Applicability Report

Fair Station Former Ash Ponds

Central Iowa Power Cooperative

October 24, 2024

→ The Power of Commitment

OWNER CERTIFICATION

Applicability Report

Fair Station Former Ash Ponds

Montpelier, Iowa

Central Iowa Power Cooperative

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this demonstration and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Sam Stineman, Central Iowa Power Cooperative

10/25/2024

Date

Executive summary

This Applicability Report was prepared under the *Disposal of Coal Combustion Residuals from Electric Utilities – Legacy CCR Impoundments* (CCR Legacy Rule) published May 8, 2024. This Applicability Report documents that the former North and South (#2 and #1) Ash Ponds at the former Fair Generating Station in Montpelier, Iowa are not legacy surface impoundments as defined by the CCR Legacy Rule. The content required in an Applicability Report as defined by 40 Code of Federal Regulations (CFR) §257.100(f)(1) is summarized below.

Item	Content and / or Reference in Report
40 CFR §257.100(f)(1)(i) Except as provided in paragraph (f)(1)(iii) of this section, owners and operators of legacy CCR surface impoundments must prepare a report for each legacy CCR surface impoundment no later than Friday, November 8, 2024. The owner or operator has prepared the applicability report when the report has been placed in the facility's operating record as required by § 257.105(k)(1). At a minimum, the report for each legacy CCR surface impoundment must contain:	The details of the Applicability Report are provided; however, the former Fair Generating Station does not include a legacy surface impoundment.
(A) The name and address of the person(s) owning and operating the legacy CCR surface impoundment with their business phone number and email address.	Fair Station was operated by Central Iowa Power Cooperative (CIPCO) and contact information is provided in Section 2 of this report.
(B) The name associated with the legacy CCR surface impoundment.	Ash Pond Number #1 or South Ash Pond and Ash Pond #2 or North Ash Pond refer to the former ash ponds at Fair Station. See Section 3 of this Report.
(C) Information to identify the legacy CCR surface impoundment, including a figure of the facility and where the unit is located at the facility, facility address, and the latitude and longitude of the facility.	Figure 1 contains this information. See Section 4 of this report.
(D) The identification number of the legacy CCR surface impoundment if one has been assigned by the state.	No identification number was assigned to the former ash ponds. See Section 5 of this report.
(E) A description of the current site conditions, including the current use of the inactive facility.	The former ash ponds were entirely dewatered, excavated, and backfilled. The area is currently an unused field. See Figure 2 and Section 6 of this report.
40 CFR §257.100(f)(1)(ii) (A) The owner or operator of any legacy CCR surface impoundment must certify the applicability report required by paragraph (f)(1)(i) of this section with the following statement signed by the owner or operator or an authorized representative: [statement intentionally omitted]	This certification statement is provided prior to the Executive Summary.
40 CFR §257.100(f)(1)(ii) (B) The owner or operator must notify the Agency of the establishment of the facility's CCR website and the applicability of the rule, using the procedures in § 257.107(a) via the “contact us” form on EPA's CCR website.	CIPCO will complete this notification and post this report.

Contents

Figure index

Appendices

1. Introduction

This Applicability Report was prepared in response to the *Disposal of Coal Combustion Residuals from Electric Utilities – Legacy CCR Impoundments* (CCR Legacy Rule) published May 8, 2024. The CCR Legacy Rule addresses former coal combustion residual (CCR) impoundments and CCR management units at current and former steam electric utilities that were not addressed in previous federal rulemaking. The requirements for an Applicability Report are defined in 40 Code of Federal Regulations (CFR) §257.100(f)(1). The former North and South Ash Ponds were closed by removal of solids and free liquids by November 5, 2014. The conclusion of this Applicability Report is the former ash ponds at the former Fair Generating Station (Fair Station) in Montpelier, Muscatine County, Iowa do not constitute a legacy surface impoundment as defined by 40 CFR §257.53 because the Fair Station ash ponds did not contain CCR and liquids on or after October 19, 2015 as documented in this Applicability Report.

2. Owner

The former owner and an operator of Fair Station and the North and South Ash Ponds is Central Iowa Power Cooperative (CIPCO). A general phone number and e-mail address for CIPCO are: 319-366-8011 and cipco@cipco.net.

3. Operating Name

The former North and South Ash Ponds were part of the Fair Station, formerly located at 3800 Highway 22, Montpelier, Iowa. Fair Station was decommissioned and demolished in 2014 with site restoration completed in 2015.

4. Identification Information

The former facility address is 3800 Highway 22, Montpelier, Iowa, 52761. The former Fair Station layout is shown in Figure 1 including the former ash pond locations. The South Ash Pond, also known as Ash Pond #1, was built with the original Fair Station construction in 1960. The North Ash Pond is also known as Ash Pond #2 and was built to coincide with the addition of generating unit #2 in approximately 1967.

5. Identification Number

No permit number was assigned to the North and South Ash ponds.

6. Current Site Conditions

Fair Station was demolished in 2014. The last day of generation was November 2, 2013 (AP, 2013). The North and South Ash Ponds were excavated beyond the ponds' walls and floor by approximately 2 feet to remove all CCR. To accomplish the excavation activities, the ponds were dewatered. CCR and CCR-impacted materials from the North

and South Ash Ponds were removed by excavation until there was no visual evidence of CCR, followed by confirmation sample analysis confirming that no residuals were present (Terracon Consultants, Inc., 2014). The floor samples were compared to the Iowa Statewide Standards (SWSs) for soil. One location in the South Ash Pond originally exceeded the SWS value for arsenic and additional excavation and confirmation sampling was completed. Appendix A contains data tables from both the North and South Ash Pond sampling and sample location maps (note a complete map of the South Ash Pond sampling locations could not be located).

Between July 31, 2014 and September 22, 2014, 17,074 tons of material were removed from the North Ash Pond. Between August 4, 2014 and November 5, 2014, 32,072 tons of material were excavated from the South Ash Pond. The last delivery of CCR (which included excavated material from the ponds) from Fair Station to the CIPCO operated and Iowa Department of Natural Resources regulated CCR monofill was on November 5, 2014 (GHD, 2018).

As of November 5, 2014, the Fair Station ash ponds closure was complete with removal of free liquids and solids. Following demolition of Fair Station infrastructure, the property was regraded, including backfill of the former ash ponds. The site has not been redeveloped and is generally a grassy field. Photographs provided in Appendix B show excavation, backfilling, and restoration activities at the former ash ponds. Figure 2 is an aerial image representative of current conditions and Figure 3 is an as-built survey following site grading.

