composition is not well characterized.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification (noted below).
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL), have been qualified as estimated (J SQL-I). All other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by ChemSolutions in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6°C temperature range. The laboratory noted that custody seals were not present on the sample coolers. As the samples were hand-delivered to the laboratory shortly after sample collection, data qualification was not considered necessary.
Holding Times	Yes	All samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank	Yes	Target analytes were not detected within the method blank or the blank wipe.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate None	NA	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** An MS/MSD was not performed on a sample from this data package. The frequency of MS/MSDs met the quality assurance project plan (QAPP) requirement of one per twenty samples. When MS/MSD issues accounted for less than 35% of the MS/MSD analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS/MSD results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required due to MS/MSD recoveries and RPDs.
Laboratory Performance • Laboratory Control Sample	Yes	The laboratory control sample (LCS) recoveries met quality control criteria. Per Method 8082A, aroclors 1016 and 1260 are spiked for the LCS, indicating acceptable accuracy with respect to the analytical method.
Method Quality Control • Surrogates	No	With the exceptions listed in Table 1, all of the surrogate recoveries were within the laboratory specified acceptance criteria for the site samples.
Field Quality Control • Field Duplicate WP-4-D-W-5/WP-4-D-W-D-FD	Yes	**Field Duplicate** The frequency of field duplicates met the QAPP requirement of one per twenty samples. The comparison between results of the field duplicate pair met the criteria listed below. Data qualification was not required. • When both the sample and duplicate values are >5x the reporting limit (RL) acceptable sampling and analytical precision is indicated by a relative percent difference (RPD) between the results of ≤50%.

Review Parameter	Criteria Met?	Comment
		• Where the result for one or both analytes of the field duplicate pair is <5xRL, satisfactory precision is indicated if the absolute difference between the field duplicate results is <3.5xRL. When field duplicates issues accounted for less than 35% of the field duplicate analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the field duplicate results did not meet criteria, evaluation was extended to all associated samples.
Reporting limits met?	No	Due to dilutions, samples WP-6-D-F-0, WP-9-D-Fan-E, and WP-13-G-Duct1 were reported as non-detect at elevated reporting limits and will need to be evaluated by the end user of the data with respect to project objectives.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.

> - Greater Than
< - Less Than
≤ - Less Than or Equal to
°C – Degrees Celsius
COC – Chain of Custody
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
QAPP – Quality Assurance Project Plan
RL – Reporting Limit
RPDs – Relative Percent Differences

Table 1:
Surrogate Recovery Outliers and Resultant Data Qualification

Associated Sample	Surrogate	%R (Limits)	Qualification
WP-13-G-Duct1	Decachlorobiphenyl	44 (50-140)	All PCB results for sample WP-13-G-Duct1 were qualified as estimated (UJ/J SUR-L) to reflect the potential low bias.

%R – percent recovery
SUR – Surrogate Recovery
UJ/J - Estimated
L – Low
PCBs – Polychlorinated Biphenyls

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-1-D-W-5
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-1-D-W-5
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	0.12	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-I
Aroclor 1254	0.19	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-I
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	100	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-2-D-W-2
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-2-D-W-2
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	0.065	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-I
Aroclor 1254	0.12	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-I
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	98.4	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-3-D-W-4
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-3-D-W-4
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	0.057	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-I
Aroclor 1254	0.070	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-I
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	90.8	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-4-D-W-5
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-4-D-W-5
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	0.092	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-J
Aroclor 1254	0.12	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-J
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	93.6	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-4-D-W-5-FD
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-4-D-W-5-FD
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	0.11	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-I
Aroclor 1254	0.15	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-I
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	89.6	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-5-D-W-3
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-5-D-W-3
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	0.026	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-J
Aroclor 1254	0.11	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SQL-J
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	89.6	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-6-D-F-0
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-6-D-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1221	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1232	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1242	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1248	4.0	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1254	3.2	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1260	ND	1.0	0.085	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1262	ND	1.0	0.085	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1268	ND	1.0	0.085	ug/wipe	5	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	98.0	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-7-D-F-0
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-7-D-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	0.62	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1254	1.7	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	75.6	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-8-D-F-0
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-8-D-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/15/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/15/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/15/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/15/2014	
Aroclor 1248	22	20	2.0	ug/wipe	100	9/5/2014	10/14/2014	
Aroclor 1254	22	20	2.0	ug/wipe	100	9/5/2014	10/14/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/15/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/15/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/15/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	71.6	10/14/2014 (1x)	Surrogate QC Limits 50-140%
Decachlorobiphenyl	120	10/14/2014 (100x)	

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ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-9-D-Fan-E
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-9-D-Fan-E
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1221	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1232	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1242	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1248	3.1	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1254	3.5	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1260	ND	1.0	0.085	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1262	ND	1.0	0.085	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1268	ND	1.0	0.085	ug/wipe	5	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	86.0	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-10-D-C-16
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-10-D-C-16
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	92.8	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-11-D-C-16
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-11-D-C-16
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	0.34	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1254	0.60	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	80.8	10/14/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-12-D-C-16
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-12-D-C-16
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	81.6	10/14/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-13-G-Duct1
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-13-G-Duct1
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	UJ SUR-L
Aroclor 1221	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1232	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1242	ND	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1248	1.2	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	J SUR-L
Aroclor 1254	2.1	1.0	0.10	ug/wipe	5	9/5/2014	10/14/2014	J SUR-L
Aroclor 1260	ND	1.0	0.085	ug/wipe	5	9/5/2014	10/14/2014	UJ SUR-L
Aroclor 1262	ND	1.0	0.085	ug/wipe	5	9/5/2014	10/14/2014	
Aroclor 1268	ND	1.0	0.085	ug/wipe	5	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery			
Decachlorobiphenyl	44.0	10/14/2014	Surrogate QC Limits 50-140%	N

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ChemSolutions LLC
Sample Results
Project ID: URS097

Client Sample ID: WP-14-G-Duct2
Client Project ID: Moline St. PCB Site
Lab ID: URS097_WP-14-G-Duct2
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/3/14
Date Received: 9/3/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1248	0.12	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	J J SOL-I
Aroclor 1254	0.28	0.20	0.020	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/5/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	91.2	10/14/2014	Surrogate QC Limits 50-140%

KA 12/2/14

Moline Street PCB Site Investigation and Removal Action
Data Review Summary

Sample Delivery Group: URS098-Soil
Sampling Date: September 10, 2014
Data Reviewer: Katie Abbott Date Completed: December 11, 2014
Peer Reviewer: Sheri Fling Date Completed: December 31, 2014

The table below summarizes the data package and sample identifications discussed in this data review.

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
EXC-1-F-F-1.5	SA	URS098_EXC-1-F-F-1.5	Soil	X
EXC-2-F-S-1	SA	URS098_EXC-2-F-S-1	Soil	X
EXC-3-F-W-1	SA	URS098_EXC-3-F-W-1	Soil	X
EXC-4-F-N-1	SA	URS098_EXC-4-F-N-1	Soil	X
EXC-5-F-E-1	SA	URS098_EXC-5-F-E-1	Soil	X
EXC-6-B-F-3	SA	URS098_EXC-6-B-F-3	Soil	X
EXC-6-B-F-3-FD	FD	URS098_EXC-6-B-F-3-FD	Soil	X
EXC-7-B-N-2.5	SA	URS098_EXC-7-B-N-2.5	Soil	X^m
EXC-8-B-W-2.5	SA	URS098_EXC-8-B-W-2.5	Soil	X
EXC-9-B-S-2.5	SA	URS098_EXC-9-B-S-2.5	Soil	X
EXC-10-B-E-2.5	SA	URS098_EXC-10-B-E-2.5	Soil	X

Sample Type: FD - Field Duplicate SA – Sample X^m - Matrix Spike/Matrix Spike Duplicate
Analyses: PCBs – Polychlorinated Biphenyls

This report contains the final results of the data review conducted for soil samples collected in September 2014 for Moline Street PCB Site Investigation and Removal Action. The sample results were presented in one data package. The data review was conducted in accordance with the Quality Assurance Project Plan, Moline Street PCB Site Investigation and Removal Action (URS, February 2014) and evaluation of laboratory criteria, as applicable.

Full validation (recalculation and checking for transcription errors) for Method 8082A was conducted on data package URS098-Soil. In addition, summary forms for all laboratory parameters (initial calibration, continuing calibration, laboratory control samples) were reviewed for all data packages. The laboratory only reported 2nd column confirmation results for data packages URS098-Soil, URS-098-Wipe, and URS101. Per Method 8082A, 2nd column confirmation is only required when the sample composition is not well characterized.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification (noted below).
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL), have been qualified as estimated (J SQL-I). All other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by ChemSolutions in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6°C temperature range. The laboratory noted that custody seals were not present on the sample coolers. As the samples were hand-delivered to the laboratory shortly after sample collection, data qualification was not considered necessary.
Holding Times	Yes	All samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank	Yes	Target analytes were not detected within the method blank or the blank wipe.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate EXC-7-B-N-2.5	Yes	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** The MS/MSD recoveries and relative percent differences (RPDs) met quality control criteria. Per Method 8082A, MS/MSD samples are only spiked with aroclors 1016 and 1260. The frequency of MS/MSDs met the quality assurance project plan (QAPP) requirement of one per twenty samples. When MS/MSD issues accounted for less than 35% of the MS/MSD analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS/MSD results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required due to MS/MSD recoveries and RPDs.
Laboratory Performance • Laboratory Control Sample	Yes	The laboratory control sample (LCS) recoveries met quality control criteria. Per Method 8082A, aroclors 1016 and 1260 are spiked for the LCS, indicating acceptable accuracy with respect to the analytical method.
Method Quality Control • Surrogates	No	With the exceptions listed in Table 1, all of the surrogate recoveries were within the laboratory specified acceptance criteria for the site samples. In some instances, the surrogate recoveries could not be calculated due to the samples being diluted (≥20X) beyond the laboratory's ability to quantitate recoveries.
Field Quality Control • Field Duplicate EXC-6-B-F-3/EXC-6-B-F-3-FD	No	**Field Duplicate** The frequency of field duplicates met the QAPP requirement of one per twenty samples. The comparison between results of the field duplicate pair met the criteria listed below. Data qualification was not required.

Review Parameter	Criteria Met?	Comment
		• When both the sample and duplicate values are >5x the reporting limit (RL) acceptable sampling and analytical precision is indicated by a relative percent difference (RPD) between the results of ≤50%. • Where the result for one or both analytes of the field duplicate pair is <5xRL, satisfactory precision is indicated if the absolute difference between the field duplicate results is <3.5xRL. When field duplicates issues accounted for less than 35% of the field duplicate analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the field duplicate results did not meet criteria, evaluation was extended to all associated samples. As >35% of the soil field duplicate results were outside the applicable evaluation criterion, the aroclor 1254 results for all soil field duplicate results, with the exception of samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD, were qualified as estimated (J FD-I). As the RPD between the field duplicate results for samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD were within control limits, data qualification was not considered necessary.
Reporting limits met?	Yes	No results were reported as non-detect at elevated reporting limits.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.
Laboratory Performance Review: URS098-Soil		
Initial Calibration		The percent relative standard deviation (%RSD) values for all target analytes in the calibration were less than 20%. Therefore, the initial calibration met method acceptance criteria.
Initial Calibration Verification/Continuing Calibration Verification		The percent differences (%Ds) for all target compounds in the initial calibration verification (ICVs) and continuing calibrations (CCALs) were less than 20%. Data qualification was not necessary.
2nd Column	No	Per Method 8082A, the samples require a 2nd column confirmation when the sample composition is not well characterized for positive detections. A 2nd column confirmation was performed on data packages URS098-Soil for soils, URS-098-Wipe for wipes, and URS101 for concrete. The RPD between the primary column and confirmation column results were within the method criteria of ≤40% for the concrete samples (URS101). The RPD between the primary and confirmation column results exceeded the ≤40% criteria for several soil samples. Sample WP-25-G-W-2 had an RPD outside the method criteria for aroclor 1248; therefore, the associated result was qualified as estimated (J ID-I). In reviewing the chromatograms for the soil samples, there is evidence of a coeluting interferent with peak 1 for aroclor 1254 on the second column. The interfering peak caused the confirmation results to be high than the reported results. The RPD between the primary and confirmation columns were within the method criteria of ≤40% when the interfering peak was subtracted. Results are summarized in Table 2.
Transcription Errors	Yes	Transcription errors were not found in this data package. Data qualification was not necessary.

Review Parameter	Criteria Met?	Comment
Recalculation	Yes	Calculation or sample quantitation errors were not found in this data package. Data qualification was not necessary.

> - Greater Than
< - Less Than
≤ - Less Than or Equal to
% - Percent
%D – Percent Difference
%RSD – Percent Relative Standard Deviation
°C – Degrees Celsius
CCAL – Continuing Calibration
COC – Chain of Custody
FD – Field Duplicate
I – Indeterminate Bias
ICV – Initial Calibration Verification
ID - Identification
J - Estimated
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
QAPP – Quality Assurance Project Plan
RL – Reporting Limit
RPDs – Relative Percent Differences

Table 1:
Surrogate Recovery Outliers and Resultant Data Qualification

Associated Sample	Surrogate	%R (Limits)	Qualification
EXC-2-F-S-1 (5x)	Decachlorobiphenyl	162 (61-150)	The associated detected aroclor 1248 and aroclor 1254 PCB results were qualified as estimated (J SUR-L) to reflect the potential high bias.
EXC-3-F-W-1 (10x)		192 (61-150)	

%R – Percent Recovery
J – Estimated
PCB – Polychlorinated Biphenyl
H – High Bias
SUR – Surrogate Recovery

Table 2:
Surrogate Recovery Outliers and Resultant Data Qualification

Sample ID	Aroclor	Reported Result (mg/Kg)	Prior to Subtraction of Interfering Peak		Retention Time of Subtracted Peak	After Subtraction of Interfering Peak	
			Confirmation Result (mg/Kg)	RPD (%)		Confirmation Result (mg/Kg)	RPD (%)
EXC-5-F-E-1	1248	0.41	0.83	67.7%	5.18	0.51	21.7
EXC-5-F-E-1	1254	0.63	0.95	40.5%	7.22	0.81	25.0
EXC-6-F-3-FD		89	140	44.5%	7.22	120	29.7
EXC-7-B-N-2.5		0.40	0.69	53.2%	7.22	0.58	36.7
EXC-8-B-W-2.5		0.14	0.24	52.6%	7.22	0.21	40.0

% - Percent
RPD – Relative Percent Difference
mg/L – Milligrams per Kilogram

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-1-F-F-1.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-1-F-F-1.5
Sample Matrix: Soil
Dry Weight Basis, % Solid=84.4
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1248	0.18	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1254	0.19	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	J FO-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	143	10/3/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-2-F-S-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-2-F-S-1
Sample Matrix: Soil
Dry Weight Basis, % Solid=86.2
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1248	4.4	0.50	0.070	mg/Kg	5	9/12/2014	10/4/2014	J SUR-H
Aroclor 1254	2.3	0.12	0.014	mg/Kg	5	9/12/2014	10/4/2014	J SUR, HFD-H
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery			
Decachlorobiphenyl	115	10/4/2014	Surrogate QC Limits 61-150	
Decachlorobiphenyl	162	10/4/2014		N

KA 12/11/14
KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-3-F-W-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-3-F-W-1
Sample Matrix: Soil
Dry Weight Basis, % Solid=84.0
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1248	8.0	1.2	0.14	mg/Kg	10	9/12/2014	10/4/2014	J MS, ~~X~~SUB-H
Aroclor 1254	14	2.4	0.24	mg/Kg	20	9/12/2014	10/9/2014	J FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery			
Decachlorobiphenyl	137	10/3/2014	Surrogate QC Limits 61-150	
Decachlorobiphenyl	192	10/4/2014		N
Decachlorobiphenyl	Diluted Out	10/9/2014		

KA 12/18/14
KA 12/11/14
KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-4-F-N-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-4-F-N-1
Sample Matrix: Soil
Dry Weight Basis, % Solid=98.0
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1248	97	10	1.2	mg/Kg	100	9/12/2014	10/4/2014	
Aroclor 1254	140	20	2.4	mg/Kg	200	9/12/2014	10/9/2014	J FO-I
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	9/12/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	125	10/3/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/4/2014	
Decachlorobiphenyl	Diluted Out	10/9/2014	

KA 12/11/14
KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-5-F-E-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-5-F-E-1
Sample Matrix: Soil
Dry Weight Basis, % Solid=81.9
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.015	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1221	ND	0.10	0.015	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1232	ND	0.10	0.015	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1242	ND	0.10	0.015	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1248	0.41	0.10	0.015	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1254	0.63	0.10	0.015	mg/Kg	1	9/12/2014	10/3/2014	J FO ~~FO~~-I
Aroclor 1260	ND	0.10	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1262	ND	0.10	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1268	ND	0.10	0.013	mg/Kg	1	9/12/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	108	10/3/2014	Surrogate QC Limits 61-150

KA 12/23/14
KA 12/18/14
KA 12/11/14
KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-6-B-F-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-6-B-F-3
Sample Matrix: Soil
Dry Weight Basis, % Solid=84.2
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1248	160	24	2.8	mg/Kg	200	9/12/2014	10/9/2014	
Aroclor 1254	58	12	1.4	mg/Kg	100	9/12/2014	10/4/2014	~~J ID I~~ KA 12/18/14
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	92.4	10/3/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/4/2014	
Decachlorobiphenyl	Diluted Out	10/9/2014	

KA 12/18/14

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-6-B-F-3-FD
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-6-B-F-3-FD
Dry Weight Basis, % Solid=79.7
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.13	0.015	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1221	ND	0.13	0.015	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1232	ND	0.13	0.015	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1242	ND	0.13	0.015	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1248	250	26	3.0	mg/Kg	200	9/12/2014	10/9/2014	
Aroclor 1254	89	13	1.5	mg/Kg	100	9/12/2014	10/4/2014	~~J ID J~~
Aroclor 1260	ND	0.13	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1262	ND	0.13	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1268	ND	0.13	0.014	mg/Kg	1	9/12/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery	
Decachlorobiphenyl	84.8	10/3/2014
Decachlorobiphenyl	Diluted Out	10/4/2014
Decachlorobiphenyl	Diluted Out	10/9/2014

Surrogate QC Limits 61-150

KA 12/23/14
KA 12/18/14
KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-7-B-N-2.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-7-B-N-2.5
Dry Weight Basis, % Solid=88.7
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1248	0.91	0.11	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1254	0.40	0.11	0.014	mg/Kg	1	9/12/2014	10/3/2014	J FO ~~I-O~~-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	9/12/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	113	10/3/2014	Surrogate QC Limits 61-150

KA 12/23/14
KA 12/18/14
KA 12/11/14
KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-8-B-W-2.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-8-B-W-2.5
Dry Weight Basis, % Solid=90.8
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1248	0.37	0.11	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1254	0.14	0.11	0.013	mg/Kg	1	9/12/2014	10/3/2014	J FO, I ~~D~~-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	9/12/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	112	10/3/2014	Surrogate QC Limits 61-150

KA 12/23/14
KA 12/18/14
KA 12/11/14
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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-9-B-S-2.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-9-B-S-2.5
Dry Weight Basis, % Solid=85.8
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1248	38	6.0	0.70	mg/Kg	50	9/12/2014	10/9/2014	
Aroclor 1254	14	3.0	0.35	mg/Kg	25	9/12/2014	10/4/2014	J FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	9/12/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	110	10/3/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/4/2014	
Decachlorobiphenyl	Diluted Out	10/9/2014	

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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: EXC-10-B-E-2.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_EXC-10-B-E-2.5
Dry Weight Basis, % Solid=88.5
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1248	3.3	0.55	0.070	mg/Kg	5	9/12/2014	10/4/2014	
Aroclor 1254	1.5	0.11	0.014	mg/Kg	1	9/12/2014	10/4/2014	J FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	9/12/2014	10/4/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	9/12/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	120	10/4/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/4/2014	

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Moline Street PCB Site Investigation and Removal Action
Data Review Summary

Sample Delivery Group: URS098-Wipe
Sampling Date: September 10, 2014
Data Reviewer: Katie Abbott Date Completed: December 11, 2014
Peer Reviewer: Sheri Fling Date Completed: December 31, 2014

The table below summarizes the data package and sample identifications discussed in this data review.