7. Conclusion

Closure activities for Fair Station included the removal of CCR and liquids from the two on-site ash ponds along with other plant infrastructure. All removal activity was concluded by November 5, 2014. The Legacy CCR rule defines a legacy surface impoundment: *means a CCR surface impoundment that no longer receives CCR but contained both CCR and liquids on or after October 19, 2015, and that is located at an inactive electric utility or independent power producer.* Since the solids and liquids were removed prior to October 19, 2015, there are no legacy CCR surface impoundments associated with the former Fair Station and no further work under the CCR Legacy Rule is required regarding the former ash ponds.

8. References

Associated Press (AP), 2013. ‘1960s’ Coal Fuel Plant in Eastern Iowa Closes. November 15, 2013. Accessed October 2, 2024. https://www.desmoinesregister.com/story/money/business/1/01/01/1960s-coal-fueled-plant-in-eastern-iowa-closes/3611223/

GHD, 2015. Construction Summary Report CIPCO Fair Station CCR Monofill. Central Iowa Power Cooperative, Muscatine County, Iowa. December 22, 2015.

Terracon Consultants, Inc., 2014. Confirmation Sampling Plan CIPCO – Fair Station Demolition and Remediation Project. Montpelier, Iowa. April 1, 2014.

Figures

Paper Size ANSI A

0 50 100 150 200

Feet

Map Projection: Transverse Mercator
Horizontal Datum: NAD 1983 2011
Grid: NAD 1983 (2011) IaRCS zone 14

N

GHD

CENTRAL IOWA POWER COOPERATIVE
FORMER FAIR GENERATING STATION
MONTPELIER, IOWA

FORMER CONDITIONS
MAY 2012

Project No. **12560436**
Revision No. **-**
Date **10/03/2024**

FIGURE 1

Q:\GIS\PROJECTS\12560000s\12560436\GIS\Maps\Deliverables\RPT\RPT004\12560436_RPT004_001_FormerConditions.mxd
Print date: 03 Oct 2024 - 16:09

Data source: Image ©2024 Google, Imagery Date 5/20/2012. Created by: rjcoy

Paper Size ANSI A

0 50 100 150 200

Feet

Map Projection: Transverse Mercator
Horizontal Datum: NAD 1983 2011
Grid: NAD 1983 (2011) IaRCS zone 14

N

GHD

CENTRAL IOWA POWER COOPERATIVE
FORMER FAIR GENERATING STATION
MONTPELIER, IOWA

CURRENT CONDITIONS
OCTOBER 2022

Project No. **12560436**
Revision No. **-**
Date **10/03/2024**

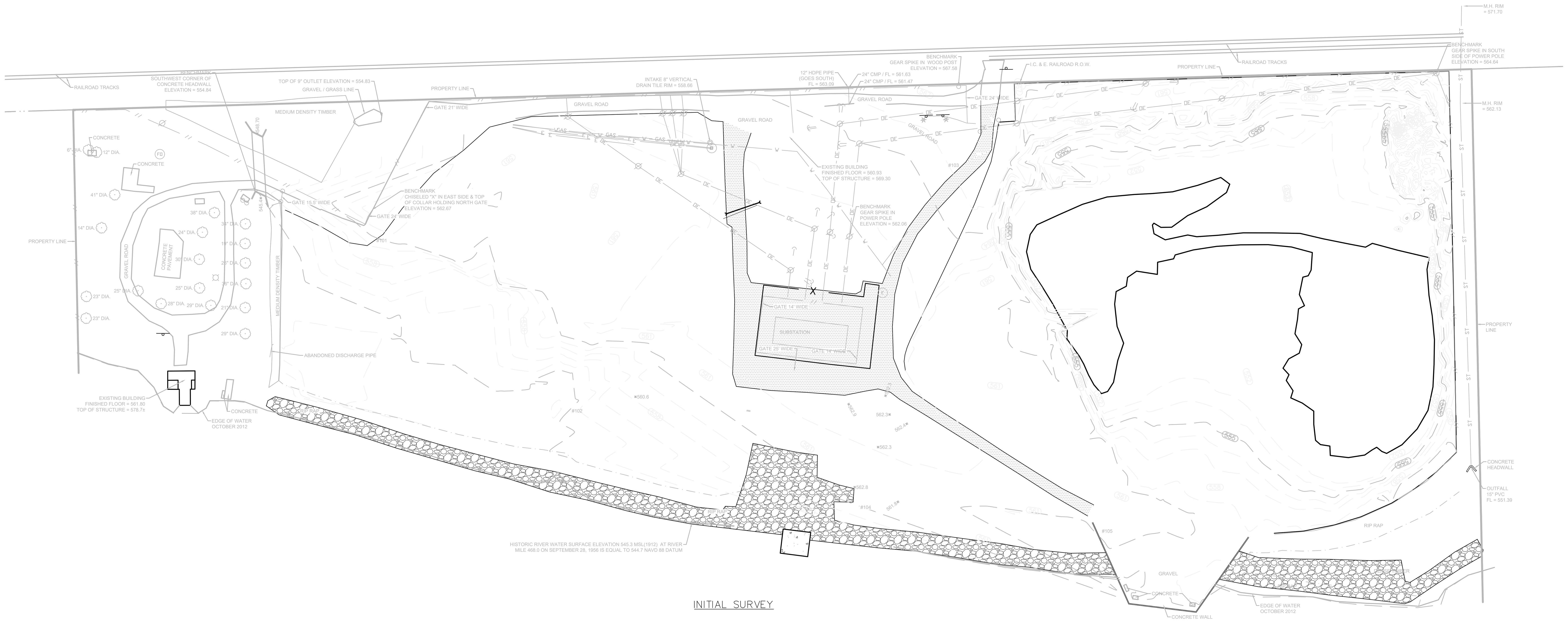
FIGURE 2

Q:\GIS\PROJECTS\12560000s\12560436\GIS\Maps\Deliverables\RPT\RPT004\12560436_RPT004_002_CurrentConditions.mxd
Print date: 03 Oct 2024 - 16:15

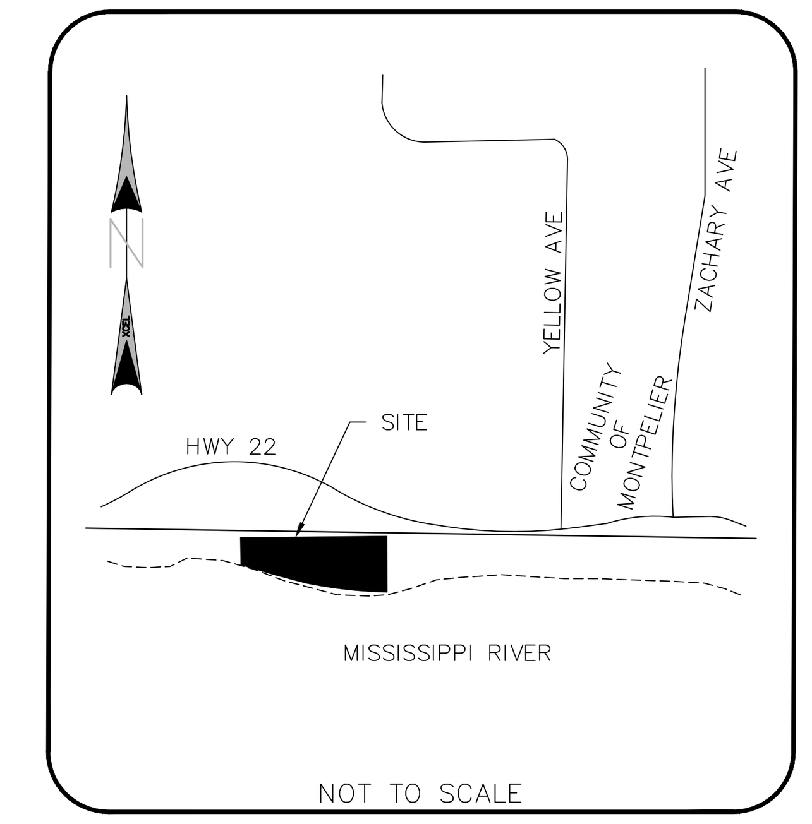
Data source: Image ©2024 Google, Imagery Date 10/28/2022. Created by: rjcoy

CIPCO FAIRSTATION
FINAL AS-BUILT SURVEY

3800 HIGHWAY 22
MUSCATINE, IA 52761



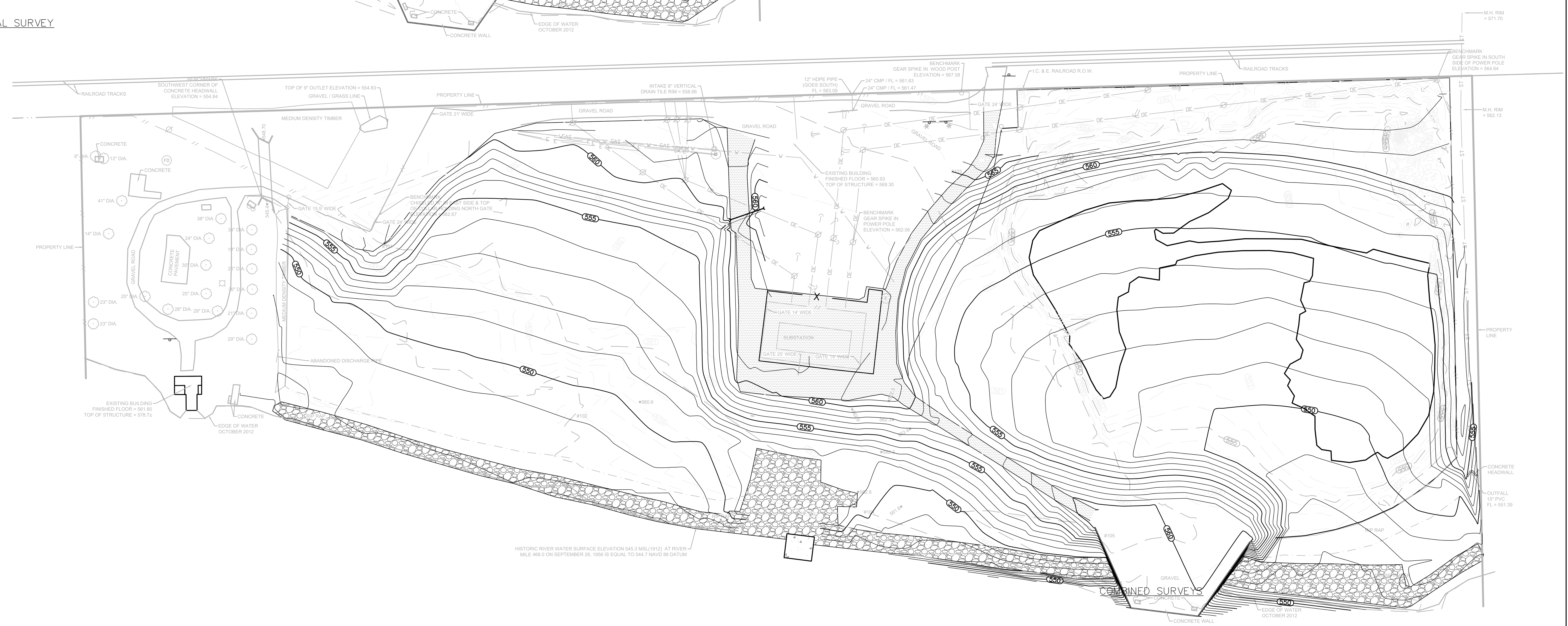
INITIAL SURVEY



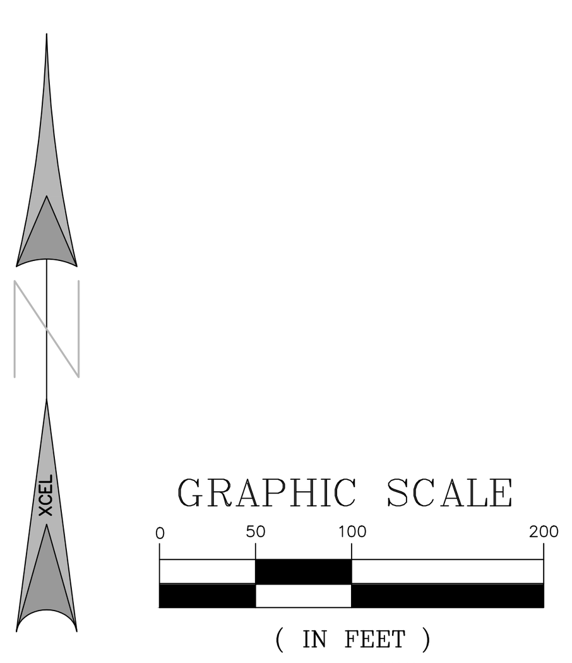
VICINITY MAP

LEGEND

- EXISTING CONTOUR – MAJOR ELEVATION
- EXISTING CONTOUR – MINOR ELEVATION
- FINAL CONTOUR – MAJOR ELEVATION
- FINAL CONTOUR – MINOR ELEVATION
- POWER POLE
- GUY WIRE
- TREE
- ELECTRICAL MANHOLE
- GRAVEL SURFACE
- RIP RAP SURFACE



COMBINED SURVEYS



I HEREBY CERTIFY THAT THIS LAND SURVEYING DOCUMENT WAS PREPARED AND THE RELATED SURVEY WORK WAS PERFORMED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF IOWA.