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
WP-15-B-C-16	SA	URS098_WP-15-B-C-16	Wipe	X
WP-16-B-C-16	SA	URS098_WP-16-B-C-16	Wipe	X
WP-17-B-W-17	SA	URS098_WP-17-B-W-17	Wipe	X
WP-18-B-W-10	SA	URS098_WP-18-B-W-10	Wipe	X
WP-19-B-F-0	SA	URS098_WP-19-B-F-0	Wipe	X^m
WP-20-B-F-0	SA	URS098_WP-20-B-F-0	Wipe	X
WP-21-F-C-16	SA	URS098_WP-21-F-C-16	Wipe	X
WP-22-F-W-5	SA	URS098_WP-22-F-W-5	Wipe	X
WP-23-F-F-0	SA	URS098_WP-23-F-F-0	Wipe	X
WP-24-F-W-5	SA	URS098_WP-24-F-W-5	Wipe	X
WP-25-G-W-2	SA	URS098_WP-25-G-W-2	Wipe	X
WP-26-G-F-0	SA	URS098_WP-26-G-F-0	Wipe	X
WP-27-D-F-0	SA	URS098_WP-27-D-F-0	Wipe	X

Sample Type: SA – Sample X^m - Matrix Spike/Matrix Spike Duplicate
Analyses: PCBs – Polychlorinated Biphenyls

This report contains the final results of the data review conducted for soil samples collected in September 2014 for Moline Street PCB Site Investigation and Removal Action. The sample results were presented in one data package. The data review was conducted in accordance with the Quality Assurance Project Plan, Moline Street PCB Site Investigation and Removal Action (URS, February 2014) and evaluation of laboratory criteria, as applicable.

Full validation (recalculation and checking for transcription errors) for Method 8082A was conducted on data package URS098-Soil. In addition, summary forms for all laboratory parameters (initial calibration, continuing calibration, laboratory control samples) were reviewed for all data packages. The laboratory only reported 2nd column confirmation results for data packages

URS098-Soil, URS-098-Wipe, and URS101. Per Method 8082A, 2nd column confirmation is only required when the sample composition is not well characterized.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification (noted below).
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL), have been qualified as estimated (J SQL-I). All other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by ChemSolutions in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6°C temperature range. The laboratory noted that custody seals were not present on the sample coolers. As the samples were hand-delivered to the laboratory shortly after sample collection, data qualification was not considered necessary.
Holding Times	Yes	All samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank	Yes	Target analytes were not detected within the method blank or the blank wipe.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate WP-19-B-F-0	Yes	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** The MS/MSD recoveries and relative percent differences (RPDs) met quality control criteria. Per Method 8082A, MS/MSD samples are only spiked with aroclors 1016 and 1260. The frequency of MS/MSDs met the quality assurance project plan (QAPP) requirement of one per twenty samples. When MS/MSD issues accounted for less than 35% of the MS/MSD analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS/MSD results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required due to MS/MSD recoveries and RPDs.
Laboratory Performance • Laboratory Control Sample	Yes	The laboratory control sample (LCS) recoveries met quality control criteria. Per Method 8082A, aroclors 1016 and 1260 are spiked for the LCS, indicating acceptable accuracy with respect to the analytical method.
Method Quality Control • Surrogates	No	With the exceptions listed in Table 1, all of the surrogate recoveries were within the laboratory specified acceptance criteria for the site samples. In some instances, the surrogate recoveries could not be calculated due to the samples being diluted (≥20X) beyond the laboratory's ability to quantitate recoveries.

Review Parameter	Criteria Met?	Comment
Field Quality Control • Field Duplicate None	NA	**Field Duplicate** A field duplicate was not submitted with the samples in this data package. The frequency of field duplicates met the QAPP requirement of one per twenty samples. When field duplicates issues accounted for less than 35% of the field duplicate analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the field duplicate results did not meet criteria, evaluation was extended to all associated samples.
Reporting limits met?	Yes	No results were reported as non-detect at elevated reporting limits.
Other Parameters • 2nd Column	No	Per Method 8082A, the samples require a 2nd column confirmation when the sample composition is not well characterized for positive detections. A 2nd column confirmation was performed on data packages URS098-Soil for soils, URS-098-Wipe for wipes, and URS101 for concrete. The RPD between the primary column and confirmation column results were within the method criteria of ≤40% for the concrete samples (URS101). The RPD between the primary and confirmation column results exceeded the ≤40% criteria for several soil samples. Sample WP-25-G-W-2 had an RPD outside the method criteria for aroclor 1248; therefore, the associated result was qualified as estimated (J ID-I). In reviewing the chromatograms for the soil samples, there is evidence of a coeluting interferent with peak 1 for aroclor 1254 on the second column. The interfering peak caused the confirmation results to be high than the reported results. The RPD between the primary and confirmation columns were within the method criteria of ≤40% when the interfering peak was subtracted. Results are summarized in Table 2.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.

> - Greater Than
< - Less Than
≤ - Less Than or Equal to
% - Percent
°C – Degrees Celsius
COC – Chain of Custody
I – Indeterminate Bias
ID - Identification
J - Estimated
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
QAPP – Quality Assurance Project Plan
RL – Reporting Limit
RPDs – Relative Percent Differences

Table 1:
Surrogate Recovery Outliers and Resultant Data Qualification

Associated Sample	Surrogate	%R (Limits)	Qualification
WP-27-D-F-0	Decachlorobiphenyl	48.8 (50-140)	All PCB results for sample WP-27-D-F-0 were qualified as estimated (UJ/J SUR-L) to reflect the potential low bias.

%R – percent recovery
SUR – Surrogate Recovery
UJ/J - Estimated
L – Low
PCB – Polychlorinated Biphenyl

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-15-B-C-16
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-15-B-C-16
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.12	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	J J SQL-I
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	109	10/3/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-16-B-C-16
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-16-B-C-16
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.21	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	94.4	10/3/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-17-B-W-7
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-17-B-W-7
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.67	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1254	2.1	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	84.0	10/3/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-18-B-W-10
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-18-B-W-10
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.33	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1254	0.51	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	75.6	10/3/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-19-B-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-19-B-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.85	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1254	0.66	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	69.2	10/3/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-20-B-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-20-B-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	1.3	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1254	0.85	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	70.4	10/3/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-21-F-C-16
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-21-F-C-16
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.29	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	84.4	10/3/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-22-F-W-5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-22-F-W-5
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.060	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	J J SQL-I
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	75.6	10/3/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-23-F-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-23-F-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.35	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1254	0.79	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	80.8	10/3/2014	Surrogate QC Limits 50-140%

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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-24-G-W-5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-24-G-W-5
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.028	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	J J SQL-I
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	86.8	10/3/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-25-G-W-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-25-G-W-2
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.057	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	J J SQL
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	82.8	10/3/2014	Surrogate QC Limits 50-140%

KA 12/31/14
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KA 12/18/14
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ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-26-G-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-26-G-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	0.25	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	88.0	10/3/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS098

Client Sample ID: WP-27-D-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS098_WP-27-D-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/10/14
Date Received: 9/10/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	UJ SUR-L
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1248	2.4	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	J SUR-L
Aroclor 1254	1.3	0.20	0.020	ug/wipe	1	9/11/2014	10/3/2014	J SUR-L
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	UJ SUR-L
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/11/2014	10/3/2014	

ND=Not detected

Surrogate	% Recovery			
Decachlorobiphenyl	48.8	10/3/2014	Surrogate QC Limits 50-140%	N

KA 12/2/14

Moline Street PCB Site Investigation and Removal Action
Data Review Summary

Sample Delivery Group: URS099
Sampling Date: September 15, 2014
Data Reviewer: Katie Abbott Date Completed: December 11, 2014
Peer Reviewer: Sheri Fling Date Completed: December 31, 2014

The table below summarizes the data package and sample identifications discussed in this data review.

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
WP-29-I-C-16	SA	URS099_WP-29-I-C-16	Wipe	X
WP-30-I-C-16	SA	URS099_WP-30-I-C-16	Wipe	X
WP-31-I-C-16	SA	URS099_WP-31-I-C-16	Wipe	X
WP-32-I-C-16	SA	URS099_WP-32-I-C-16	Wipe	X
WP-33-I-W-3	SA	URS099_WP-33-I-W-3	Wipe	X
WP-34-I-W-7	SA	URS099_WP-34-I-W-7	Wipe	X
WP-34-I-W-7-FD	FD	URS099_WP-34-I-W-7-FD	Wipe	X
WP-35-I-W-3	SA	URS099_WP-35-I-W-3	Wipe	X^m
WP-36-I-W-2	SA	URS099_WP-36-I-W-2	Wipe	X
WP-37-I-W-6	SA	URS099_WP-37-I-W-6	Wipe	X
WP-38-I-F-0	SA	URS099_WP-38-I-F-0	Wipe	X
WP-39-I-F-0	SA	URS099_WP-39-I-F-0	Wipe	X
WP-40-I-F-0	SA	URS099_WP-40-I-F-0	Wipe	X
WP-41-I-F-0	SA	URS099_WP-41-I-F-0	Wipe	X
WP-42-I-F-0	SA	URS099_WP-42-I-F-0	Wipe	X
WP-43-H-C-12	SA	URS099_WP-43-H-C-12	Wipe	X
WP-44-H-C-12	SA	URS099_WP-44-H-C-12	Wipe	X
WP-45-H-W-2	SA	URS099_WP-45-H-W-2	Wipe	X
WP-46-H-W-5	SA	URS099_WP-46-H-W-5	Wipe	X
WP-47-H-W-3	SA	URS099_WP-47-H-W-3	Wipe	X
WP-48-H-F-0	SA	URS099_WP-48-H-F-0	Wipe	X
WP-49-H-F-0	SA	URS099_WP-49-H-F-0	Wipe	X
WP-50-H-F-0	SA	URS099_WP-50-H-F-0	Wipe	X

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
WP-50-H-F-0-FD	FD	URS099_WP-50-H-F-0-FD	Wipe	X
WP-51-E-C-12	SA	URS099_WP-51-E-C-12	Wipe	X
WP-52-E-C-12	SA	URS099_WP-52-E-C-12	Wipe	X
WP-53-E-C-12	SA	URS099_WP-53-E-C-12	Wipe	X
WP-54-E-C-12	SA	URS099_WP-54-E-C-12	Wipe	X

Sample Type: SA – Sample X^m - Matrix Spike/Matrix Spike Duplicate
Analyses: PCBs – Polychlorinated Biphenyls

This report contains the final results of the data review conducted for soil samples collected in September 2014 for Moline Street PCB Site Investigation and Removal Action. The sample results were presented in one data package. The data review was conducted in accordance with the Quality Assurance Project Plan, Moline Street PCB Site Investigation and Removal Action (URS, February 2014) and evaluation of laboratory criteria, as applicable.

Full validation (recalculation and checking for transcription errors) for Method 8082A was conducted on data package URS098-Soil. In addition, summary forms for all laboratory parameters (initial calibration, continuing calibration, laboratory control samples) were reviewed for all data packages. The laboratory only reported 2nd column confirmation results for data packages URS098-Soil, URS-098-Wipe, and URS101. Per Method 8082A, 2nd column confirmation is only required when the sample composition is not well characterized.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification (noted below).
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL), have been qualified as estimated (J SQL-I). All other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by ChemSolutions in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6°C temperature range. The laboratory noted that custody seals were not present on the sample coolers. As the samples were hand-delivered to the laboratory shortly after sample collection, data qualification was not considered necessary.

Review Parameter	Criteria Met?	Comment
		In addition, the laboratory noted that sample WP-28-I-C-16 was not received at the laboratory but was listed on the COC; therefore, results were not reported.
Reporting	Yes	A revised report was issued by the laboratory to correct the aroclor 1248 result for sample WP-47-H-W-3, which was incorrectly reported as 0.0081 µg/wipe.
Holding Times	Yes	All samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank	Yes	Target analytes were not detected within the method blank or the blank wipe.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate WP-35-I-W-3	Yes	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** The MS/MSD recoveries and relative percent differences (RPDs) met quality control criteria. Per Method 8082A, MS/MSD samples are only spiked with aroclors 1016 and 1260. The frequency of MS/MSDs met the quality assurance project plan (QAPP) requirement of one per twenty samples. When MS/MSD issues accounted for less than 35% of the MS/MSD analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS/MSD results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required due to MS/MSD recoveries and RPDs.
Laboratory Performance • Laboratory Control Sample	Yes	The laboratory control sample (LCS) recoveries met quality control criteria. Per Method 8082A, aroclors 1016 and 1260 are spiked for the LCS, indicating acceptable accuracy with respect to the analytical method.
Method Quality Control • Surrogates	No	With the exceptions listed in Table 1, all of the surrogate recoveries were within the laboratory specified acceptance criteria for the site samples. In some instances, the surrogate recoveries could not be calculated due to the samples being diluted (≥20X) beyond the laboratory's ability to quantitate recoveries.
Field Quality Control • Field Duplicate WP-34-I-W-7/WP-34-I-W-7-FD WP-50-H-F-0/WP-50-H-F-0-FD	Yes	**Field Duplicate** The frequency of field duplicates met the QAPP requirement of one per twenty samples. The comparison between results of the field duplicate pair met the criteria listed below. Data qualification was not required. • When both the sample and duplicate values are >5x the reporting limit (RL) acceptable sampling and analytical precision is indicated by a RPD between the results of ≤50%. • Where the result for one or both analytes of the field duplicate pair is <5xRL, satisfactory precision is indicated if the absolute difference between the field duplicate results is <3.5xRL. When field duplicates issues accounted for less than 35% of the field duplicate analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the field duplicate results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required for the field duplicate results.
Reporting limits met?	Yes	No results were reported as non-detect at elevated reporting limits.

Review Parameter	Criteria Met?	Comment
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.

> - Greater Than
< - Less Than
≤ - Less Than or Equal to
% - Percent
°C – Degrees Celsius
µg - Micrograms
COC – Chain of Custody
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
QAPP – Quality Assurance Project Plan
RL – Reporting Limit
RPDs – Relative Percent Differences

Table 1:
Surrogate Recovery Outliers and Resultant Data Qualification

Associated Sample	Surrogate	%R (Limits)	Qualification
WP-39-I-F-0	Decachlorobiphenyl	35.2 (50-140)	The PCB results were qualified as estimated (UJ/J SUR-L) to reflect the potential low bias.
WP-45-H-W-2		46.4 (50-140)	

%R – percent recovery
SUR – Surrogate Recovery
UJ/J - Estimated
L – Low
PCB – Polychlorinated Biphenyl

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-29-I-C-16
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-29-I-C-16
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	86.8	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-30-I-C-16
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-30-I-C-16
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	96.8	10/3/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-31-I-C-16
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099-WP-31-I-C-16
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	116	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-32-I-C-16
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099-WP-32-I-C
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	84.0	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-33-I-W-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099-WP-33-I-W-3
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	82.0	10/4/2014	Surrogate QC Limits 50-140%

RA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-34-I-W-7
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-34-I-W-7
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.054	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	J J SQL-I
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	83.2	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-34-I-W-7-FD
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-34-I-W-7-FD
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.050	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	J J SQL-I
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	85.2	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-35-I-W-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-35-I-W-3
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.090	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	J J SOL-I
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	81.2	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-36-I-W-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-36-I-W-2
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	95.2	10/4/2014	Surrogate QC Limits 50-140%

RA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-37-I-W-6
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-37-I-W-6
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.068	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	J J SQL-I
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	80.4	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-38-I-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-38-I-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.38	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	1.2	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	91.2	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-39-I-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-39-I-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	UJ SUR-L
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.16	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	J J SOL, ~~LS~~ SUR-L
Aroclor 1254	0.25	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	J SUR-L
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	UJ SUR-L
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery			
Decachlorobiphenyl	35.2	10/4/2014	Surrogate QC Limits 50-140%	N

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-40-I-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-40-I-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.19	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	J J SQL-I
Aroclor 1254	0.36	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	70.0	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-41-I-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-41-I-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.56	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	0.84	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	62.0	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-42-I-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-42-I-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.78	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	0.80	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	69.2	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-43-H-C-12
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-43-H-C-12
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	72.8	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-44-H-C-12
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-44-H-C-12
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	71.2	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-45-H-W-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-45-H-W-2
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/18/2014	UJ SUR-L
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/18/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/18/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/18/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/18/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/18/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/18/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/18/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	46.4	Surrogate QC Limits 50-140%	N

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-46-H-W-5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-46-H-W-5
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.12	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	J J SQL-I
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	69.6	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-47-H-W-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-47-H-W-3
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.081	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	J J SQC-I
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	71.2	10/4/2014	Surrogate QC Limits 50-140%

KA 12/15/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-48-H-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-48-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.62	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	1.5	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	66.8	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-49-H-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-49-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.74	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	1.6	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	63.6	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-50-H-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-50-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.79	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	2.7	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	62.8	10/4/2014	Surrogate QC Limits 50-140%

KA 10/14/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-50-H-F-0-FD
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-50-F-0-FD
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	0.87	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	3.0	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	62.4	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-51-E-C-12
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-51-E-C-12
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	77.6	10/4/2014	Surrogate QC Limits 50-140%

KA 10/6/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-52-E-C-12
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-52-E-C-12
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	77.6	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-53-E-C-12
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-53-E-C-12
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	81.6	10/4/2014	Surrogate QC Limits 50-140%

KA 12/2/14

ChemSolutions LLC
Sample Results
Project ID: URS099

Client Sample ID: WP-54-E-C-12
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS099_WP-54-E-C-12
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/15/14
Date Received: 9/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/15/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	87.2	10/4/2014	Surrogate QC Limits 50-140%

KA 12/15/14

Moline Street PCB Site Investigation and Removal Action
Data Review Summary

Sample Delivery Group: URS100
Sampling Date: September 16, 2014
Data Reviewer: Katie Abbott Date Completed: December 11, 2014
Peer Reviewer: Sheri Fling Date Completed: December 31, 2014

The table below summarizes the data package and sample identifications discussed in this data review.

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
WP-55-E-W-2	SA	URS100_WP-55-E-W-2	Wipe	X^m
WP-56-E-W-5	SA	URS100_WP-56-E-W-5	Wipe	X
WP-57-E-W-4	SA	URS100_WP-57-E-W-4	Wipe	X
WP-58-E-W-5	SA	URS100_WP-58-E-W-5	Wipe	X
WP-59-E-W-3	SA	URS100_WP-59-E-W-3	Wipe	X
WP-60-E-F-0	SA	URS100_WP-60-E-F-0	Wipe	X
WP-60-E-F-0-FD	FD	URS100_WP-60-E-F-0-FD	Wipe	X
WP-61-E-F-0	SA	URS100_WP-61-E-F-0	Wipe	X
WP-62-E-F-0	SA	URS100_WP-62-E-F-0	Wipe	X
WP-63-E-F-0	SA	URS100_WP-63-E-F-0	Wipe	X
WP-64-E-F-0	SA	URS100_WP-64-E-F-0	Wipe	X^m
WP-65-I-Fan	SA	URS100_WP-65-I-Fan	Wipe	X

Sample Type: SA – Sample X^m - Matrix Spike/Matrix Spike Duplicate
Analyses: PCBs – Polychlorinated Biphenyls

This report contains the final results of the data review conducted for soil samples collected in September 2014 for Moline Street PCB Site Investigation and Removal Action. The sample results were presented in one data package. The data review was conducted in accordance with the Quality Assurance Project Plan, Moline Street PCB Site Investigation and Removal Action (URS, February 2014) and evaluation of laboratory criteria, as applicable.

Full validation (recalculation and checking for transcription errors) for Method 8082A was conducted on data package URS098-Soil. In addition, summary forms for all laboratory parameters (initial calibration, continuing calibration, laboratory control samples) were reviewed for all data packages. The laboratory only reported 2nd column confirmation results for data packages URS098-Soil, URS-098-Wipe, and URS101. Per Method 8082A, 2nd column confirmation is only required when the sample composition is not well characterized.

General Overall Assessment:

__X__ Data are usable without qualification.
_____ Data are usable with qualification (noted below).
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL), have been qualified as estimated (J SQL-I). All other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by ChemSolutions in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6°C temperature range. The laboratory noted that custody seals were not present on the sample coolers. As the samples were hand-delivered to the laboratory shortly after sample collection, data qualification was not considered necessary.
Holding Times	Yes	All samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank	Yes	Target analytes were not detected within the method blank or the blank wipe.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate WP-55-E-W-2 WP-64-E-F-0	No	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** The MS/MSD recoveries and relative percent differences (RPDs) met quality control criteria. Per Method 8082A, MS/MSD samples are only spiked with aroclors 1016 and 1260. The frequency of MS/MSDs met the quality assurance project plan (QAPP) requirement of one per twenty samples. The laboratory noted that due to an overlap of aroclors 1248 and 1254 peaks with the aroclor 1016 and 1260 spike peaks in the MS/MSD, the concentrations of aroclors 1248 and 1254 in the parent samples were quantitated as aroclor 1016 and 1260. The aroclor 1016 and 1260 parent results were subtracted from the MS/MSD aroclor 1016 and 1260 results to determine the percent recoveries for aroclors 1016 and 1260 in the MS/MSD. Table 1 presents the MS and MSD results. When MS/MSD issues accounted for less than 35% of the MS/MSD analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS/MSD results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required due to MS/MSD recoveries and RPDs.
Laboratory Performance • Laboratory Control Sample	Yes	The laboratory control sample (LCS) recoveries met quality control criteria. Per Method 8082A, aroclors 1016 and 1260 are spiked for the LCS, indicating acceptable accuracy with respect to the analytical method.
Method Quality Control • Surrogates	Yes	All of the surrogate recoveries were within the laboratory specified acceptance criteria for the site samples.
Field Quality Control • Field Duplicate WP-60-E-F-0/WP-60-E-F-0-FD	Yes	**Field Duplicate** The frequency of field duplicates met the QAPP requirement of one per twenty samples.

Review Parameter	Criteria Met?	Comment
		The comparison between results of the field duplicate pair met the criteria listed below. Data qualification was not required. • When both the sample and duplicate values are >5x the reporting limit (RL) acceptable sampling and analytical precision is indicated by a RPD between the results of ≤50%. • Where the result for one or both analytes of the field duplicate pair is <5xRL, satisfactory precision is indicated if the absolute difference between the field duplicate results is <3.5xRL. When field duplicates issues accounted for less than 35% of the field duplicate analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the field duplicate results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required for the associated field duplicates.
Reporting limits met?	Yes	No results were reported as non-detect at elevated reporting limits.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.

> - Greater Than
< - Less Than
≤ - Less Than or Equal to
% - Percent
°C – Degrees Celsius
COC – Chain of Custody
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
QAPP – Quality Assurance Project Plan
RL – Reporting Limit
RPDs – Relative Percent Differences

Table 1:
MS/MSD Recovery and RPD Outliers and Resultant Data Qualification

Associated Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
WP-55-E-W-2	Aroclor 1016	81.8/81.7 (70-130)	0.12 (35)	As the aroclor 1248 and 1254 peaks overlapped with arochlor 1016 and 1260 peaks, the MS/MSD recoveries of aroclors 1016 and 1260 were calculated using the parent results from the overlap of 1248 and 1254 peaks. Data qualificaiton was not considered necesssary, as MS/MSD recoveres were within acceptance limits, and the RPD of aroclor 1016 was only slightly above the RPD limit.
	Aroclor 1260	78.9/83.2 (70-130)	5 (35)	
WP-64-E-F-0	Aroclor 1016	77.0/113 (70-130)	**38** (35)	
	Aroclor 1260	73.8/93.6 (70-130)	24 (35)	

%R – Percent Recoveries
MS/MSD – Matrix Spike/Matrix Spike Duplicate
RPD – Relative Percent Difference
Bold indicates a recovery outside of acceptance limits.

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-55-E-W-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-55-E-W-2
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	77.6	10/4/2014	Surrogate QC Limits 50-140%

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-56-E-W-5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-56-E-W-5
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/18/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/18/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/18/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/18/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/18/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/18/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/18/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/18/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	76.8	10/18/2014	Surrogate QC Limits 50-140%

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-57-E-W-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-57-E-W-4
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1254	0.28	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	79.6	10/4/2014	Surrogate QC Limits 50-140%

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-58-E-W-5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-58-E-W-5
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	113	10/4/2014	Surrogate QC Limits 50-140%

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-59-E-W-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-59-E-W-3
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	84.0	10/4/2014	Surrogate QC Limits 50-140%

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-60-E-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-60-E-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1248	1.0	0.20	0.020	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1254	7.9	2.0	0.20	ug/wipe	10	9/17/2014	10/5/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/5/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	71.6	10/5/2014 (1x)	Surrogate QC Limits 50-140%
Decachlorobiphenyl	88.0	10/5/2014 (10x)	

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-60-E-F-0-FD
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-60-E-F-0-FD
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1248	1.5	0.20	0.020	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1254	12	2.0	0.20	ug/wipe	10	9/17/2014	10/5/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/5/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/5/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	80.0	10/5/2014 (1x)	Surrogate QC Limits 50-140%
Decachlorobiphenyl	116	10/5/2014 (10x)	

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-61-E-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-61-E-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1254	1.5	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	75.2	10/4/2014	Surrogate QC Limits 50-140%

KA 12/5/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-62-E-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-62-E-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1254	0.62	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	78.8	10/4/2014	Surrogate QC Limits 50-140%

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-63-E-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-63-E-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1254	0.37	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	82.4	10/4/2014	Surrogate QC Limits 50-140%

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-64-E-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-64-E-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	~~UJ D-I~~
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1248	0.48	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1254	0.70	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	70.8	10/4/2014	Surrogate QC Limits 50-140%

KA 12/3/14 KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS100

Client Sample ID: WP-65-I-Fan
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS100_WP-65-I-Fan
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 9/16/14
Date Received: 9/16/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1248	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1254	ND	0.20	0.020	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	9/17/2014	10/4/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	69.2	10/4/2014	Surrogate QC Limits 50-140%

KA 12/3/14

Moline Street PCB Site Investigation and Removal Action
Data Review Summary

Sample Delivery Group: URS101
Sampling Date: September 24, 2014
Data Reviewer: Katie Abbott Date Completed: December 11, 2014
Peer Reviewer: Sheri Fling Date Completed: December 31, 2014

The table below summarizes the data package and sample identifications discussed in this data review.

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
CON-1-D-N-0	SA	URS101_CON-1-D-N-0	Concrete	X
CON-2-D-E-0	SA	URS101_CON-2-D-E-0	Concrete	X
CON-3-D-W-0	SA	URS101_CON-3-D-W-0	Concrete	X
EXC-15-D-F-1	SA	URS101_EXC-15-D-F-1	Soil	X^m
EXC-13-D-E-1	SA	URS101_EXC-13-D-E-1	Soil	X
EXC-12-D-N-1	SA	URS101_EXC-12-D-N-1	Soil	X
EXC-14-D-W-1	SA	URS101_EXC-14-D-W-1	Soil	X
EXC-11-F-N-1	SA	URS101_EXC-11-F-N-1	Soil	X

Sample Type: SA – Sample X^m - Matrix Spike/Matrix Spike Duplicate
Analyses: PCBs – Polychlorinated Biphenyls

This report contains the final results of the data review conducted for soil samples collected in September 2014 for Moline Street PCB Site Investigation and Removal Action. The sample results were presented in one data package. The data review was conducted in accordance with the Quality Assurance Project Plan, Moline Street PCB Site Investigation and Removal Action (URS, February 2014) and evaluation of laboratory criteria, as applicable.

Full validation (recalculation and checking for transcription errors) for Method 8082A was conducted on data package URS098-Soil. In addition, summary forms for all laboratory parameters (initial calibration, continuing calibration, laboratory control samples) were reviewed for all data packages. The laboratory only reported 2nd column confirmation results for data packages URS098-Soil, URS-098-Wipe, and URS101. Per Method 8082A, 2nd column confirmation is only required when the sample composition is not well characterized.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification (noted below).
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL), have been qualified as estimated (J SQL-I). All other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by ChemSolutions in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6°C temperature range. The laboratory noted that custody seals were not present on the sample coolers. As the samples were hand-delivered to the laboratory shortly after sample collection, data qualification was not considered necessary.
Holding Times	Yes	All samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank	Yes	Target analytes were not detected within the method blank or the blank wipe.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate EXC-15-D-F-1	No	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** With the exceptions listed in Table 1, the MS/MSD recoveries and relative percent differences (RPDs) met quality control criteria. Per Method 8082A, MS/MSD samples are only spiked with aroclors 1016 and 1260. The frequency of MS/MSDs met the quality assurance project plan (QAPP) requirement of one per twenty samples. The laboratory noted that due to an overlap of aroclors 1248 and 1254 peaks with the aroclor 1016 and 1260 spike peaks in the MS/MSD, the concentrations of aroclors 1248 and 1254 in the parent samples were quantitated as aroclor 1016 and 1260. The aroclor 1016 and 1260 parent results were subtracted from the MS/MSD aroclor 1016 and 1260 results to determine the percent recoveries for aroclors 1016 and 1260 in the MS/MSD. Table 1 presents the MS and MSD results. When MS/MSD issues accounted for less than 35% of the MS/MSD analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS/MSD results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required due to MS/MSD recoveries and RPDs.
Laboratory Performance • Laboratory Control Sample	Yes	The laboratory control sample (LCS) recoveries met quality control criteria. Per Method 8082A, aroclors 1016 and 1260 are spiked for the LCS, indicating acceptable accuracy with respect to the analytical method.
Method Quality Control • Surrogates	Yes	All of the surrogate recoveries were within the laboratory specified acceptance criteria for the site samples. In some instances, the surrogate recoveries could not be calculated due to the samples being diluted (≥20X) beyond the laboratory's ability to quantitate recoveries.
Field Quality Control • Field Duplicate None	No	**Field Duplicate** A field duplicate was not submitted with the samples in this data package. The frequency of field duplicates met the QAPP requirement of one per twenty samples.

Review Parameter	Criteria Met?	Comment
		When field duplicates issues accounted for less than 35% of the field duplicate analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the field duplicate results did not meet criteria, evaluation was extended to all associated samples. As >35% of the soil field duplicate results were outside the applicable evaluation criterion, the aroclor 1254 results for all soil field duplicate results, with the exception of samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD, were qualified as estimated (J FD-I). As the RPD between the field duplicate results for samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD were within control limits, data qualification was not considered necessary.
Reporting limits met?	Yes	No results were reported as non-detect at elevated reporting limits.
2nd Column	No	Per Method 8082A, the samples require a 2nd column confirmation when the sample composition is not well characterized for positive detections. A 2nd column confirmation was performed on data packages URS098-Soil for soils, URS-098-Wipe for wipes, and URS101 for concrete. The RPD between the primary column and confirmation column results were within the method criteria of ≤40% for the concrete samples (URS101). The RPD between the primary and confirmation column results exceeded the ≤40% criteria for several soil samples. Sample WP-25-G-W-2 had an RPD outside the method criteria for aroclor 1248; therefore, the associated result was qualified as estimated (J ID-I). In reviewing the chromatograms for the soil samples, there is evidence of a coeluting interferent with peak 1 for aroclor 1254 on the second column. The interfering peak caused the confirmation results to be high than the reported results. The RPD between the primary and confirmation columns were within the method criteria of ≤40% when the interfering peak was subtracted. Results are summarized in Table 2.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.

> - Greater Than
< - Less Than
≤ - Less Than or Equal to
% - Percent
°C – Degrees Celsius
COC – Chain of Custody
FD – Field Duplicate
I – Indeterminate Bias
ID - Identification
J - Estimated
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
QAPP – Quality Assurance Project Plan
RL – Reporting Limit
RPDs – Relative Percent Differences

Table 1:
MS/MSD Recovery and RPD Outliers and Resultant Data Qualification

Associated Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
EXC-15-D-F-1	Aroclor 1016	100/87.3 (70-130)	14 (35)	As the aroclor 1248 and 1254 peaks overlapped with arochlor 1016 and 1260 peaks, the MS/MSD recoveries of aroclors 1016 and 1260 were calculated using the parent results from the overlap of 1248 and 1254 peaks. Data qualificaiton was not considered necesssary, as MS/MSD recoveres were within acceptance limits, and the RPD of aroclor 1016 was only slightly above the RPD limit.
	Aroclor 1260	88.3/128 (70-130)	**37** (35)	

%R – Percent Recoveries MS/MSD – Matrix Spike/Matrix Spike Duplicate RPD – Relative Percent Difference
Bold indicates a recovery outside of acceptance limits.