DAN J. KUEHL — **OCTOBER 5, 2015**
DATE
LICENSE NUMBER 19959
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2015
PAGES OR SHEETS COVERED BY THIS SEAL 2

PROFESSIONAL LAND SURVEYOR
DAN J. KUEHL
19959
IOWA

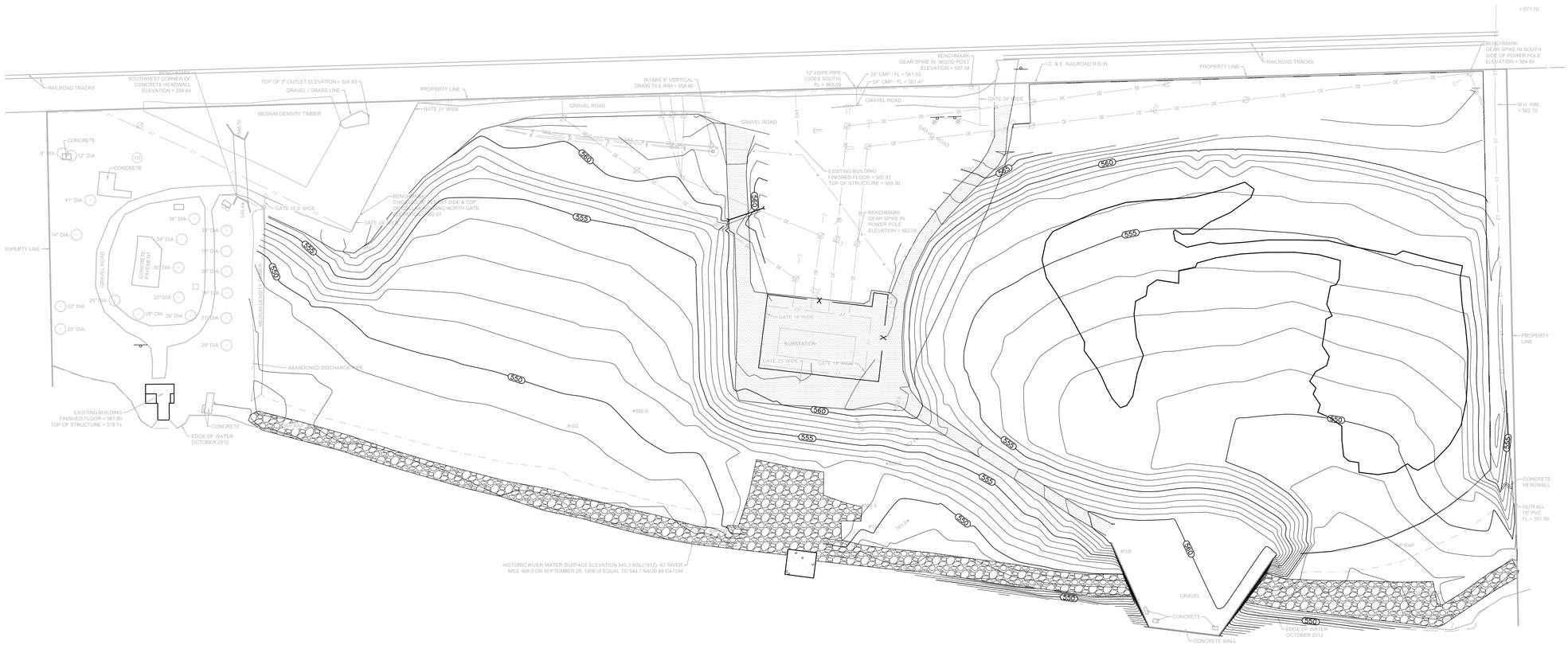
REVISIONS	
DATE	DESCRIPTION

XCEL Consultants
Engineering & Land Surveying
8300 42ND STREET WEST
ROCK ISLAND, IL 61201
(O) 309-787-9988
(F) 309-756-5540

CHK BY:	APV BY:
BCH	DJK
XCEL JOB NUMBER: 140373	
DRAWING NUMBER: **FIGURE 3A**	
1 OF 2	

CIPCO FAIRSTATION
FINAL AS-BUILT SURVEY

3800 HIGHWAY 22
MUSCATINE, IA 52761



LEGEND

- EXISTING CONTOUR – MAJOR ELEVATION
- EXISTING CONTOUR – MINOR ELEVATION
- FINAL CONTOUR – MAJOR ELEVATION
- FINAL CONTOUR – MINOR ELEVATION
- POWER POLE
- GUY WIRE
- TREE
- ELECTRICAL MANHOLE
- GRAVEL SURFACE
- RIP RAP SURFACE

FINAL SURVEY

N

GRAPHIC SCALE
0 40 80 160
(IN FEET)
1 inch = 80 ft.

REVISIONS	
DATE	DESCRIPTION

XCEL Consultants
Engineering & Land Surveying
8300 42ND STREET WEST
ROCK ISLAND, IL 61201
(O) 309-787-9988
(F) 309-756-5540

CHK BY:	APV BY:
BCH	DJK

XCEL JOB NUMBER: 140373

DRAWING NUMBER: **FIGURE 3B**

2 OF 2

Appendices

Appendix A

Ash Pond Floor Sample Results

OUTLET

PROPERTY LINE

WELL HOUSE
WATER WELL

INTAKE 8" VERTICAL
DRAIN TILE

MEDIUM DENSITY TIMBER

GATE 21' WIDE

GATE 15.5' WIDE

GATE 24' WIDE

#101

STANDING WATER

NORTH ASH POND AREA
APPROXIMATE AREA= 61,180 square feet
APPROXIMATE PERIMETER= 975 feet

EXISTING BUILDING

EXISTING BUILDING

STORM M.H.

MEDIUM DENSITY TIMBER

STANDING WATER

SOUTH ASH POND AREA
APPROXIMATE AREA= 77,205 square feet
APPROXIMATE PERIMETER= 1,125 feet

ABANDONED DISCHARGE PIPE

STORM M.H.

#102

RIP RAP

RIP RAP

OWNERS NPDES OUTFALL

LEGEND

APPROXIMATE BOUNDARIES OF ASH PONDS

FENCE

Note - Shown contours and elevations are prior to closure construction activities.

SITE PLAN
0 30' 60'
SCALE IN FEET

NORTH

NOTES:

1. SUBCONTRACTOR TO REMOVE, HANDLE, TRANSPORT AND OFFSITE DISPOSAL AT OWNERS MONOFILL OF THE REMAINING ASH.

no.	date	by	ckd	description
A	12/13/13	DAC	EGE	ISSUED FOR BID

Note: Sample Locations start with NAP for North Ash Pond Area and SAP for South Ash Pond Area

PRELIMINARY - NOT FOR CONSTRUCTION

Burns & McDonnell SINCE 1898

date	detailed
DECEMBER 3, 2013	D. CHAVEZ
designed	checked
E. EHRENGREN	J. POPE

CIPCO
Central Iowa Power Cooperative
A Touchstone Energy® Cooperative

CIPCO
FAIR STATION
DEMOLITION

FIGURE 2

NORTH/SOUTH ASH POND AREA

project	contract
69005	69005-1

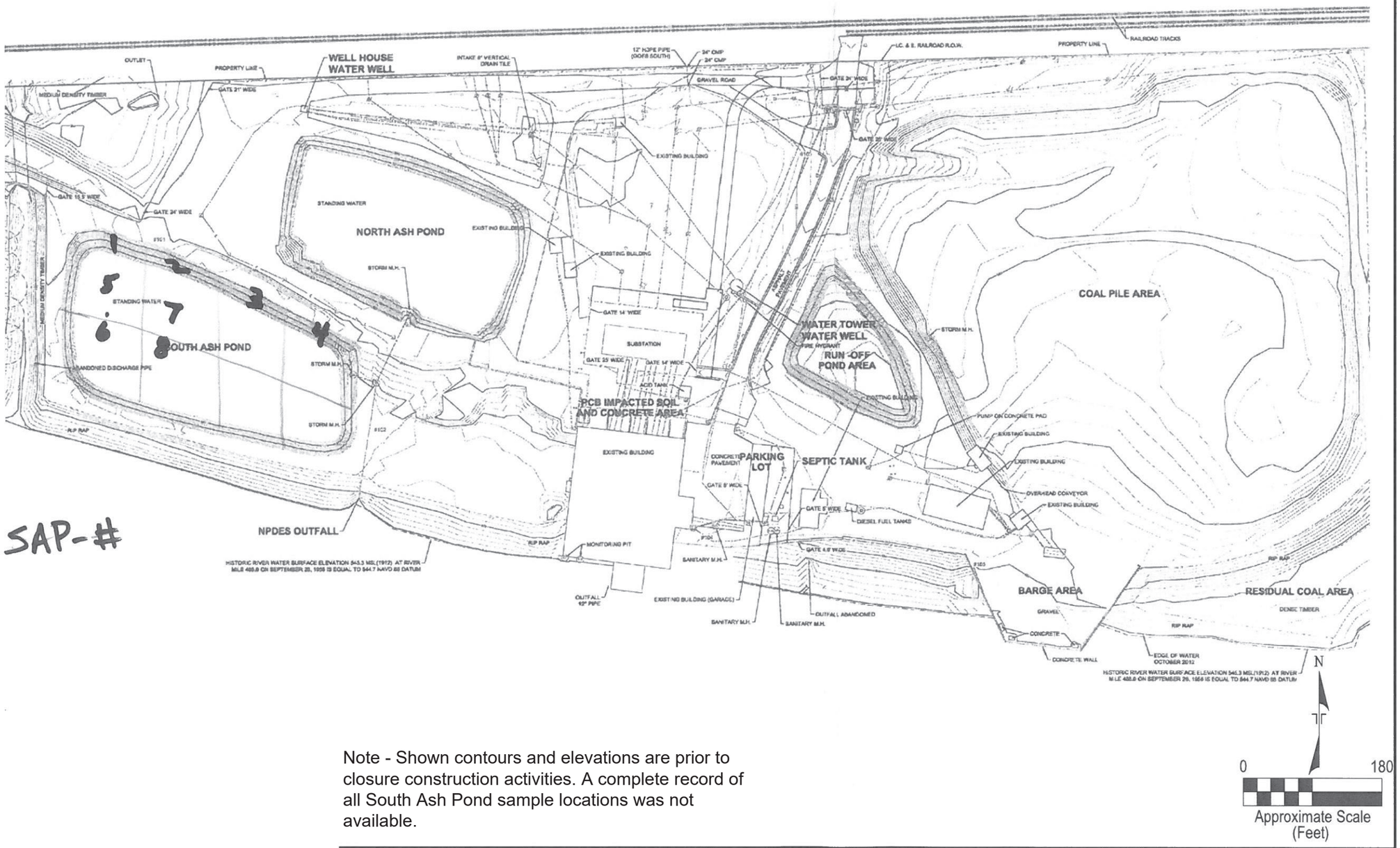
drawing CE002 – rev. A

sheet of sheets

file 69005_CE002.DWG

LICENSED PROFESSIONAL ENGINEER
JEFFERY L. POPE
21252
IOWA

COPYRIGHT © 2013 BURNS & McDONNELL ENGINEERING COMPANY, INC.



SAP-#

Note - Shown contours and elevations are prior to closure construction activities. A complete record of all South Ash Pond sample locations was not available.