ChemSolutions LLC
Sample Results
Project ID: URS101

Client Sample ID: CON-1-D-N-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS101_CON-1-D-N-0
Sample Matrix: Concrete
EPA Method 8082A

Date Sampled: 9/24/14
Date Received: 9/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1248	0.34	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1254	0.40	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	9/24/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	74.0	10/14/2014	Surrogate QC Limits 61-150

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS101

Client Sample ID: CON-2-D-E-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS101_CON-2-D-E-0
Sample Matrix: Concrete
EPA Method 8082A

Date Sampled: 9/24/14
Date Received: 9/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1248	0.82	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1254	0.63	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	9/24/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	77.6	10/14/2014	Surrogate QC Limits 61-150

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS101

Client Sample ID: CON-3-D-W-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS101_CON-3-D-W-0
Sample Matrix: Concrete
EPA Method 8082A

Date Sampled: 9/24/14
Date Received: 9/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1248	0.54	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1254	0.38	0.10	0.012	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	9/24/2014	10/14/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	9/24/2014	10/14/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	84.0	10/14/2014	Surrogate QC Limits 61-150

KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS101

Client Sample ID: EXC-15-D-F-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS101_EXC-15-D-F-1
Dry Weight Basis, % Solid=85.4
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 9/24/14
Date Received: 9/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1248	0.28	0.12	0.014	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1254	0.45	0.12	0.014	mg/Kg	1	9/24/2014	10/15/2014	J FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	9/24/2014	10/15/2014	~~J D-I~~
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	9/24/2014	10/15/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	106	10/15/2014	Surrogate QC Limits 61-150

KA 12/5/14 KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS101

Client Sample ID: EXC-13-D-E-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS101_EXC-13-D-E-1
Sample Matrix: Soil
Dry Weight Basis, % Solid=94.6
EPA Method 8082A

Date Sampled: 9/24/14
Date Received: 9/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1248	0.75	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1254	1.6	0.55	0.065	mg/Kg	5	9/24/2014	10/15/2014	J FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	81.6	10/15/2014 (1x)	Surrogate QC Limits 61-150
Decachlorobiphenyl	128	10/15/2014 (5x)	

KA 12/3/14 KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS101

Client Sample ID: EXC-12-D-N-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS101_EXC-12-D-N-1
Dry Weight Basis, % Solid=89.3
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 9/24/14
Date Received: 9/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1248	0.20	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1254	0.15	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	J FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	93.2	10/15/2014	Surrogate QC Limits 61-150

KA 12/3/14 KA 12/3/14

ChemSolutions LLC
Sample Results
Project ID: URS101

Client Sample ID: EXC-14-D-W-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS101_EXC-14-D-W-1
Sample Matrix: Soil
Dry Weight Basis, % Solid=94.9
EPA Method 8082A

Date Sampled: 9/24/14
Date Received: 9/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1248	0.16	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1254	0.21	0.11	0.013	mg/Kg	1	9/24/2014	10/15/2014	J FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	84.0	10/15/2014	Surrogate QC Limits 61-150

KA 12/3/14 KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS101

Client Sample ID: EXC-11-F-N-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS101_EXC-11-F-N-1
Sample Matrix: Soil
Dry Weight Basis, % Solid=88.1
EPA Method 8082A

Date Sampled: 9/24/14
Date Received: 9/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1248	17	2.2	0.28	mg/Kg	20	9/24/2014	10/15/2014	
Aroclor 1254	7.9	1.1	0.14	mg/Kg	10	9/24/2014	10/15/2014	J FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	9/24/2014	10/15/2014	

ND=Not detected

Surrogate	% Recovery			
Decachlorobiphenyl	108	10/15/2014 (1x)	Surrogate QC Limits 61-150	
Decachlorobiphenyl	160	10/15/2014 (20x)		N
Decachlorobiphenyl	88.0	10/15/2014 (10x)		

KA 12/3/14 KA 12/11/14

Moline Street PCB Site Investigation and Removal Action
Data Review Summary

Sample Delivery Group: URS102
Sampling Date: October 2, 2014
Data Reviewer: Katie Abbott Date Completed: December 11, 2014
Peer Reviewer: Sheri Fling Date Completed: December 31, 2014

The table below summarizes the data package and sample identifications discussed in this data review.

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
CON-4-D-NW-0	SA	URS102_CON-4-D-NW-0	Concrete	X^m
EXC-16-B-F-4	SA	URS102_EXC-16-B-F-4	Soil	X
EXC-17-D-F-2	SA	URS102_EXC-17-D-F-2	Soil	X
EXC-18-D-F-2	SA	URS102_EXC-18-D-F-2	Soil	X
EXC-19-D-F-2	SA	URS102_EXC-19-D-F-2	Soil	X
EXC-20-D-E-1.5	SA	URS102_EXC-20-D-E-1.5	Soil	X
EXC-21-D-W-1.5	SA	URS102_EXC-21-D-W-1.5	Soil	X
EXC-22-D-S1-1.5	SA	URS102_EXC-22-D-S1-1.5	Soil	X
EXC-23-D-S2-1.5	SA	URS102_EXC-23-D-S2-1.5	Soil	X
EXC-24-D-S3-1.5	SA	URS102_EXC-24-D-S3-1.5	Soil	X
EXC-16-B-F-4-FD	FD	URS102_EXC-16-B-F-4-FD	Soil	X
WP-66-D-F-0	SA	URS102_WP-66-D-F-0	Wipe	X
WP-67-E-F-0*	SA	URS102_WP-66-H-F-0	Wipe	X

Sample Type: FD – Field Duplicate SA – Sample X^m - Matrix Spike/Matrix Spike Duplicate
Analyses: PCBs – Polychlorinated Biphenyls
*Sample ID corrected to reflect the proper nomenclature.

This report contains the final results of the data review conducted for soil samples collected in September 2014 for Moline Street PCB Site Investigation and Removal Action. The sample results were presented in one data package. The data review was conducted in accordance with the Quality Assurance Project Plan, Moline Street PCB Site Investigation and Removal Action (URS, February 2014) and evaluation of laboratory criteria, as applicable.

Full validation (recalculation and checking for transcription errors) for Method 8082A was conducted on data package URS098-Soil. In addition, summary forms for all laboratory parameters (initial calibration, continuing calibration, laboratory control samples) were reviewed for all data packages. The laboratory only reported 2nd column confirmation results for data packages

URS098-Soil, URS-098-Wipe, and URS101. Per Method 8082A, 2nd column confirmation is only required when the sample composition is not well characterized.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification (noted below).
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL), have been qualified as estimated (J SQL-I). All other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by ChemSolutions in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6°C temperature range. The laboratory noted that custody seals were not present on the sample coolers. As the samples were hand-delivered to the laboratory shortly after sample collection, data qualification was not considered necessary. Sample WP-67-E-F-0 was incorrectly listed on the COC and labels as WP-67-H-F-0. The sample identification (ID) was changed on the data sheets and in the electronic database to correctly list the ID as WP-67-E-F-0.
Holding Times	Yes	All samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank	Yes	Target analytes were not detected within the method blank or the blank wipe.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate CON-4-D-NW-0	No	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** With the exception listed in Table 1, the MS/MSD recoveries and relative percent differences (RPDs) met quality control criteria. Per Method 8082A, MS/MSD samples are only spiked with aroclors 1016 and 1260. The frequency of MS/MSDs met the quality assurance project plan (QAPP) requirement of one per twenty samples. Results in the native sample greater than four times the concentration of the spike added during digestions are not considered to be a representative measure of accuracy. Further action or qualification of data was not considered necessary. When MS/MSD issues accounted for less than 35% of the MS/MSD analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS/MSD results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required due to MS/MSD recoveries and RPDs.
Laboratory Performance • Laboratory Control Sample	Yes	The laboratory control sample (LCS) recoveries met quality control criteria. Per Method 8082A, aroclors 1016 and 1260 are spiked for the LCS, indicating acceptable accuracy with respect to the analytical method.
Method Quality Control • Surrogates	Yes	All of the surrogate recoveries were within the laboratory specified acceptance criteria for the site samples.

Review Parameter	Criteria Met?	Comment
Field Quality Control • Field Duplicate EXC-16-B-F-4/EXC-16-B-F-4-FD	No	**Field Duplicate** The frequency of field duplicates met the QAPP requirement of one per twenty samples. The comparison between results of the field duplicate pair met the criteria listed below. Data qualification was not required. • When both the sample and duplicate values are >5x the reporting limit (RL) acceptable sampling and analytical precision is indicated by a relative percent difference (RPD) between the results of ≤50%. • Where the result for one or both analytes of the field duplicate pair is <5xRL, satisfactory precision is indicated if the absolute difference between the field duplicate results is <3.5xRL. When field duplicates issues accounted for less than 35% of the field duplicate analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the field duplicate results did not meet criteria, evaluation was extended to all associated samples. As >35% of the soil field duplicate results were outside the applicable evaluation criterion, the aroclor 1254 results for all soil field duplicate results, with the exception of samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD, were qualified as estimated (J FD-I). As the RPD between the field duplicate results for samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD were within control limits, data qualification was not considered necessary.
Reporting limits met?	Yes	No results were reported as non-detect at elevated reporting limits.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.

> - Greater Than
< - Less Than
≤ - Less Than or Equal to
% - Percent
°C – Degrees Celsius
COC – Chain of Custody
FD – Field Duplicate
I – Indeterminate Bias
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
QAPP – Quality Assurance Project Plan
RL – Reporting Limit
RPDs – Relative Percent Differences
UJ/J – Estimated

Table 1:
MS/MSD Recovery and RPD Outliers and Resultant Data Qualification

Associated Sample	Analyte	%R* (Limits)	RPD (Limit)	Qualification
CON-4-D-NW-0	Aroclor 1016	**200/220** (70-130)	9.52 (35)	As >35% of the associated concrete MS/MSDs were outside control limits, data qualification was extended to all concrete samples. As the potential bias was considered to be high, and the associated analytes were reported as non-detect, data qualification was not considered necessary.
	Aroclor 1260	**274/315** (70-130)	13.9 (35)	

%R – Percent Recoveries
D – Duplicate
RPD – Relative Percent Difference
% - Percent
I – Indeterminate Bias
UJ - Estimated
> - Greater Than
MS/MSD – Matrix Spike Matrix Spike Duplicate

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: CON-4-D-NW-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_CON-4-D-NW-0
Sample Matrix: Concrete
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	2.4	1.0	0.12	mg/Kg	10	10/2/2014	10/3/2014	
Aroclor 1254	3.6	1.0	0.12	mg/Kg	10	10/2/2014	10/3/2014	
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	78.8	10/2/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	124	10/3/2014	

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: EXC-16-B-F-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_EXC-16-B-F-4
Dry Weight Basis, % Solid=87.6
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	1.2	0.11	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1254	0.66	0.11	0.014	mg/Kg	1	10/2/2014	10/2/2014	~~J FD-J~~
Aroclor 1260	ND	0.11	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.11	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.11	0.013	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	105	10/2/2014	Surrogate QC Limits 61-150

KA 12/4/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: EXC-17-D-F-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_EXC-17-D-F-2
Dry Weight Basis, % Solid=84.4
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1254	0.058	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	J J SOL, FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	100	10/2/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: EXC-18-D-F-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_EXC-18-D-F-2
Dry Weight Basis, % Solid=78.8
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.13	0.015	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.13	0.015	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.13	0.015	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.13	0.015	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	ND	0.13	0.015	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1254	ND	0.13	0.015	mg/Kg	1	10/2/2014	10/2/2014	UJ FD-I
Aroclor 1260	ND	0.13	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.13	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.13	0.014	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	111	10/2/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: EXC-19-D-F-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_EXC-19-D-F-2
Dry Weight Basis, % Solid=86.0
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	0.017	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	J J SQL-I
Aroclor 1254	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	UJ FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	103	10/2/2014	Surrogate QC Limits 61-150

KA 12/11/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: EXC-20-D-E-1.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_EXC-20-D-E-1.5
Dry Weight Basis, % Solid=82.3
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.015	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.12	0.015	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.12	0.015	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.12	0.015	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	0.042	0.12	0.015	mg/Kg	1	10/2/2014	10/2/2014	J J SOL-I
Aroclor 1254	ND	0.12	0.015	mg/Kg	1	10/2/2014	10/2/2014	UJ FO-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	112	10/2/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: EXC-21-D-W-1.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_EXC-21-D-W-1.5
Dry Weight Basis, % Solid=83.7
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1254	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	UJ FD-1
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	112	10/2/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: EXC-22-D-S1-1.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_EXC-22-D-S1-1.5
Dry Weight Basis, % Solid=85.0
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1254	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	UJ FO-I
Aroclor 1260	0.087	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	J J SOL-I
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	125	10/2/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: EXC-23-D-S2-1.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_EXC-23-D-S2-1.5
Dry Weight Basis, % Solid=83.7
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	0.27	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1254	0.29	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	J FO-1
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	123	10/2/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: EXC-24-D-S3-1.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_EXC-24-D-S3-1.5
Dry Weight Basis, % Solid=83.8
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1254	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	UJ FD-7
Aroclor 1260	0.16	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	124	10/2/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: EXC-16-B-F-FD
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_EXC-16-B-F-4-FD
Dry Weight Basis, % Solid=86.7
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1248	1.0	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1254	0.49	0.12	0.014	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	116	10/2/2014	Surrogate QC Limits 61-150

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: WP-66-D-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_WP-66-D-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1248	1.9	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1254	1.0	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	65.6	10/2/2014	Surrogate QC Limits 50-140%

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS102

Client Sample ID: WP-67-~~H~~E-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS102_WP-67-~~H~~E-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 10/2/14
Date Received: 10/2/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1248	0.56	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1254	1.9	0.20	0.020	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	10/2/2014	10/2/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	10/2/2014	10/2/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	65.2	10/2/2014	Surrogate QC Limits 50-140%

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Moline Street PCB Site Investigation and Removal Action
Data Review Summary

Sample Delivery Group: URS103
Sampling Date: October 15, 2014
Data Reviewer: Katie Abbott Date Completed: December 11, 2014
Peer Reviewer: Sheri Fling Date Completed: December 31, 2014

The table below summarizes the data package and sample identifications discussed in this data review.

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
CON-5-C-W-0	SA	URS103_CON-5-C-W-0	Concrete	X
CON-5-C-W-0-FD	FD	URS103_CON-5-C-W-0-FD	Concrete	X
CON-6-C-E-0	SA	URS103_CON-6-C-E-0	Concrete	X
CON-7-C-S-0	SA	URS103_CON-7-C-S-0	Concrete	X
EXC-25-C-F-4	SA	URS103_EXC-25-C-F-4	Soil	X
EXC-26-C-N-3	SA	URS103_EXC-26-C-N-3	Soil	X
EXC-27-C-E1-2	SA	URS103_EXC-27-C-E1-2	Soil	X
EXC-28-C-E2-3	SA	URS103_EXC-28-C-E2-3	Soil	X
EXC-29-C-E3-3	SA	URS103_EXC-29-C-E3-3	Soil	X
EXC-30-C-S1-3	SA	URS103_EXC-30-C-S1-3	Soil	X
EXC-31-C-S2-2	SA	URS103_EXC-31-C-S2-2	Soil	X
EXC-32-C-W1-2	SA	URS103_EXC-32-C-W1-2	Soil	X
EXC-33-C-W2-1	SA	URS103_EXC-33-C-W2-1	Soil	X
EXC-34-C-W3-3	SA	URS103_EXC-34-C-W3-3	Soil	X
EXC-35-C-F-5	SA	URS103_EXC-35-C-F-5	Soil	X
EXC-35-C-F-5-FD	FD	URS103_EXC-35-C-F-5-FD	Soil	X
EXC-36-C-N1-4	SA	URS103_EXC-36-C-N1-4	Soil	X
EXC-37-C-N2-3	SA	URS103_EXC-37-C-N2-3	Soil	X
EXC-38-C-E1-4	SA	URS103_EXC-38-C-E1-4	Soil	X
EXC-39-C-E2-3	SA	URS103_EXC-39-C-E2-3	Soil	X
EXC-40-C-E3-3	SA	URS103_EXC-40-C-E3-3	Soil	X
EXC-41-C-E4-2	SA	URS103_EXC-41-C-E4-2	Soil	X
EXC-42-C-E5-2	SA	URS103_EXC-42-C-E5-2	Soil	X

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
EXC-43-C-S-4	SA	URS103_EXC-43-C-S-4	Soil	X
EXC-44-C-W-4	SA	URS103_EXC-44-C-W-4	Soil	X
EXC-45-D-F1-6.5	SA	URS103_EXC-45-D-F1-6.5	Soil	X^m
EXC-46-D-F2-6.5	SA	URS103_EXC-46-D-F2-6.5	Soil	X^m
EXC-47-D-F3-6.5	SA	URS103_EXC-47-D-F3-6.5	Soil	X
EXC-48-D-F4-6.5	SA	URS103_EXC-48-D-F4-6.5	Soil	X
EXC-49-D-N1-4	SA	URS103_EXC-49-D-N1-4	Soil	X
EXC-50-D-N2-6	SA	URS103_EXC-50-D-N2-6	Soil	X
EXC-51-D-N3-4	SA	URS103_EXC-51-D-N3-4	Soil	X
EXC-52-D-N4-6	SA	URS103_EXC-52-D-N4-6	Soil	X
EXC-53-D-E1-6	SA	URS103_EXC-53-D-E1-6	Soil	X
EXC-54-D-E2-3	SA	URS103_EXC-54-D-E2-3	Soil	X
EXC-55-D-E3-6	SA	URS103_EXC-55-D-E3-6	Soil	X
EXC-56-D-E4-3	SA	URS103_EXC-56-D-E4-3	Soil	X
EXC-57-D-S1-6	SA	URS103_EXC-57-D-S1-6	Soil	X
EXC-58-D-S2-3	SA	URS103_EXC-58-D-S2-3	Soil	X
EXC-59-D-S3-6	SA	URS103_EXC-59-D-S3-6	Soil	X
EXC-60-D-S4-3	SA	URS103_EXC-60-D-S4-3	Soil	X
EXC-61-D-W1-6	SA	URS103_EXC-61-D-W1-6	Soil	X
EXC-62-D-W2-3	SA	URS103_EXC-62-D-W2-3	Soil	X
EXC-63-D-W3-6	SA	URS103_EXC-63-D-W3-6	Soil	X
EXC-64-D-W4-3	SA	URS103_EXC-64-D-W4-3	Soil	X
EXC-65-F-W-1	SA	URS103_EXC-65-F-W-1	Soil	X^m
EXC-65-F-W-1-FD	FD	URS103_EXC-65-F-W-1-FD	Soil	X
WP-68-D-F-0	SA	URS103_WP-68-D-F-0	Wipe	X^m
WP-69-D-W-4	SA	URS103_WP-69-D-W-4	Wipe	X
WP-70-D-W-5	SA	URS103_WP-70-D-W-5	Wipe	X
WP-71-D-W-5	SA	URS103_WP-71-D-W-5	Wipe	X

Sample Type: FD – Field Duplicate SA – Sample X^m - Matrix Spike/Matrix Spike Duplicate
Analyses: PCBs – Polychlorinated Biphenyls

This report contains the final results of the data review conducted for soil samples collected in September 2014 for Moline Street PCB Site Investigation and Removal Action. The sample results

were presented in one data package. The data review was conducted in accordance with the Quality Assurance Project Plan, Moline Street PCB Site Investigation and Removal Action (URS, February 2014) and evaluation of laboratory criteria, as applicable.