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	KAB
Drawn By:	DWD
Checked By:	KAB/MRF
Approved By:	KAB

Project No.	07147016
Scale:	AS SHOWN
File No.	TST07147016-2
Date:	APRIL 2014

Terracon
Consulting Engineers and Scientists
870 40th Avenue Bettendorf, Iowa 52722
(563) 355-0702 (563) 355-4789

ENVIRONMENTAL SITE PLAN

TOXIC SUBSTANCES REMOVAL WORK PLAN
CIPCO - FAIR STATION DEMOLITION & CCR MONOFILL CAP
3800 HIGHWAY 22
MONTPELIER, IA

EXHIBIT 2

Analytical Results - Floor Samples
Fair Station Former North and South Ash Ponds
CIPCO
Montpelier, Iowa

Sample Location:				NAP - 1	NAP - 2	NAP - 3	NAP - 4	NAP - 5	NAP-6	NAP-7	NAP-8	NAP-9	NAP-10
Sample ID:				310-36210-1	310-36210-2	310-36210-3	310-36210-4	310-36210-5	310-37426-1	310-37426-2	310-37426-3	310-37426-4	310-37426-5
Sample Date:				8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014
Parameters	**CAS**	**Units**	**SWS (Soil)**										
GC/MS Semi VOA (By 8270D SIM)													
Acenaphthene	83-32-9	mg/kg	3400	<0.0127	<0.0113	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
Acenaphthylene	208-96-8	mg/kg	1700	<0.0127	<0.0113	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
Anthracene	120-12-7	mg/kg	17000	<0.0127	<0.0113	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
Benzo[a]anthracene	56-55-3	mg/kg	3.1	<0.0127	0.0183	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	0.0165	<0.0117	<0.0124
Benzo[a]pyrene	50-32-8	mg/kg	0.31	<0.0127	0.0262	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	0.0193	<0.0117	<0.0124
Benzo[b]fluoranthene	205-99-2	mg/kg	3.1	<0.0127	0.0299	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	0.02	<0.0117	<0.0124
Benzo[g,h,i]perylene	191-24-2	mg/kg	170	<0.0127	0.0184	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
Benzo[k]fluoranthene	207-08-9	mg/kg	31	<0.0127	0.0119	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
Chrysene	218-01-9	mg/kg	310	<0.0127	0.0232	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	0.0186	<0.0117	<0.0124
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.31	<0.0127	<0.0113	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
Fluoranthene	206-44-0	mg/kg	2300	<0.0127	0.0269	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	0.0182	<0.0117	<0.0124
Fluorene	86-73-7	mg/kg	2300	<0.0127	<0.0113	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	3.1	<0.0127	0.0155	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
2-Methylnaphthalene	91-57-6	mg/kg	240	<0.0127	0.0246	<0.0123	<0.0119	0.0152	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
Phenanthrene	85-01-8	mg/kg	1700	<0.0127	0.0163	<0.0123	<0.0119	0.0294	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
Pyrene	129-00-0	mg/kg	1700	<0.0127	0.0147	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	0.0235	<0.0117	<0.0124
Naphthalene	91-20-3	mg/kg	1100	<0.0127	0.0168	<0.0123	<0.0119	<0.0119	<0.0219	<0.0117	<0.0128	<0.0117	<0.0124
GC/MS VOA (By 8260C)													
Acetone	67-64-1	mg/kg	68000	<0.152	<0.128	<0.128	<0.128	<0.138	<0.158	<0.135	<0.146	<0.132	<0.163
Benzene	71-43-2	mg/kg	88	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Bromobenzene	108-86-1	mg/kg	NA	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Bromochloromethane	74-97-5	mg/kg	760	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Bromodichloromethane	75-27-4	mg/kg	50	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Bromoform	75-25-2	mg/kg	390	<0.0304	<0.0255	<0.0256	<0.0257	<0.0276	<0.0316	<0.0270	<0.0292	<0.0265	<0.0325
Bromomethane	74-83-9	mg/kg	110	<0.0608	<0.0510	<0.0512	<0.0514	<0.0552	<0.0631	<0.0540	<0.0584	<0.0529	<0.0651
2-Butanone (MEK)	78-93-3	mg/kg	46000	<0.152	<0.128	<0.128	<0.128	<0.138	<0.158	<0.135	<0.146	<0.132	<0.163
n-Butylbenzene	104-51-8	mg/kg	23000	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
sec-Butylbenzene	135-98-8	mg/kg	NA	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
tert-Butylbenzene	98-06-6	mg/kg	NA	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Carbon disulfide	75-15-0	mg/kg	7600	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Carbon tetrachloride	56-23-5	mg/kg	24	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Chlorobenzene	108-90-7	mg/kg	1500	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Chlorodibromomethane	124-48-1	mg/kg	150	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Chloroethane	75-00-3	mg/kg	30000	<0.0608	<0.0510	<0.0512	<0.0514	<0.0552	<0.0631	<0.0540	<0.0584	<0.0529	<0.0651
Chloroform	67-66-3	mg/kg	510	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Chloromethane	74-87-3	mg/kg	240	<0.0608	<0.0510	<0.0512	<0.0514	<0.0552	<0.0631	<0.0540	<0.0584	<0.0529	<0.0651
2-Chlorotoluene	95-49-8	mg/kg	1500	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
4-Chlorotoluene	106-43-4	mg/kg	1500	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,2-Dibromo-3-Chloropropane	96-12-8	mg/kg	2.2	<0.152	<0.128	<0.128	<0.128	<0.138	<0.158	<0.135	<0.146	<0.132	<0.163
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	1.5	<0.152	<0.128	<0.128	<0.128	<0.138	<0.158	<0.135	<0.146	<0.132	<0.163
Dibromomethane	74-95-3	mg/kg	760	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,2-Dichlorobenzene	95-50-1	mg/kg	5500	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,3-Dichlorobenzene	541-73-1	mg/kg	5500	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,4-Dichlorobenzene	106-46-7	mg/kg	610	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Dichlorodifluoromethane	75-71-8	mg/kg	15000	<0.0456	<0.0383	<0.0384	<0.0385	<0.0414	<0.0473	<0.0405	<0.0438	<0.0397	<0.0488
1,1-Dichloroethane	75-34-3	mg/kg	15000	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,2-Dichloroethane	107-06-2	mg/kg	34	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163