Full validation (recalculation and checking for transcription errors) for Method 8082A was conducted on data package URS098-Soil. In addition, summary forms for all laboratory parameters (initial calibration, continuing calibration, laboratory control samples) were reviewed for all data packages. The laboratory only reported 2nd column confirmation results for data packages URS098-Soil, URS-098-Wipe, and URS101. Per Method 8082A, 2nd column confirmation is only required when the sample composition is not well characterized.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification (noted below).
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL), have been qualified as estimated (J SQL-I). All other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by ChemSolutions in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6°C temperature range. The laboratory noted that custody seals were not present on the sample coolers. As the samples were hand-delivered to the laboratory shortly after sample collection, data qualification was not considered necessary.
Holding Times	Yes	All samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank	Yes	Target analytes were not detected within the method blank or the blank wipe.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate EXC-45-D-F1-6.5 EXC-46-D-F2-6.5 EXC-65-F-W-1 WP-68-D-F-0	No	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** The frequency of MS/MSDs met the quality assurance project plan (QAPP) requirement of one per twenty samples. The laboratory noted the spike peaks in the MS/MSDs were unable to be distinguished for samples EXC-45-D-F1-6.5, EXC-46-D-F2-6.5, EXC-65-F-W-1, and WP-68-D-F-0 due to high concentrations of aroclor 1248 and aroclor 1254; therefore, the MS/MSDs could not be evaluated. When MS/MSD issues accounted for less than 35% of the MS/MSD analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS/MSD results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required due to MS/MSD recoveries and RPDs
Laboratory Performance • Laboratory Control Sample	Yes	The laboratory control sample (LCS) recoveries met quality control criteria.

Review Parameter	Criteria Met?	Comment
Method Quality Control • Surrogates	No	With the exceptions listed in Table 1, all of the surrogate recoveries were within the laboratory specified acceptance criteria for the site samples. In some instances, these surrogate recoveries could not be calculated due to the samples being diluted (≥20X) beyond the laboratory's ability to quantitate recoveries.
Field Quality Control • Field Duplicate CON-5-C-W-0/CON-5-C-W-0-FD EXC-35-C-F-5/EXC-35-C-F-5-FD EXC-65-F-W-1/EXC-65-F-W-1-FD	No	**Field Duplicate** With the exceptions listed in Table 2, the comparison between results of the field duplicate pair met the criteria listed below. The frequency of field duplicates met the QAPP requirement of one per twenty samples. • When both the sample and duplicate values are >5x the reporting limit (RL) acceptable sampling and analytical precision is indicated by a RPD between the results of ≤50%. • Where the result for one or both analytes of the field duplicate pair is <5xRL, satisfactory precision is indicated if the absolute difference between the field duplicate results is <3.5xRL. When field duplicates issues accounted for less than 35% of the field duplicate analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the field duplicate results did not meet criteria, evaluation was extended to all associated samples. See Table 2 for overall qualification.
Reporting limits met?	Yes	No results were reported as non-detect at elevated reporting limits.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.

> - Greater Than
< - Less Than
≤ - Less Than or Equal to
% - Percent
°C – Degrees Celsius
COC – Chain of Custody
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
RL – Reporting Limit
RPDs – Relative Percent Differences

Table 1:
Surrogate Recovery Outliers and Resultant Data Qualification

Associated Sample	Surrogate	%R (Limits)	Qualification
EXC-35-C-F-5 (10x)	Decachlorobiphenyl	176 (61-150)	The associated detected PCB results were qualified as estimated (J SUR-H) to reflect the potential high bias.
EXC-63-D-W3-6 (10x)		168 (61-150)	

%R – percent recovery
J – Estimated
PCBs – Polychlorinated Biphenyls
H – High Bias
SUR – Surrogate Recovery

Table 2:
Field Duplicate Outliners and Resultant Data Qualification

Field Duplicate Pair	Analyte	Parent Result (mg/Kg)	FD Result (mg/Kg)	Criteria not Met	Qualification
EXC-35-C-F-5/ EXC-35-C-F-5-FD	Aroclor 1248	6.9	0.57	RPD >50%	As <35% of the associated soil field duplicates were outside control limits, data qualification was limited to the parent sample. The associated results were qualified as estimated (J FD-I).
	Aroclor 1254	4.1	0.22	Absolute Difference >3.5x RL	As >35% of the soil field duplicate results were outside the evaluation criteria, the aroclor 1254 results for all soil field duplicate results, with the exception of samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD, were qualified as estimated (J FD-I). As the RPD between the field duplicate results for samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD were within control limits, data qualification was not considered necessary.
EXC-65-F-W-1/ EXC-65-F-W-1-FD		4.8	19		

% - Percent
FD – Field Duplicate
RPD – Relative Percent Difference
> - Greater Than
I – Indeterminate Bias
RL – Reporting Limit
> - Less Than
J – Estimated

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: CON-5-C-W-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_CON-5-C-W-0
Sample Matrix: Concrete
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1248	0.22	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1254	0.20	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	~~J FO J~~
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	85.2	10/20/2014	Surrogate QC Limits 61-150

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: CON-5-C-W-0-FD
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_CON-5-C-W-0-FD
Sample Matrix: Concrete
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1248	6.2	4.0	0.48	mg/Kg	40	10/20/2014	10/21/2014	
Aroclor 1254	3.3	4.0	0.48	mg/Kg	40	10/20/2014	10/21/2014	
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	81.2	10/20/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	144	10/21/2014	

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: CON-6-C-E-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_CON-6-C-E-0
Sample Matrix: Concrete
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1248	0.36	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1254	0.69	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	90.0	10/20/2014	Surrogate QC Limits 61-150

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: CON-7-C-S-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_CON-7-C-S-0
Sample Matrix: Concrete
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1248	0.19	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1254	0.26	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	82.4	10/20/2014	Surrogate QC Limits 61-150

KA 12/04/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-25-C-F-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-25-C-F-4
Dry Weight Basis, % Solid=93.6
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.17	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	J FO-J
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	75.6	10/18/2014 (1x)	Surrogate QC Limits 61-150

KA 12/11/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-26-C-N-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-26-C-N-3
Dry Weight Basis, % Solid=87.6
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	2.3	0.55	0.070	mg/Kg	5	10/17/2014	10/18/2014	
Aroclor 1254	0.29	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	J FD-I
Aroclor 1260	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	88.0	10/18/2014 (1x)	Surrogate QC Limits 61-150
Decachlorobiphenyl	130	10/18/2014 (5x)	

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-27-C-E1-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-27-C-E1-2
Dry Weight Basis, % Solid=86.1
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	2500	480	56	mg/Kg	4000	10/17/2014	10/18/2014	
Aroclor 1254	1200	480	56	mg/Kg	4000	10/17/2014	10/18/2014	J FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	91.6	10/18/2014 (1x)	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/18/2014 (4000x)	

KA 12/4/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-28-C-E2-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-28-C-E2-3
Dry Weight Basis, % Solid=88.2
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.20	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	UJ FO-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	88.4	10/18/2014	Surrogate QC Limits 61-150

KA 12/4/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-29-C-E3-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-29-C-E3-3
Dry Weight Basis, % Solid=85.5
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	4500	600	70	mg/Kg	5000	10/17/2014	10/20/2014	
Aroclor 1254	2200	600	70	mg/Kg	5000	10/17/2014	10/20/2014	J FO-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	95.6	10/18/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/20/2014	

KA 12/4/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-30-C-S1-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-30-C-S1-3
Dry Weight Basis, % Solid=92.0
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.48	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.24	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	J FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	88.4	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-31-C-S2-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-31-C-S2-2
Dry Weight Basis, % Solid=82.1
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.65	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.24	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	J FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	112	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-32-C-W1-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-32-C-W1-2
Dry Weight Basis, % Solid=87.4
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.058	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	J J SOL-I
Aroclor 1254	0.051	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	J J SOL, FD-I
Aroclor 1260	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	102	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-33-C-W2-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-33-C-W2-1
Dry Weight Basis, % Solid=87.8
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.27	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.28	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	J FO-I
Aroclor 1260	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	100	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-34-C-W3-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-34-C-W3-3
Dry Weight Basis, % Solid=87.0
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.075	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	J J SQL-I
Aroclor 1254	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	UJ FO-I
Aroclor 1260	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	101	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-35-C-F-5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-35-C-F-5
Dry Weight Basis, % Solid=91.5
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	6.9	1.1	0.13	mg/Kg	10	10/17/2014	10/20/2014	J SURJ-H FD-H
Aroclor 1254	4.1	1.1	0.13	mg/Kg	10	10/17/2014	10/20/2014	J SURJ-H FD-H
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery			
Decachlorobiphenyl	102	10/18/2014	Surrogate QC Limits 61-150	
Decachlorobiphenyl	176	10/20/2014		N

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-35-C-F-5-FD
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-35-C-F-5-FD
Dry Weight Basis, % Solid=92.9
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.57	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	J FD-I
Aroclor 1254	0.22	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	J FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	98.8	10/18/2014	Surrogate QC Limits 61-150

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-36-C-N1-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-36-C-N1-4
Dry Weight Basis, % Solid=88.6
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	ND	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.021	0.11	0.014	mg/Kg	1	10/17/2014	10/18/2014	J J SOL, ED-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	112	10/18/2014	Surrogate QC Limits 61-150

KA 12/4/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-37-C-N2-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-37-C-N2-3
Dry Weight Basis, % Solid=86.3
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.13	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.13	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.13	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.13	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.30	0.13	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.16	0.13	0.014	mg/Kg	1	10/17/2014	10/18/2014	J FO-I
Aroclor 1260	ND	0.13	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.13	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.13	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	109	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-38-C-E1-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-38-C-E1-4
Dry Weight Basis, % Solid=82.3
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.68	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.66	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	J FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	118	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14

KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-39-C-E2-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-39-C-E2-3
Dry Weight Basis, % Solid=75.7
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.13	0.016	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.13	0.016	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.13	0.016	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.13	0.016	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	ND	0.13	0.016	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	ND	0.13	0.016	mg/Kg	1	10/17/2014	10/18/2014	UJ FO-I
Aroclor 1260	ND	0.13	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.13	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.13	0.015	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	121	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-40-C-E3-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-40-C-E3-3
Dry Weight Basis, % Solid=84.3
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.27	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.25	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	J FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery
Decachlorobiphenyl	108

Surrogate QC Limits 61-150

KA 12/11/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-41-C-E4-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-41-C-E4-2
Dry Weight Basis, % Solid=89.2
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	UJ FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery
Decachlorobiphenyl	107

Surrogate QC Limits 61-150

KA 12/11/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-42-C-E5-2
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-42-C-E5-2
Dry Weight Basis, % Solid=80.4
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.034	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	J J SOL-I
Aroclor 1254	0.028	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	J J SOL, ~~FD~~-I
Aroclor 1260	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery
Decachlorobiphenyl	113

Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-43-C-S-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-43-C-S-4
Dry Weight Basis, % Solid=83.2
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.39	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.20	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	J FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery
Decachlorobiphenyl	115

Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-44-C-W-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-44-C-W-4
Dry Weight Basis, % Solid=92.1
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	51	22	2.6	mg/Kg	200	10/17/2014	10/20/2014	
Aroclor 1254	22	22	2.6	mg/Kg	200	10/17/2014	10/20/2014	J FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery	
Decachlorobiphenyl	94.0	10/18/2014
Decachlorobiphenyl	Diluted Out	10/20/2014

Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-45-D-F1-6.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-45-D-F1-6.5
Dry Weight Basis, % Solid=98.0
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	64	10	1.2	mg/Kg	100	10/17/2014	10/21/2014	
Aroclor 1254	34	10	1.2	mg/Kg	100	10/17/2014	10/21/2014	3 FD-I
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	95.6	10/18/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/21/2014	

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-46-D-F2-6.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-46-D-F2-6.5
Dry Weight Basis, % Solid=97.8
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	4.5	1.0	0.12	mg/Kg	10	10/17/2014	10/20/2014	
Aroclor 1254	1.1	1.0	0.12	mg/Kg	10	10/17/2014	10/20/2014	J PD-I
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	89.6	10/18/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	136	10/20/2014	

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-47-D-F3-6.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-47-D-F3-6.5
Dry Weight Basis, % Solid=82.7
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.19	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.077	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	J J SOL, ED-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	91.2	10/18/2014	Surrogate QC Limits 61-150

KA 12/4/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-48-D-F4-6.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-48-D-F4-6.5
Dry Weight Basis, % Solid=97.9
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.042	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	J J SQL-I
Aroclor 1254	0.018	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	J J SQL, FD-I
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	92.8	10/18/2014	Surrogate QC Limits 61-150

KA 12/4/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-49-D-N1-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-49-D-N1-4
Dry Weight Basis, % Solid=82.4
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.015	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	250	60	7.5	mg/Kg	500	10/17/2014	10/21/2014	
Aroclor 1254	98	60	7.5	mg/Kg	500	10/17/2014	10/21/2014	J FD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	94.4	10/18/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/21/2014	

KA 12/4/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-50-D-N2-6
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-50-D-N2-6
Dry Weight Basis, % Solid=89.5
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	310	440	52	mg/Kg	4000	10/17/2014	10/20/2014	J J SQL-I
Aroclor 1254	79	44	5.2	mg/Kg	400	10/17/2014	10/21/2014	J FO-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery	
Decachlorobiphenyl	88.4	10/18/2014
Decachlorobiphenyl	Diluted Out	10/20/2014
Decachlorobiphenyl	Diluted Out	10/21/2014

Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-51-D-N3-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-51-D-N3-4
Dry Weight Basis, % Solid=82.9
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	20	4.8	0.56	mg/Kg	40	10/17/2014	10/20/2014	
Aroclor 1254	12	4.8	0.56	mg/Kg	40	10/17/2014	10/20/2014	J FO-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	86.0	10/18/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/20/2014	

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-52-D-N4-6
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-52-D-N4-6
Dry Weight Basis, % Solid=82.9
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	7.1	4.8	0.56	mg/Kg	40	10/17/2014	10/20/2014	
Aroclor 1254	3.4	4.8	0.56	mg/Kg	40	10/17/2014	10/20/2014	J J SOLIFD-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	89.2	10/18/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/20/2014	

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-53-D-E1-6
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-53-D-E1-6
Dry Weight Basis, % Solid=94.0
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	12	4.4	0.52	mg/Kg	40	10/17/2014	10/20/2014	
Aroclor 1254	4.5	4.4	0.52	mg/Kg	40	10/17/2014	10/20/2014	J FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	78.4	10/18/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/20/2014	

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-54-D-E2-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-54-D-E2-3
Dry Weight Basis, % Solid=85.9
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.48	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.42	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	J FO-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	97.2	10/18/2014	Surrogate QC Limits 61-150

KA 12/4/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-55-D-E3-6
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-55-D-E3-6
Dry Weight Basis, % Solid=97.5
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	5.6	1.0	0.12	mg/Kg	10	10/17/2014	10/20/2014	
Aroclor 1254	3.0	1.0	0.12	mg/Kg	10	10/17/2014	10/20/2014	J FD-1
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	76.0	10/18/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	140	10/20/2014	

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-56-D-E4-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-56-D-E4-3
Dry Weight Basis, % Solid=90.0
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	VJ FO-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	88.8	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-57-D-S1-6
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-57-D-S1-6
Dry Weight Basis, % Solid=93.1
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.69	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.27	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	J FO-1
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	80.0	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-58-D-S2-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-58-D-S2-3
Dry Weight Basis, % Solid=82.5
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	15	4.8	0.56	mg/Kg	40	10/17/2014	10/20/2014	
Aroclor 1254	6.9	4.8	0.56	mg/Kg	40	10/17/2014	10/20/2014	J PO-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	99.2	10/18/2014	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/20/2014	

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-59-D-S3-6
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-59-D-S3-6
Dry Weight Basis, % Solid=96.2
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.20	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.14	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	J FO-I
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	78.8	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-60-D-S4-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-60-D-S4-3
Dry Weight Basis, % Solid=90.0
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	0.29	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1254	0.12	0.11	0.013	mg/Kg	1	10/17/2014	10/18/2014	J FO-J
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	93.2	10/18/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/14/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-61-D-W1-6
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-61-D-W1-6
Dry Weight Basis, % Solid=96.5
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1248	27	4.0	0.48	mg/Kg	40	10/17/2014	10/20/2014	
Aroclor 1254	9.4	4.0	0.48	mg/Kg	40	10/17/2014	10/20/2014	J FD-I
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/17/2014	10/18/2014	

ND=Not detected

Surrogate	% Recovery	
Decachlorobiphenyl	90.4	10/18/2014
Decachlorobiphenyl	Dilluted Out	10/20/2014

Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-62-D-W2-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-62-D-W2-3
Dry Weight Basis, % Solid=94.6
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1248	280	440	52	mg/Kg	4000	10/17/2014	10/20/2014	
Aroclor 1254	79	44	5.2	mg/Kg	400	10/17/2014	10/21/2014	J PO-J
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/19/2014	

ND=Not detected

Surrogate	% Recovery	
Decachlorobiphenyl	114	10/19/2014
Decachlorobiphenyl	Diluted Out	10/20/2014

Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-63-D-W3-6
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-63-D-W3-6
Dry Weight Basis, % Solid=90.4
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1248	2.8	1.1	0.13	mg/Kg	10	10/17/2014	10/20/2014	J SUR-H
Aroclor 1254	0.53	0.11	0.013	mg/Kg	1	10/17/2014	10/19/2014	J FD-J
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/19/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/17/2014	10/19/2014	

ND=Not detected

Surrogate	% Recovery			
Decachlorobiphenyl	89.2	10/19/2014	Surrogate QC Limits 61-150	
Decachlorobiphenyl	168	10/20/2014		N

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-64-D-W4-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-64-D-W4-3
Dry Weight Basis, % Solid=92.3
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1248	0.11	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1254	0.047	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	J J SQL, ID-I
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	91.6	10/20/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-65-F-W-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-65-F-W-1
Dry Weight Basis, % Solid=81.9
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1248	2.6	4.0	0.48	mg/Kg	40	10/20/2014	10/20/2014	
Aroclor 1254	4.8	4.0	0.48	mg/Kg	40	10/20/2014	10/20/2014	J PO-I
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	131	10/20/14 (1x)	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/20/14 (40x)	

RA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: EXC-65-F-W-1-FD
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_EXC-65-F-W-1-FD
Dry Weight Basis, % Solid=82.1
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1248	11	4.0	0.48	mg/Kg	40	10/20/2014	10/20/2014	
Aroclor 1254	19	4.0	0.48	mg/Kg	40	10/20/2014	10/20/2014	J PO-I
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/20/2014	10/20/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	119	10/20/14 (1x)	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/20/14 (40x)	

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: WP-68-D-F-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_WP-68-D-F-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1248	7.3	2.0	0.20	ug/wipe	10	10/18/2014	10/20/2014	
Aroclor 1254	1.4	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	

ND=Not detected

Surrogate	% Recovery	
Decachlorobiphenyl	67.6	10/19/2014
Decachlorobiphenyl	136	10/20/2014

Surrogate QC Limits 50-140%

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: WP-69-D-W-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_WP-69-D-W-4
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1248	0.74	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1254	0.34	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	64.8	10/19/2014	Surrogate QC Limits 50-140%

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: WP-70-D-W-5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_WP-70-D-W-5
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1248	0.46	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1254	0.19	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	J J SOL-I
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	64.0	10/19/2014	Surrogate QC Limits 50-140%

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS103

Client Sample ID: WP-71-D-W-5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS103_WP-71-D-W-5
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 10/15/14
Date Received: 10/15/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1248	0.40	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1254	0.14	0.20	0.020	ug/wipe	1	10/18/2014	10/19/2014	J J SQL-I
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	10/18/2014	10/19/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	64.0	10/19/2014	Surrogate QC Limits 50-140%

KA 12/4/14

Moline Street PCB Site Investigation and Removal Action
Data Review Summary

Sample Delivery Group: URS105
Sampling Date: October 24, 2014
Data Reviewer: Katie Abbott Date Completed: December 11, 2014
Peer Reviewer: Sheri Fling Date Completed: December 31, 2014

The table below summarizes the data package and sample identifications discussed in this data review.

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
EXC-66-C-E1-3	SA	URS105_EXC-66-C-E1-3	Soil	X
EXC-67-C-E2-3	SA	URS105_EXC-67-C-E2-3	Soil	X
EXC-68-C-E3-3	SA	URS105_EXC-68-C-E3-3	Soil	X^m
EXC-69-D-W-4	SA	URS105_EXC-69-D-W-4	Soil	X
EXC-70-D-N-6	SA	URS105_EXC-70-D-N-6	Soil	X
EXC-71-F-W-1	SA	URS105_EXC-71-F-W-1	Soil	X
WP-72-B-N-0	SA	URS105_WP-72-B-N-0	Wipe	X
WP-73-H-SE-0	SA	URS105_WP-73-H-SE-0	Wipe	X

Sample Type: SA – Sample X^m - Matrix Spike/Matrix Spike Duplicate
Analyses: PCBs – Polychlorinated Biphenyls

This report contains the final results of the data review conducted for soil samples collected in September 2014 for Moline Street PCB Site Investigation and Removal Action. The sample results were presented in one data package. The data review was conducted in accordance with the Quality Assurance Project Plan, Moline Street PCB Site Investigation and Removal Action (URS, February 2014) and evaluation of laboratory criteria, as applicable.

Full validation (recalculation and checking for transcription errors) for Method 8082A was conducted on data package URS098-Soil. In addition, summary forms for all laboratory parameters (initial calibration, continuing calibration, laboratory control samples) were reviewed for all data packages. The laboratory only reported 2nd column confirmation results for data packages URS098-Soil, URS-098-Wipe, and URS101. Per Method 8082A, 2nd column confirmation is only required when the sample composition is not well characterized.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification (noted below).
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL), have been qualified as estimated (J SQL-I). All other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by ChemSolutions in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6°C temperature range. The laboratory noted that custody seals were not present on the sample coolers. As the samples were hand-delivered to the laboratory shortly after sample collection, data qualification was not considered necessary.
Holding Times	Yes	All samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank	Yes	Target analytes were not detected within the method blank or the blank wipe.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate EXC-68-C-E3-3	Yes	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** The MS/MSD recoveries and relative percent differences (RPDs) met quality control criteria. Per Method 8082A, MS/MSD samples are only spiked with aroclors 1016 and 1260. The frequency of MS/MSDs met the quality assurance project plan (QAPP) requirement of one per twenty samples. When MS/MSD issues accounted for less than 35% of the MS/MSD analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS/MSD results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required due to MS/MSD recoveries and RPDs.
Laboratory Performance • Laboratory Control Sample	Yes	The laboratory control sample (LCS) recoveries met quality control criteria. Per Method 8082A, aroclors 1016 and 1260 are spiked for the LCS, indicating acceptable accuracy with respect to the analytical method.
Method Quality Control • Surrogates	Yes	All of the surrogate recoveries were within the laboratory specified acceptance criteria for the site samples. In some instances, the surrogate recoveries could not be calculated due to the samples being diluted (≥20X) beyond the laboratory's ability to quantitate recoveries.
Field Quality Control • Field Duplicate None	No	**Field Duplicate** A field duplicate was not submitted with the samples in this data package. The frequency of field duplicates met the QAPP requirement of one per twenty samples. When field duplicates issues accounted for less than 35% of the field duplicate analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the field duplicate results did not meet criteria, evaluation was extended to all associated samples. As >35% of the soil field duplicate results were outside the applicable evaluation criterion, the aroclor 1254 results for all soil field duplicate results, with the exception of samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD, were qualified as estimated (J FD-I).

Review Parameter	Criteria Met?	Comment
		As the RPD between the field duplicate results for samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD were within control limits, data qualification was not considered necessary.
Reporting limits met?	Yes	No results were reported as non-detect at elevated reporting limits.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.

> - Greater Than
< - Less Than
≤ - Less Than or Equal to
% - Percent
°C – Degrees Celsius
COC – Chain of Custody
FD – Field Duplicate
I – Indeterminate Bias
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
QAPP – Quality Assurance Project Plan
RL – Reporting Limit
RPDs – Relative Percent Differences
UJ/J – Estimated

ChemSolutions LLC
Sample Results
Project ID: URS105

Client Sample ID: EXC-66-C-E1-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS105_EXC-66-C-E1-3
Dry Weight Basis, % Solid=87.8
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/24/14
Date Received: 10/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1248	0.21	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1254	0.091	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	J J SQL, FD-J
Aroclor 1260	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1262	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1268	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	99.2	10/25/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS105

Client Sample ID: EXC-67-C-E2-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS105_EXC-67-C-E2-3
Dry Weight Basis, % Solid=88.5
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/24/14
Date Received: 10/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1248	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1254	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	UJ FO-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/24/2014	10/25/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	93.6	10/25/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS105

Client Sample ID: EXC-68-C-E3-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS105_EXC-68-C-E3-3
Dry Weight Basis, % Solid=92.5
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/24/14
Date Received: 10/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1248	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1254	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	UJ FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/24/2014	10/25/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	91.6	10/25/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS105

Client Sample ID: EXC-69-D-W-4
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS105_EXC-69-D-W-4
Dry Weight Basis, % Solid=89.5
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/24/14
Date Received: 10/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1248	170	55	6.5	mg/Kg	500	10/24/2014	10/25/2014	
Aroclor 1254	62	55	6.5	mg/Kg	500	10/24/2014	10/25/2014	J FD-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/24/2014	10/25/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	104	10/25/2014 (1x)	Surrogate QC Limits 61-150
Decachlorobiphenyl	Diluted Out	10/25/2014 (500x)	

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS105

Client Sample ID: EXC-70-D-N-6
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS105_EXC-70-D-N-6
Dry Weight Basis, % Solid=87.6
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/24/14
Date Received: 10/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1221	ND	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1232	ND	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1242	ND	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1248	2.0	0.55	0.070	mg/Kg	5	10/24/2014	10/25/2014	
Aroclor 1254	0.56	0.11	0.014	mg/Kg	1	10/24/2014	10/25/2014	J FO-I
Aroclor 1260	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1262	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1268	ND	0.11	0.013	mg/Kg	1	10/24/2014	10/25/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	79.6	10/25/2014 (1x)	Surrogate QC Limits 61-150
Decachlorobiphenyl	92.0	10/25/2014 (5x)	

KA 12/11/14
KA 12/11/14

ChemSolutions LLC
Sample Results
Project ID: URS105

Client Sample ID: EXC-71-F-W-1
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS105_EXC-71-F-W-1
Dry Weight Basis, % Solid=84.4
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/24/14
Date Received: 10/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.12	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1221	ND	0.12	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1232	ND	0.12	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1242	ND	0.12	0.014	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1248	9.3	2.4	0.28	mg/Kg	20	10/24/2014	10/25/2014	
Aroclor 1254	10	2.4	0.28	mg/Kg	20	10/24/2014	10/25/2014	J FO-I
Aroclor 1260	ND	0.12	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1262	ND	0.12	0.013	mg/Kg	1	10/24/2014	10/25/2014	
Aroclor 1268	ND	0.12	0.013	mg/Kg	1	10/24/2014	10/25/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	94.0	10/25/2014 (1x)	Surrogate QC Limits 61-150
Decachlorobiphenyl	80.0	10/25/2014 (20x)	

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS105

Client Sample ID: WP-72-B-N-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS105_WP-72-B-N-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 10/24/14
Date Received: 10/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1248	0.36	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1254	0.15	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	J J SQL-I
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	10/24/2014	10/25/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	57.6	10/25/2014	Surrogate QC Limits 50-140%

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS105

Client Sample ID: WP-73-H-SE-0
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS105_WP-73-H-SE-0
Sample Matrix: Wipe
EPA Method 8082A

Date Sampled: 10/24/14
Date Received: 10/24/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1221	ND	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1232	ND	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1242	ND	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1248	0.70	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1254	0.61	0.20	0.020	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1260	ND	0.20	0.017	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1262	ND	0.20	0.017	ug/wipe	1	10/24/2014	10/25/2014	
Aroclor 1268	ND	0.20	0.017	ug/wipe	1	10/24/2014	10/25/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	57.2	10/25/2014	Surrogate QC Limits 50-140%

KA 12/11/14

Moline Street PCB Site Investigation and Removal Action
Data Review Summary

Sample Delivery Group: URS106
Sampling Date: October 27, 2014
Data Reviewer: Katie Abbott Date Completed: December 11, 2014
Peer Reviewer: Sheri Fling Date Completed: December 31, 2014

The table below summarizes the data package and sample identifications discussed in this data review.

Sample Identification	Sample Type	Laboratory Identification	Sample Matrix	PCBs (Method 8082A)
EXC-72-D-F-5	SA	URS106_EXC-72-D-F-5	Soil	X^m
EXC-73-D-N-4.5	SA	URS106_EXC-73-D-N-4.5	Soil	X
EXC-74-D-W-3	SA	URS106_EXC-74-D-W-3	Soil	X

Sample Type: SA – Sample X^m - Matrix Spike/Matrix Spike Duplicate
Analyses: PCBs – Polychlorinated Biphenyls

This report contains the final results of the data review conducted for soil samples collected in September 2014 for Moline Street PCB Site Investigation and Removal Action. The sample results were presented in one data package. The data review was conducted in accordance with the Quality Assurance Project Plan, Moline Street PCB Site Investigation and Removal Action (URS, February 2014) and evaluation of laboratory criteria, as applicable.

Full validation (recalculation and checking for transcription errors) for Method 8082A was conducted on data package URS098-Soil. In addition, summary forms for all laboratory parameters (initial calibration, continuing calibration, laboratory control samples) were reviewed for all data packages. The laboratory only reported 2nd column confirmation results for data packages URS098-Soil, URS-098-Wipe, and URS101. Per Method 8082A, 2nd column confirmation is only required when the sample composition is not well characterized.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification (noted below).
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL), have been qualified as estimated (J SQL-I). All other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by ChemSolutions in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6°C temperature range. The laboratory noted that custody seals were not present on the sample coolers. As the samples were hand-delivered to the laboratory shortly after sample collection, data qualification was not considered necessary.
Holding Times	Yes	All samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank	Yes	Target analytes were not detected within the method blank or the blank wipe.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate EXC-72-D-F-5	Yes	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** The laboratory noted there were interferences present for quantitation aroclor 1016 of the spiked 1016 peak. The aroclor 1248 peaks caused interferences and therefore the MS/MSD was quantified using the #1 aroclor 1016 peak that contained no interference. The MS/MSD recoveries and relative percent differences (RPDs) met quality control criteria. Per Method 8082A, MS/MSD samples are only spiked with aroclors 1016 and 1260. The frequency of MS/MSDs met the quality assurance project plan (QAPP) requirement of one per twenty samples. When MS/MSD issues accounted for less than 35% of the MS/MSD analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS/MSD results did not meet criteria, evaluation was extended to all associated samples. No overall qualifiers were required due to MS/MSD recoveries and RPDs.
Laboratory Performance • Laboratory Control Sample	Yes	The laboratory control sample (LCS) recoveries met quality control criteria. Per Method 8082A, aroclors 1016 and 1260 are spiked for the LCS, indicating acceptable accuracy with respect to the analytical method.
Method Quality Control • Surrogates	Yes	All of the surrogate recoveries were within the laboratory specified acceptance criteria for the site samples.
Field Quality Control • Field Duplicate None	No	**Field Duplicate** A field duplicate was not submitted with the samples in this data package. The frequency of field duplicates met the QAPP requirement of one per twenty samples. When field duplicates issues accounted for less than 35% of the field duplicate analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the field duplicate results did not meet criteria, evaluation was extended to all associated samples. As >35% of the soil field duplicate results were outside the applicable evaluation criterion, the aroclor 1254 results for all soil field duplicate results, with the exception of samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD, were qualified as estimated (J FD-I).

Review Parameter	Criteria Met?	Comment
		As the RPD between the field duplicate results for samples EXC-6-B-F-3, EXC-6-B-F-3-FD, EXC-16-B-F-4, and EXC-16-B-F-4-FD were within control limits, data qualification was not considered necessary.
Reporting limits met?	Yes	No results were reported as non-detect at elevated reporting limits.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.

> - Greater Than
< - Less Than
≤ - Less Than or Equal to
% - Percent
°C – Degrees Celsius
COC – Chain of Custody
FD – Field Duplicate
I – Indeterminate Bias
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
QAPP – Quality Assurance Project Plan
RL – Reporting Limit
RPDs – Relative Percent Differences
UJ/J – Estimated

ChemSolutions LLC
Sample Results
Project ID: URS106

Client Sample ID: EXC-72-D-F-5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS106_EXC-72-D-F-5
Dry Weight Basis, % Solid=96.9
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/27/14
Date Received: 10/27/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.10	0.012	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1221	ND	0.10	0.012	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1232	ND	0.10	0.012	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1242	ND	0.10	0.012	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1248	1.7	1.0	0.120	mg/Kg	10	10/27/2014	10/27/2014	
Aroclor 1254	0.34	0.10	0.012	mg/Kg	1	10/27/2014	10/27/2014	J FD-1
Aroclor 1260	ND	0.10	0.011	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1262	ND	0.10	0.011	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1268	ND	0.10	0.011	mg/Kg	1	10/27/2014	10/27/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	68.4	10/27/2014 (1x)	Surrogate QC Limits 61-150
Decachlorobiphenyl	88.0	10/27/2014 (10x)	

KA 12/11/14
KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS106

Client Sample ID: EXC-73-D-N-4.5
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS106_EXC-73-D-N-4.5
Dry Weight Basis, % Solid=91.2
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/27/14
Date Received: 10/27/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1248	0.34	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1254	ND	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	VJ FO-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/27/2014	10/27/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	70.8	10/27/2014	Surrogate QC Limits 61-150

KA 12/4/14

KA 12/4/14

ChemSolutions LLC
Sample Results
Project ID: URS106

Client Sample ID: EXC-74-D-W-3
Client Project ID: 41569671 Moline St. PCB Site
Lab ID: URS106_EXC-74-D-W-3
Dry Weight Basis, % Solid=94.6
Sample Matrix: Soil
EPA Method 8082A

Date Sampled: 10/27/14
Date Received: 10/27/14

ANALYTE	Concentration	Reporting Limit	SMDL	Units	Dilution Factor	Date Extracted	Date Analyzed	Qualifier
Aroclor 1016	ND	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1221	ND	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1232	ND	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1242	ND	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1248	0.35	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1254	ND	0.11	0.013	mg/Kg	1	10/27/2014	10/27/2014	UJ FO-I
Aroclor 1260	ND	0.11	0.012	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1262	ND	0.11	0.012	mg/Kg	1	10/27/2014	10/27/2014	
Aroclor 1268	ND	0.11	0.012	mg/Kg	1	10/27/2014	10/27/2014	

ND=Not detected

Surrogate	% Recovery		
Decachlorobiphenyl	78.8	10/27/2014	Surrogate QC Limits 61-150

KA 12/11/14
KA 12/4/14

URS

August 19, 2014

Mr. Scott Anderson
Director for Division of Solid and Hazardous Waste
Utah Department of Environmental Quality
P.O. Box 144880
Salt Lake City, UT 84114-4880

Subject: **Notification of Waste Shipment**
Moline Street PCB Site, Aurora, Colorado

Reference: Administrative Settlement Agreement and Order on Consent for Removal Action, CERCLA Docket No. 08-2014-0002

Dear Mr. Anderson:

This written notification of waste shipment for the Moline Street PCB Site (Site) (EPA ID COD030446637) was prepared by URS Corporation (URS) on behalf of The Dow Chemical Company (TDCC). The notification is required by Section VIII Paragraph 28a(1) of the Administrative Settlement Agreement and Order on Consent for Removal Action (AOC) that became effective on January 30, 2014.

A removal action is being conducted in a former hydraulic press area and the majority of waste material will consist of concrete and soil contaminated with PCB oil. There will also be solid waste consisting of building debris, miscellaneous sampling equipment, and person protective equipment (PPE). Liquid waste will be decontamination water, collected stormwater (if necessary), and water pumped out of the excavation (if necessary). Waste material is expected to be shipped from late August 2014 through September 2014. The solid waste will be shipped by roll-off box to:

Clean Harbors Grassy Mountain Landfill Facility located approximately 3 miles east and 7 miles north of Knolls at Exit 41 off I-80 in Grantsville, Utah (zip code of 84029) with an EPA ID number of UTD991301748.

The liquid waste will be shipped by tote to:

Clean Harbors Aragonite Incineration Facility located at 11600 North Aptus Road, Dugway, Utah (zip code of 84022) with an EPA ID number of UTD981552177.

Approximate quantities of the waste material are shown in the following table:

	Waste Type	Approximate Quantity
Solid	Concrete contaminated with PCB oil	490 tons
	Soil contaminated with PCB oil	260 tons
	Building debris, disposal sampling equipment, PPE (e.g. Tyvek, nitrite gloves	60 tons
Liquid	Water (decontamination water, collected stormwater, water pumped out of excavation)	40 gallons

URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
Tel: 303.694.2770
Fax: 303.694.3946

URS

Waste profiles are available upon request. If you have questions regarding the waste disposal associated with the Site, please contact me at 303-796-4672, Sarah Lave at 303-740-2680, or Tom Gieck at 970-256-8889.

Sincerely,

Karen M Maestas

Karen M. Maestas, P.E.
Project Manager

Sincerely,

Sarah Lave

Sarah Lave
Deputy Project Manager

cc: Tom Gieck, Remediation Leader, TDCC Representative
Ms. Joyel Dhieux, EPA On-Scene Coordinator
Project File

CleanHarbors®
ENVIRONMENTAL SERVICES, INC.

Notice of Waste Acceptability

Clean Harbors Grassy Mountain, LLC.

Prepared:	Friday, September 05, 2014
Waste Name:	Soil contaminated with PCB Oil
Profile ID:	CH807319B
Generator:	Dow Chemical Company

Thank you for selecting Clean Harbors Grassy Mountain for your waste management requirements. Your waste stream has been reviewed and is acceptable for management at our facility based on the information provided on the profile sheet identified above, and the conditions listed below. Our facility has the appropriate permits for, and will accept this waste. The Profile ID must be listed on all shipping documents and correspondence. Please retain these documents for your records and future reference.

To schedule a shipment, or should you have any questions, please contact Grassy Mountain Customer Service at 1-435-884-8900.

This waste is acceptable for delivery on **Thursday, June 19, 2014**

The waste will expire on **Friday, June 19, 2015**

An annual certification and review of this waste stream will be required for continued acceptability.

Shipping Requirements: If the waste is shipped in drums, the Profile ID must be clearly marked on the top of every container.

Clean Harbors Grassy Mountain, LLC
P.O. Box 22750 * Salt Lake City * Utah * 84122
Office - (435) 884-8900 * Fax - (435) 884-8739

Notice of Waste Acceptability

Clean Harbors Grassy Mountain, LLC.

Prepared:	Wednesday, September 03, 2014
Waste Name:	Debris contaminated with PCB Oil
Profile ID:	CH807325B
Generator:	Dow Chemical Company

Thank you for selecting Clean Harbors Grassy Mountain for your waste management requirements. Your waste stream has been reviewed and is acceptable for management at our facility based on the information provided on the profile sheet identified above, and the conditions listed below. Our facility has the appropriate permits for, and will accept this waste. The Profile ID must be listed on all shipping documents and correspondence. Please retain these documents for your records and future reference.

To schedule a shipment, or should you have any questions, please contact Grassy Mountain Customer Service at 1-435-884-8900.

This waste is acceptable for delivery on **Thursday, June 19, 2014**

The waste will expire on **Friday, June 19, 2015**

An annual certification and review of this waste stream will be required for continued acceptability.

Shipping Requirements: If the waste is shipped in drums, the Profile ID must be clearly marked on the top of every container.

Clean Harbors Grassy Mountain, LLC
P.O. Box 22750 * Salt Lake City * Utah * 84122
Office - (435) 884-8900 * Fax - (435) 884-8739

Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville UT, 84029
UTD991301748
(435) 884-8900

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Dow Chemical Company	Sales Order#:	1401533075
Generator Address:	3555 Moline Street Aurora, CO, 80010	Date Received:	10/13/2014
Generator Contact Name:			

Generator EPA ID:	COD030446637	Load #:	14011521
		Manifest #:	007020525FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
41072152	8/18/2014	CM	41072152 /	PCB Solids For Landfill	10/13/2014	Landfill	Grassy Mountain, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Shane B. Whitney
Authorized Agent

Tuesday, October 14, 2014
Date

0540420

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) A7 1401533075-001 SC PPW 8/10/2014 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
COD030446637	1	(800) 483-3718	007020525 FLE

GENERATOR

5. Generator's Name and Mailing Address
Dow Chemical Company
3555 Moline Street
Aurora, CO 80010
Generator's Phone: (970) 256-9889

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Action Resources — U.S. EPA ID Number: ALR 000007273

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville, UT 84029
Facility's Phone: (435) 884-8900
U.S. EPA ID Number: UTD991301748

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, PG III	1	CM	EST 11,340	KG	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. CH807319B ERG#171 BOX 24413
OSD 8-18-2014 TRK # 1157 (Action)

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bob Cover — Signature: on behalf of Bob Cover — Month 10 Day 10 Year 2014

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: George Purnsley — Signature: [signature] — Month 10 Day 10 Year 14
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a 20140115 21
Printed/Typed Name: Ellene DeZeeuw — Signature: [signature] — Month 10 Day 13 Year 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO GENERATOR**

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

CleanHarbors
ENVIRONMENTAL SERVICES®

GM

LOAD SUMMARY RECORD

7:59 10 13 14
69780 lb GROSS
0 lb TARE
69780 lb NET

LOAD DISPOSAL DESTINATION

STABILIZATION	RCRA CELL	TSCA CELL B6	SPOT STABILIZATION
☐	☐	☒	☐

LOAD TRACKING INFORMATION

PLANT RECEIVED	DROPPED	FINAL CODE	REVIEWED	WEIGHTS	GRIDS	MANIFEST MAILED
		2C.				

CD

DATE: 10-13-14	LOAD NO.: 2014011521
GENERATOR: DOW	HAULER: Action
ORDER NO.: 1401533075	DRUM NO.: 41072152
TRUCK NO.: 1157	CONTAINER NO. (s)/ RAILCAR NO.: CHRT 24413
CONTAINER TYPE: ED (G) TT FB V OTHER	LOAD COUNT (RAIL ONLY): 1 2 3 4
OPERATOR SIGNATURE	COUNT / DATE

13/Oct/2014	09:57:15
GROSS lbs.	69780
TARE lbs.	44200
NET lbs.	25580

LOAD WASHOUT INFORMATION

WASHOUT: (YES) NO	TYPE: INTERIOR (EXTERIOR)
WASHOUT SIGNATURE	DATE: 10-13-14
DRIVER SIGNATURE	DATE

WASHOUT STAMP

ITEM	COMMENTS	NAME	DATE

Clean Harbors Grassy Mountain Facility, Tooele County, Utah

WHITE - Facility CANARY - Generator PINK - Transporter GREEN - Receiving GOLD - Operations

CHI 206

Clean Harbors Grassy Mountain LLC
PO Box 22750
Salt Lake City UT, 84122
UTD991301748
(435) 884-8900

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Dow Chemical Company	Sales Order#:	1401533075
Generator Address:	3555 Moline Street Aurora, CO, 80010	Date Received:	10/17/2014
Generator Contact Name:			

Generator EPA ID:	COD030446637	Load #:	14011768
		Manifest #:	007020526FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
41166081	8/18/2014	CM	41166081 /	PCB Solids For Landfill	10/17/2014	Landfill	Grassy Mountain, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Shane B. Whitney
Authorized Agent

Monday, October 20, 2014
Date

A7 1401533075-001 SC PPW 8/10/2014

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: COD003046637
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 007020526 FLE

5. Generator's Name and Mailing Address
Dow Chemical Company
3555 Moline Street
Aurora, CO 80010
(970) 256-8889
Generator's Phone:

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: ~~Clean Harbors Environmental Services~~ Action Resources
U.S. EPA ID Number: ALR000007273 ~~MA A393822550~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville, UT 84029
Facility's Phone: (435) 884-8900
U.S. EPA ID Number: UTD991301748

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, PG III	1	CM	est 11,340	KG	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. CH807319B ERG#171 BOX HI20004
QSD 8-18-2014 TTN # 1159

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BOB COWER
Signature: on Behalf of Bob Cower
Month 10 Day 16 Year 2014

GENERATOR

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JAMES A. ROWLI
Signature:
Month 10 Day 16 Year 2014
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to use GM Weight of 9018 KG Per Signature KG 10-17-14
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jacqui Hadlow
Signature: Jacqui Hadlow
Month 10 Day 17 Year 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Clean Harbors
ENVIRONMENTAL SERVICES®

GM

LOAD SUMMARY RECORD

LOAD DISPOSAL DESTINATION

☐ STABILIZATION	☐ RCRA CELL ____	☒ TSCA CELL B6	☐ SPOT STABILIZATION

LOAD TRACKING INFORMATION

PLANT RECEIVED	DROPPED	FINAL CODE	REVIEWED	WEIGHTS	GRIDS	MANIFEST MAILED
				KG		

8:34 10 17 14
62480 lb GROSS
0 lb TARE
62480 lb NET

DATE	LOAD NO.
10/17/14	201401176 8

GENERATOR	HAULER
Dow	Action

ORDER NO.	DRUM NO.
140153307 5	41146081

TRUCK NO.	CONTAINER NO. (s)/ RAILCAR NO.
1159	CHHP20004

17/Oct/2014 10:37:44
GROSS lbs. 62480
TARE lbs. 42420
NET lbs. 20060
9098kg

CONTAINER TYPE:	LOAD COUNT (RAIL ONLY):
ED (G) TT FB V OTHER	1 2 3 4

OPERATOR SIGNATURE	COUNT	DATE

LOAD WASHOUT INFORMATION

WASHOUT:	TYPE:
(YES) NO	INTERIOR (EXTERIOR)

WASHOUT SIGNATURE	DATE
[illegible]	10-17-14

DRIVER SIGNATURE	DATE

WASHOUT STAMP

ITEM	COMMENTS	NAME	DATE
	Wt Discrepancy		
	Resolved		

Clean Harbors Grassy Mountain Facility, Tooele County, Utah

S

WHITE - Facility CANARY - Generator PINK - Transporter GREEN - Receiving GOLD - Operations

CHI 208

Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville UT, 84029
UTD991301748
(435) 884-8900

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Dow Chemical Company	Sales Order#:	1401533075
Generator Address:	3555 Moline Street Aurora, CO, 80010	Date Received:	10/16/2014
Generator Contact Name:			

Generator EPA ID:	COD030446637	Load #:	14011732
		Manifest #:	007020527FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
41143731	8/18/2014	CM	41143731 /	PCB Solids For Landfill	10/16/2014	Landfill	Grassy Mountain, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Shane B. Whitney
Authorized Agent

Friday, October 17, 2014
Date

A71401533075-001 SC PPW 8/10/2014

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: COD030446637
2. Page 1 of: 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 007020527 FLE

GENERATOR

5. Generator's Name and Mailing Address
Dow Chemical Company
3555 Moline Street
Aurora, CO 80010
Generator's Phone: (970) 256-8889

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors Env Svcs
U.S. EPA ID Number: MAD 039322250

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville, UT 84029
Facility's Phone: (435) 884-8900
U.S. EPA ID Number: UTD991301748

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, PG III	1	CM	est 11,340	KG	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH807319B ERG#171 BOX # 251457
OSD 8-18-2014 TRK 1627

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bob Cover
Signature: ON BEHALF OF Bob Cover
Month 10 Day 13 Year 2014

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Gary McKissick
Signature:
Month 10 Day 13 Year 14
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to use GM weights of 20280 lbs (9200 Kg) per Sarah Lane.
KW 10/16/14
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Keith Fawcells
Signature: Keith Fawcells
Month 10 Day 16 Year 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

CleanHarbors
ENVIRONMENTAL SERVICES®

GM

LOAD SUMMARY RECORD

10:05 10 16 14
61760 lb GROSS
0 lb TARE
61760 lb NET

16/Oct/2014 11:35:13
GROSS lbs. 61760
TARE lbs. 41480
NET lbs. 20280

LOAD DISPOSAL DESTINATION

☐ STABILIZATION	☐ RCRA CELL ____	☒ TSCA CELL B6	☐ SPOT STABILIZATION

LOAD TRACKING INFORMATION

PLANT RECEIVED	DROPPED	FINAL CODE	REVIEWED	WEIGHTS	GRIDS	MANIFEST MAILED
						10/16

DATE	LOAD NO.
10-16-14	204011732

GENERATOR	HAULER
DOW	CH

ORDER NO.	DRUM NO.
1401533075	41143731

TRUCK NO.	CONTAINER NO. (s)/ RAILCAR NO.
1627	251457

CONTAINER TYPE:	LOAD COUNT (RAIL ONLY):
ED (G) TT FB V OTHER	1 2 3 4

OPERATOR SIGNATURE	COUNT	DATE

LOAD WASHOUT INFORMATION

WASHOUT:	TYPE:
~~YES~~ NO	INTERIOR ~~EXTERIOR~~

WASHOUT SIGNATURE	DATE
[illegible]	10-16-14

DRIVER SIGNATURE	DATE

WASHOUT STAMP

ITEM	COMMENTS	NAME	DATE
	Weight discrepancy - Resolved		9200 Kg

Clean Harbors Grassy Mountain Facility, Tooele County, Utah

S

WHITE - Facility CANARY - Generator PINK - Transporter GREEN - Receiving GOLD - Operations

CHI 208

Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville UT, 84029
UTD991301748
(435) 884-8900

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Dow Chemical Company	Sales Order#:	1401533075
Generator Address:	3555 Moline Street Aurora, CO, 80010	Date Received:	10/8/2014
Generator Contact Name:			

Generator EPA ID:	COD030446637	Load #:	14011384
		Manifest #:	007020528FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
41007153	8/18/2014	CM	41007153 /	PCB Solids For Landfill	10/8/2014	Landfill	Grassy Mountain, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Shane B. Whitney
Authorized Agent

Thursday, October 09, 2014
Date

A7 1401533075-001 SC PPW 8/10/2014

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: COD030446637
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 007020528 FLE

5. Generator's Name and Mailing Address
Dow Chemical Company
3555 Moline Street
Aurora, CO 80010
(970) 266-8889
Generator's Phone:

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors SLPS INC
U.S. EPA ID Number: MAD 039322750

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville, UT 84029
Facility's Phone: (435) 884-8900
U.S. EPA ID Number: UTD991301748

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, PG III	1	CM	est 15,340	KG	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH807319B ERG#171 BOX 251205
OSD 8-18-2014 TRK 1600

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bob Conner
Signature: "On Behalf of" Bob Conner
Month 10 Day 7 Year 2014

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeff Hardy - Bother
Signature:
Month 10 Day 7 Year 2014
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to use GM weights of 18,300 lbs (8301 kg) per Sarah Lave
KED 10/8/14
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
2014011384
Printed/Typed Name: Ellene DeZeeuw
Signature: Ellene DeZeeuw
Month 10 Day 08 Year 14

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Clean Harbors
ENVIRONMENTAL SERVICES®

GM

LOAD SUMMARY RECORD

13:38 10 08 14
61880 lb GROSS
0 lb TARE
61880 lb NET

LOAD DISPOSAL DESTINATION

☐ STABILIZATION	☐ RCRA CELL ____	☒ TSCA CELL B6	☐ SPOT STABILIZATION

LOAD TRACKING INFORMATION

PLANT RECEIVED	DROPPED	FINAL CODE	REVIEWED	WEIGHTS	GRIDS	MANIFEST MAILED
		2C		✓	✓	10/8

CD 08/Oct/2014 15:13:54
GROSS lbs. 61880
TARE lbs. 43580
NET lbs. 18300

DATE	LOAD NO.
10/8/14	2014011384

GENERATOR	HAULER
DOW	CH

ORDER NO.	DRUM NO.
1401533075	41007153

TRUCK NO.	CONTAINER NO. (s)/ RAILCAR NO.
1600	251205

CONTAINER TYPE:	LOAD COUNT (RAIL ONLY):
ED (G) TT FB V OTHER	1 2 3 4

OPERATOR SIGNATURE	COUNT	DATE

LOAD WASHOUT INFORMATION

WASHOUT:	TYPE:
(YES) NO	INTERIOR (EXTERIOR)