Analytical Results - Floor Samples
Fair Station Former North and South Ash Ponds
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Sample Location:				**NAP - 1**	**NAP - 2**	**NAP - 3**	**NAP - 4**	**NAP - 5**	**NAP-6**	**NAP-7**	**NAP-8**	**NAP-9**	**NAP-10**
Sample ID:				**310-36210-1**	**310-36210-2**	**310-36210-3**	**310-36210-4**	**310-36210-5**	**310-37426-1**	**310-37426-2**	**310-37426-3**	**310-37426-4**	**310-37426-5**
Sample Date:				**8/5/2014**	**8/5/2014**	**8/5/2014**	**8/5/2014**	**8/5/2014**	**8/21/2014**	**8/21/2014**	**8/21/2014**	**8/21/2014**	**8/21/2014**
Parameters	**CAS**	**Units**	**SWS (Soil)**										
1,1-Dichloroethene	75-35-4	mg/kg	380	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
cis-1,2-Dichloroethene	156-59-2	mg/kg	760	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
trans-1,2-Dichloroethene	156-60-5	mg/kg	1500	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,2-Dichloropropane	78-87-5	mg/kg	46	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,3-Dichloropropane	142-28-9	mg/kg	NA	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
2,2-Dichloropropane	594-20-7	mg/kg	NA	<0.0608	<0.0510	<0.0512	<0.0514	<0.0552	<0.0631	<0.0540	<0.0584	<0.0529	<0.0651
1,1-Dichloropropene	563-58-6	mg/kg	NA	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NA	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NA	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Ethylbenzene	100-41-4	mg/kg	7600	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Hexachlorobutadiene	87-68-3	mg/kg	31	<0.0760	<0.0638	<0.0639	<0.0642	<0.0689	<0.0789	<0.0675	<0.0730	<0.0662	<0.0813
Hexane	110-54-3	mg/kg	4600	<0.0760	<0.0638	<0.0639	<0.0642	<0.0689	<0.0789	<0.0675	<0.0730	<0.0662	<0.0813
Isopropylbenzene	98-82-8	mg/kg	7600	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
p-Isopropyltoluene	99-87-6	mg/kg	NA	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Methylene Chloride	75-09-2	mg/kg	410	<0.152	<0.128	<0.128	<0.128	<0.138	<0.158	<0.135	<0.146	<0.132	<0.163
Methyl tert-butyl ether	1634-04-4	mg/kg	2300	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Naphthalene	91-20-3	mg/kg	1100	<0.0760	<0.0638	<0.0639	<0.0642	<0.0689	<0.0789	<0.0675	<0.0730	<0.0662	<0.0813
N-Propylbenzene	103-65-1	mg/kg	7600	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Styrene	100-42-5	mg/kg	15000	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	230	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	15	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Tetrachloroethene	127-18-4	mg/kg	5.7	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Toluene	108-88-3	mg/kg	6100	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NA	<0.0760	<0.0638	<0.0639	<0.0642	<0.0689	<0.0789	<0.0675	<0.0730	<0.0662	<0.0813
1,2,4-Trichlorobenzene	120-82-1	mg/kg	760	<0.0760	<0.0638	<0.0639	<0.0642	<0.0689	<0.0789	<0.0675	<0.0730	<0.0662	<0.0813
1,1,1-Trichloroethane	71-55-6	mg/kg	150000	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,1,2-Trichloroethane	79-00-5	mg/kg	54	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Trichloroethene	79-01-6	mg/kg	7.7	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Trichlorofluoromethane	75-69-4	mg/kg	23000	<0.0608	<0.0510	<0.0512	<0.0514	<0.0552	<0.0631	<0.0540	<0.0584	<0.0529	<0.0651
1,2,3-Trichloropropane	96-18-4	mg/kg	0.44	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,2,4-Trimethylbenzene	95-63-6	mg/kg	3800	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3800	<0.0152	<0.0128	<0.0128	<0.0128	<0.0138	<0.0158	<0.0135	<0.0146	<0.0132	<0.0163
Vinyl chloride	75-01-4	mg/kg	2.1	<0.0456	<0.0383	<0.0384	<0.0385	<0.0414	<0.0473	<0.0405	<0.0438	<0.0397	<0.0488
Xylenes, Total	1330-20-7	mg/kg	15000	<0.0456	<0.0383	<0.0384	<0.0385	<0.0414	<0.0473	<0.0405	<0.0438	<0.0397	<0.0488
General Chemistry (By 7196A)													
Chromium, hexavalent	18540-29-9	mg/kg	210	<1.23	<1.12	<1.13	<1.11	<1.17	<1.29	<1.23	<1.33	<1.18	<1.31
Chromium, trivalent	16065-83-1	mg/kg	97000	24.4	17.8	13.2	20.1	22.9	19.3	16.9	24	27.7	18.6
General Chemistry (By 9045D - Dissolved)													
pH Dissolved		su	NA	7.74	7.99	8.19	8.18	8.31	8.17	8.16	7.96	7.63	7.56

Analytical Results - Floor Samples
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Sample Location:				NAP - 1	NAP - 2	NAP - 3	NAP - 4	NAP - 5	NAP-6	NAP-7	NAP-8	NAP-9	NAP-10
Sample ID:				310-36210-1	310-36210-2	310-36210-3	310-36210-4	310-36210-5	310-37426-1	310-37426-2	310-37426-3	310-37426-4	310-37426-5
Sample Date:				8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014
Parameters	**CAS**	**Units**	**SWS (Soil)**										
Metals (By 6010C)													
Arsenic	7440-38-2	mg/kg	17	<11.5	<10.5	<10.9	11.2	<11.2	<11.9	<10.5	<10.6	<11.5	<9.85
Barium	7440-39-3	mg/kg	15000	162	106	73.5	102	59.3	74.2	68.9	120	151	61.9
Beryllium	7440-41-7	mg/kg	110	<1.43	<1.31	<1.36	<1.23	<1.40	<1.49	<1.31	<1.33	<1.44	<1.23
Cadmium	7440-43-9	mg/kg	70	<2.87	<2.61	<2.72	<2.46	<2.80	<2.99	<2.63	<2.65	<2.88	<2.46
Chromium	7440-47-3	mg/kg	NA	24.4	17.8	13.2	20.1	22.9	19.3	16.9	24	27.7	18.6
Cobalt	7440-48-4	mg/kg	31	10.4	9.76	4.85	9.91	5.71	5.03	5.4	7.91	11.9	6.6
Copper	7440-50-8	mg/kg	15000	21.8	13.3	9.51	16.4	17.1	13.8	12.8	17.3	19	10.8
Iron	7439-89-6	mg/kg	NA	22200	17300	14400	24500	14900	17500	17600	21000	25000	18000
Lead	7439-92-1	mg/kg	400	<14.3	<13.1	<13.6	<12.3	<14.0	<14.9	<13.1	<13.3	<14.4	<12.3
Magnesium	7439-95-4	mg/kg	NA	4870	4630	3710	6580	3320	4610	7660	4740	4360	2220
Manganese	7439-96-5	mg/kg	10000	620	883	805	1440	341	328	409	564	698	521
Selenium	7782-49-2	mg/kg	390	<21.5	<19.6	<20.4	<18.4	<21.0	<22.4	<19.7	<19.9	<21.6	<18.5
Silver	7440-22-4	mg/kg	370	<2.87	<2.61	<2.72	<2.46	<2.80	<2.99	<2.63	<2.65	<2.88	<2.46
Zinc	7440-66-6	mg/kg	23000	86.7	57	28.3	113	34	38.9	35.1	60.4	42.1	26.8
Metals (By 7471B)													
Mercury	7439-97-6	mg/kg	23	0.0739	0.0263	<0.0242	<0.0218	<0.0211	<0.0233	<0.0239	0.0624	<0.0215	<0.0262