WASHOUT SIGNATURE	DATE
[signature]	10-8-14

DRIVER SIGNATURE	DATE

WASHOUT STAMP

WHEEL WASH
OCT 8 2014
GRASSY MOUNTAIN FACILITY

ITEM	COMMENTS	NAME	DATE
	Weight discrepancy - Resolved		8301 KG

Clean Harbors Grassy Mountain Facility, Tooele County, Utah

WHITE - Facility CANARY - Generator PINK - Transporter GREEN - Receiving GOLD - Operations

CHI 208

Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville UT, 84029
UTD991301748
(435) 884-8900

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Dow Chemical Company	Sales Order#:	1401533075
Generator Address:	3555 Moline Street Aurora, CO, 80010	Date Received:	10/7/2014
Generator Contact Name:			

Generator EPA ID:	COD030446637	Load #:	14011335
		Manifest #:	007020529FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
40988838	8/18/2014	CM	40988838 /	PCB Solids For Landfill	10/7/2014	Landfill	Grassy Mountain, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Shane B. Whitney
Authorized Agent

Thursday, October 09, 2014
Date

A71401533075-001 SC PPW 8/10/2014

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: COD030446637
2. Page 1 of: 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 007020529 FLE

5. Generator's Name and Mailing Address
Dow Chemical Company
3555 Moline Street
Aurora, CO 80010
Generator's Phone: (970) 256-8899

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors SVCS — U.S. EPA ID Number: MAD 039322250

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville, UT 84029
Facility's Phone: (435) 884-8900
U.S. EPA ID Number: UTD991301748

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, PG III	1	CM	est 11,340	KG	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH8073198 ERG#171 Box 20218
OSD 8-18-2014 Trk 1480

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bob Cover — Signature: "On Behalf of" B Cover — Month 10 Day 6 Year 2014

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: GERALD ELY — Signature: [signature] — Month 10 Day 6 Year 2014
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to use GM weights of 21,420 lbs (9714 kg) per Sarah Lave. 10/8/14
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4. 201401335

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: F. Keith Burnett — Signature: F. Keith Burnett — Month 10 Day 7 Year 14

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Clean Harbors
ENVIRONMENTAL SERVICES®

GM

LOAD SUMMARY RECORD

LOAD DISPOSAL DESTINATION

☐ STABILIZATION	☐ RCRA CELL_____	☒ TSCA CELL B6	☐ SPOT STABILIZATION

16:14 10 07 14
60240 lb GROSS
0 lb TARE
60240 lb NET

LOAD TRACKING INFORMATION

PLANT RECEIVED	DROPPED	FINAL CODE	REVIEWED	WEIGHTS	GRIDS	MANIFEST MAILED
		ZC.		KG	ew	10/1 CD

DATE	LOAD NO.
10/7/14.	2014011335

GENERATOR	HAULER
DOW	CH

ORDER NO.	DRUM NO.
1401533075	40988838

TRUCK NO.	CONTAINER NO. (s)/ RAILCAR NO.
1480	CHRT 20218

CONTAINER TYPE:	LOAD COUNT (RAIL ONLY):
ED (G) TT FB V OTHER	1 2 3 4

OPERATOR SIGNATURE	COUNT	DATE

07/Oct/2014 17:09:15
GROSS lbs. 60240
TARE lbs. 38820
NET lbs. 21420
9714 kg

LOAD WASHOUT INFORMATION

WASHOUT:	TYPE:
(YES) NO	INTERIOR (EXTERIOR)

WASHOUT SIGNATURE	DATE
ew per MH	10/7/14

DRIVER SIGNATURE	DATE

WASHOUT STAMP

ITEM	COMMENTS	NAME	DATE
	Weight Discrepancy		
	Resolved		

Clean Harbors Grassy Mountain Facility, Tooele County, Utah

WHITE - Facility CANARY - Generator PINK - Transporter GREEN - Receiving GOLD - Operations

CHI 208

Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville UT, 84029
UTD991301748
(435) 884-8900

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Dow Chemical Company	Sales Order#:	1401533075
Generator Address:	3555 Moline Street Aurora, CO, 80010	Date Received:	10/21/2014
Generator Contact Name:			

Generator EPA ID:	COD030446637	Load #:	14011891
		Manifest #:	007020530FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
41222355	8/18/2014	CM	41222355 /	PCB Solids For Landfill	10/21/2014	Landfill	Grassy Mountain, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Shane B. Whitney
Authorized Agent

Wednesday, October 22, 2014
Date

A71401533075-001 SC PPW 8/10/2014

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: COD030446637
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3719
4. Manifest Tracking Number: 007020530 FLE

GENERATOR

5. Generator's Name and Mailing Address
Dow Chemical Company
3555 Moline Street
Aurora, CO 80010
(970) 256-8889
Generator's Phone:

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors Sirs Inc — U.S. EPA ID Number: MAD 093 222 50

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville, UT 84029
Facility's Phone: (435) 884-8900
U.S. EPA ID Number: UTD991301748

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, PG III	1	CM	est 11,340	KG	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 CH807319B ERG#171 Box HP20446
OSD 8-18-2014 Trk # 88051

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bob Cover — Signature: "on Behalf of" Bob Cover — Month 10 Day 20 Year 2014

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ernest Britton — Signature: [signature] — Month 10 Day 20 Year 14
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to use GM weights of 19,640 lbs ~~per~~ (8910 Kg) per Sarah Lave. (EW) 10/21/14
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a 20140118711
Printed/Typed Name: Hilene DeZeeuw — Signature: Hilene DeZeeuw — Month 10 Day 21 Year 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

CleanHarbors
ENVIRONMENTAL SERVICES®

GM

LOAD SUMMARY RECORD

7:14 10 21 14
63640 lb GROSS
0 lb TARE
63640 lb NET

LOAD DISPOSAL DESTINATION

☐ STABILIZATION	☐ RCRA CELL_____	☒ TSCA CELL B6	☐ SPOT STABILIZATION

LOAD TRACKING INFORMATION

CD

PLANT RECEIVED	DROPPED	FINAL CODE	REVIEWED	WEIGHTS	GRIDS	MANIFEST MAILED
				W		

DATE: 10/21/14	LOAD NO.: 2014011891
GENERATOR: DOW	HAULER: CH
ORDER NO.: 1401533075	DRUM NO.: 41222355
TRUCK NO.: 88051	CONTAINER NO. (s)/ RAILCAR NO.: CHHP20446
CONTAINER TYPE: ED (G) TT FB V OTHER	LOAD COUNT (RAIL ONLY): 1 2 3 4

OPERATOR SIGNATURE	COUNT	DATE

21/Oct/2014	09:26:57
GROSS lbs.	63640
TARE lbs.	44000
NET lbs.	19640

LOAD WASHOUT INFORMATION

WASHOUT:	TYPE:
(YES) NO	INTERIOR (EXTERIOR)

WASHOUT SIGNATURE	DATE
[signature]	10.21.14
DRIVER SIGNATURE	DATE

WASHOUT STAMP

WHEEL WASH
OCT 21 2014
GRASSY MOUNTAIN FACILITY

ITEM	COMMENTS	NAME	DATE
	Weight discrepancy - Resolved		8910 Kg

Clean Harbors Grassy Mountain Facility, Tooele County, Utah

5

WHITE - Facility CANARY - Generator PINK - Transporter GREEN - Receiving GOLD - Operations

CHI 208

Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville UT, 84029
UTD991301748
(435) 884-8900

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Dow Chemical Company	Sales Order#:	1401533075
Generator Address:	3555 Moline Street Aurora, CO, 80010	Date Received:	10/14/2014
Generator Contact Name:			

Generator EPA ID:	COD030446637	Load #:	14011580
		Manifest #:	007020532FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
41093257	8/18/2014	CM	41093257 /	PCB Solids For Landfill	10/14/2014	Landfill	Grassy Mountain, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Shane B. Whitney
Authorized Agent

Wednesday, October 15, 2014
Date

A71401533075-001 SC PPW 8/10/2014

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: COD030446637
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 007020532 FLE

GENERATOR

5. Generator's Name and Mailing Address
Dow Chemical Company
3555 Moline Street
Aurora, CO 80010
(970) 256-8889
Generator's Phone:

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors Env Svcs — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville, UT 84029
Facility's Phone: (435) 884-8900
U.S. EPA ID Number: UTD991301748

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, PG III	1	CM	25 of 11,340	KG	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH607319B ERG#171 BOX 24009 CHRT
OSD 8-18-2014 TRK # 88082

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bob Cover — Signature: "On Behalf of" Bob Cover — Month 10 Day 13 Year 2014

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Frank Ortega — Signature: [signature] — Month 10 Day 13 Year 14
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to use GM Weighed 02 15147 kg Pcie Sarah Lane 10-14-14 KA
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a 20140114XU.
Printed/Typed Name: F. Keith Grunwells — Signature: F. Keith Grunwells — Month 10 Day 14 Year 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

CleanHarbors
ENVIRONMENTAL SERVICES®

GM

LOAD SUMMARY RECORD

7:36 10 14 14
74020 lb GROSS
0 lb TARE
74020 lb NET

LOAD DISPOSAL DESTINATION

STABILIZATION	RCRA CELL	TSCA CELL B6	SPOT STABILIZATION
☐	☐	☒	☐

LOAD TRACKING INFORMATION

PLANT RECEIVED	DROPPED	FINAL CODE	REVIEWED	WEIGHTS	GRIDS	MANIFEST MAILED
		~~F08~~		KG RG 10-14		CD

DATE	LOAD NO.
10/14/14	2014011580

GENERATOR	HAULER
DOW	CH

ORDER NO.	DRUM NO.
1401533075	41013257

TRUCK NO.	CONTAINER NO. (s)/ RAILCAR NO.
88082	CHRT 24009

CONTAINER TYPE:	LOAD COUNT (RAIL ONLY):
ED (G) TT FB V OTHER	1 2 3 4

OPERATOR SIGNATURE	COUNT	DATE

14/Oct/2014	09:59:06
GROSS lbs.	74020
TARE lbs.	40620
NET lbs.	33400

15147 kg

LOAD WASHOUT INFORMATION

WASHOUT:	TYPE:
~~YES~~ NO	INTERIOR ~~EXTERIOR~~

WASHOUT SIGNATURE	DATE
[illegible]	10-14-14

DRIVER SIGNATURE	DATE

WASHOUT STAMP

ITEM	COMMENTS	NAME	DATE
	Weight Discrepancy Resolved		

Clean Harbors Grassy Mountain Facility, Tooele County, Utah

WHITE - Facility CANARY - Generator PINK - Transporter GREEN - Receiving GOLD - Operations

CHI 208

Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville UT, 84029
UTD991301748
(435) 884-8900

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Dow Chemical Company	Sales Order#:	1401533075
Generator Address:	3555 Moline Street Aurora, CO, 80010	Date Received:	10/9/2014
Generator Contact Name:			

Generator EPA ID:	COD030446637	Load #:	14011393
		Manifest #:	007020531FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
41020669	8/18/2014	CM	41020669 /	PCB Solids For Landfill	10/9/2014	Landfill	Grassy Mountain, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Shane B. Whitney
Authorized Agent

Wednesday, October 15, 2014
Date

A7 1401533075-001 SC PPW 8/10/2014

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: COD030446637
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 007020531 FLE

5. Generator's Name and Mailing Address
Dow Chemical Company
3555 Moline Street
Aurora, CO 80010
Generator's Phone: (970) 256-8889

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: NEIER, INC — U.S. EPA ID Number: IND984868406

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville, UT 84029
Facility's Phone: (435) 884-8900
U.S. EPA ID Number: UTD991301748

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, PG III	1	CM	est 11,340	KG	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH807319B ERG#171 BOX CH#20294
OSD 8-18-2014 TRK 89

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bob Cover — Signature: "On Behalf of" Bob Cover — Month 10 Day 8 Year 2014

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Gary Thalmann Jr — Signature: [signature] — Month 10 Day 8 Year 2014
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to ship GM weight 8 9342 kg per Sarah Cave 10-7-14 KG
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a 20140115-95
Printed/Typed Name: Ellen DeZeeuw — Signature: Ellen DeZeeuw — Month 10 Day 09 Year 14

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Clean Harbors ENVIRONMENTAL SERVICES®

GM

LOAD SUMMARY RECORD

7:08 10 09 14
61840 lb GROSS
0 lb TARE
61840 lb NET

LOAD DISPOSAL DESTINATION

☐ STABILIZATION	☐ RCRA CELL ____	☒ TSCA CELL 36	☐ SPOT STABILIZATION

LOAD TRACKING INFORMATION

PLANT RECEIVED	DROPPED	FINAL CODE	REVIEWED	WEIGHTS	GRIDS	MANIFEST MAILED
		2C.				

CD

DATE	LOAD NO.
10/9/14	2014011393

GENERATOR	HAULER
DOW	Neier

ORDER NO.	DRUM NO.
1401533075	41020669

TRUCK NO.	CONTAINER NO. (s)/ RAILCAR NO.
89	CHHP 20294

CONTAINER TYPE:	LOAD COUNT (RAIL ONLY):
ED (G) TT FB V OTHER	1 2 3 4

OPERATOR SIGNATURE	COUNT	DATE

09/Oct/2014	08:54:58
GROSS lbs.	61840
TARE lbs.	41240
NET lbs.	20600

9342kg

LOAD WASHOUT INFORMATION

WASHOUT:	TYPE:
(YES) NO	INTERIOR (EXTERIOR)

WASHOUT SIGNATURE	DATE
[illegible]	10-9-14

DRIVER SIGNATURE	DATE

WASHOUT STAMP

ITEM	COMMENTS	NAME	DATE
	Weight Discrepancy		
	Resolved		

Clean Harbors Grassy Mountain Facility, Tooele County, Utah

WHITE - Facility CANARY - Generator PINK - Transporter GREEN - Receiving GOLD - Operations

CHI 208

Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville UT, 84029
UTD991301748
(435) 884-8900

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Dow Chemical Company	Sales Order#:	1401533075
Generator Address:	3555 Moline Street Aurora, CO, 80010	Date Received:	10/9/2014
Generator Contact Name:			

Generator EPA ID:	COD030446637	Load #:	14011394
		Manifest #:	007020533FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
41021027	8/18/2014	CM	41021027 /	PCB Solids For Landfill	10/9/2014	Landfill	Grassy Mountain, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Shane B. Whitney
Authorized Agent

Friday, October 10, 2014
Date

A7 1401533075-001 SC PPW 8/10/2014

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: COD030446637
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 007020533 FLE

5. Generator's Name and Mailing Address
Dow Chemical Company
3555 Moline Street
Aurora, CO 80010
Generator's Phone: (970) 256-8889

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville, UT 84029
Facility's Phone: (435) 884-8900
U.S. EPA ID Number: UTD991301748

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, PG III	1	CM	est 11,340	KG	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 CH807319B ERG#171 BOX 25610 DINK
OSD 8-18-2014 TRK 1599

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bob Cover — Signature: Bob Cover — Month 10 Day 8 Year 2014

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Michael P. Matejka — Signature — Month 10 Day 8 Year 14
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to use GM Weight of 15909 KG Per Carrier Have KG 10-9-14
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4. H010 H134

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: T. Keith Grunnells — Signature: T. Keith Grunnells — Month 10 Day 9 Year 14

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Clean Harbors ENVIRONMENTAL SERVICES®

GM

LOAD SUMMARY RECORD

LOAD DISPOSAL DESTINATION

STABILIZATION	RCRA CELL	TSCA CELL B6	SPOT STABILIZATION
☐	☐	☒	☐

LOAD TRACKING INFORMATION

PLANT RECEIVED	DROPPED	FINAL CODE	REVIEWED	WEIGHTS	GRIDS	MANIFEST MAILED
		2C.		KG		

DATE	LOAD NO.
10-9-14	2014011394

GENERATOR	HAULER
Dow	CH

ORDER NO.	DRUM NO.
1401533075	41021087

TRUCK NO.	CONTAINER NO. (s)/ RAILCAR NO.
1599	CHRG 25610

CONTAINER TYPE:	LOAD COUNT (RAIL ONLY):
ED (G) TT FB V OTHER	1 2 3 4

OPERATOR SIGNATURE	COUNT	DATE

7:45 10 09 14
76860 lb GROSS
0 lb TARE
76860 lb NET

(D)

09/Oct/2014 09:35:05

GROSS lbs. 76860

TARE lbs. 41780

NET lbs. 35080

15909 kg

LOAD WASHOUT INFORMATION

WASHOUT:	TYPE:
YES NO	INTERIOR EXTERIOR

WASHOUT SIGNATURE	DATE
	10-9-14

DRIVER SIGNATURE	DATE
	9 Oct 2014

WASHOUT STAMP

WHEEL WASH
OCT 9 2014
GRASSY MOUNTAIN FACILITY

ITEM	COMMENTS	NAME	DATE
	Weight Discrepancy Resolved		

Clean Harbors Grassy Mountain Facility, Tooele County, Utah

WHITE - Facility CANARY - Generator PINK - Transporter GREEN - Receiving GOLD - Operations

CHI 208

Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville UT, 84029
UTD991301748
(435) 884-8900

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Dow Chemical Company	Sales Order#:	1401533075
Generator Address:	3555 Moline Street Aurora, CO, 80010	Date Received:	10/22/2014
Generator Contact Name:			

Generator EPA ID:	COD030446637	Load #:	14011965
		Manifest #:	008127093FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
41248857	8/18/2014	CM	41248857 /	PCB Solids For Landfill	10/22/2014	Landfill	Grassy Mountain, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Shane B. Whitney
Authorized Agent

Thursday, October 23, 2014
Date