Analytical Results - Floor Samples
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Sample Location:				NAP-11	NAP-12	NAP-13	NAP-14	NAP-15	NAP-16	NAP-17	SAP-1	SAP-1A	SAP-2
Sample ID:				310-37426-6	310-37426-7	310-37426-8	310-37426-9	310-37426-10	310-37426-11	310-37426-12	310-40125-1	310-42229-13	310-40125-2
Sample Date:				8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	9/29/2014	10/23/2014	9/29/2014
Parameters	**CAS**	**Units**	**SWS (Soil)**										
GC/MS Semi VOA (By 8270D SIM)													
Acenaphthene	83-32-9	mg/kg	3400	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Acenaphthylene	208-96-8	mg/kg	1700	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Anthracene	120-12-7	mg/kg	17000	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Benzo[a]anthracene	56-55-3	mg/kg	3.1	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Benzo[a]pyrene	50-32-8	mg/kg	0.31	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Benzo[b]fluoranthene	205-99-2	mg/kg	3.1	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Benzo[g,h,i]perylene	191-24-2	mg/kg	170	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Benzo[k]fluoranthene	207-08-9	mg/kg	31	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Chrysene	218-01-9	mg/kg	310	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.31	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Fluoranthene	206-44-0	mg/kg	2300	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Fluorene	86-73-7	mg/kg	2300	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	3.1	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
2-Methylnaphthalene	91-57-6	mg/kg	240	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Phenanthrene	85-01-8	mg/kg	1700	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Pyrene	129-00-0	mg/kg	1700	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
Naphthalene	91-20-3	mg/kg	1100	<0.0111	<0.0126	<0.115	<0.0204	<0.0121	<0.0108	<0.0125	<0.138	NA	<0.113
GC/MS VOA (By 8260C)													
Acetone	67-64-1	mg/kg	68000	<0.144	<0.155	<0.135	<0.133	<0.144	<0.122	0.307	<0.154	NA	<0.125
Benzene	71-43-2	mg/kg	88	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Bromobenzene	108-86-1	mg/kg	NA	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Bromochloromethane	74-97-5	mg/kg	760	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Bromodichloromethane	75-27-4	mg/kg	50	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Bromoform	75-25-2	mg/kg	390	<0.0289	<0.0309	<0.0271	<0.0266	<0.0288	<0.0244	<0.0314	<0.0309	NA	<0.0251
Bromomethane	74-83-9	mg/kg	110	<0.0578	<0.0618	<0.0542	<0.0533	<0.0576	<0.0488	<0.0629	<0.0618	NA	<0.0501
2-Butanone (MEK)	78-93-3	mg/kg	46000	<0.144	<0.155	<0.135	<0.133	<0.144	<0.122	<0.157	<0.154	NA	<0.125
n-Butylbenzene	104-51-8	mg/kg	23000	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
sec-Butylbenzene	135-98-8	mg/kg	NA	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
tert-Butylbenzene	98-06-6	mg/kg	NA	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Carbon disulfide	75-15-0	mg/kg	7600	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Carbon tetrachloride	56-23-5	mg/kg	24	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Chlorobenzene	108-90-7	mg/kg	1500	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Chlorodibromomethane	124-48-1	mg/kg	150	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Chloroethane	75-00-3	mg/kg	30000	<0.0578	<0.0618	<0.0542	<0.0533	<0.0576	<0.0488	<0.0629	<0.0618	NA	<0.0501
Chloroform	67-66-3	mg/kg	510	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Chloromethane	74-87-3	mg/kg	240	<0.0578	<0.0618	<0.0542	<0.0533	<0.0576	<0.0488	<0.0629	<0.0618	NA	<0.0501
2-Chlorotoluene	95-49-8	mg/kg	1500	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
4-Chlorotoluene	106-43-4	mg/kg	1500	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,2-Dibromo-3-Chloropropane	96-12-8	mg/kg	2.2	<0.144	<0.155	<0.135	<0.133	<0.144	<0.122	<0.157	<0.154	NA	<0.125
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	1.5	<0.144	<0.155	<0.135	<0.133	<0.144	<0.122	<0.157	<0.154	NA	<0.125
Dibromomethane	74-95-3	mg/kg	760	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,2-Dichlorobenzene	95-50-1	mg/kg	5500	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,3-Dichlorobenzene	541-73-1	mg/kg	5500	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,4-Dichlorobenzene	106-46-7	mg/kg	610	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Dichlorodifluoromethane	75-71-8	mg/kg	15000	<0.0433	<0.0464	<0.0406	<0.0400	<0.0432	<0.0366	<0.0472	<0.0463	NA	<0.0376
1,1-Dichloroethane	75-34-3	mg/kg	15000	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,2-Dichloroethane	107-06-2	mg/kg	34	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125

Analytical Results - Floor Samples
Fair Station Former North and South Ash Ponds
CIPCO
Montpelier, Iowa

Sample Location:				**NAP-11**	**NAP-12**	**NAP-13**	**NAP-14**	**NAP-15**	**NAP-16**	**NAP-17**	**SAP-1**	**SAP-1A**	**SAP-2**
Sample ID:				**310-37426-6**	**310-37426-7**	**310-37426-8**	**310-37426-9**	**310-37426-10**	**310-37426-11**	**310-37426-12**	**310-40125-1**	**310-42229-13**	**310-40125-2**
Sample Date:				**8/21/2014**	**8/21/2014**	**8/21/2014**	**8/21/2014**	**8/21/2014**	**8/21/2014**	**8/21/2014**	**9/29/2014**	**10/23/2014**	**9/29/2014**
Parameters	**CAS**	**Units**	**SWS (Soil)**										
1,1-Dichloroethene	75-35-4	mg/kg	380	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
cis-1,2-Dichloroethene	156-59-2	mg/kg	760	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
trans-1,2-Dichloroethene	156-60-5	mg/kg	1500	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,2-Dichloropropane	78-87-5	mg/kg	46	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,3-Dichloropropane	142-28-9	mg/kg	NA	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
2,2-Dichloropropane	594-20-7	mg/kg	NA	<0.0578	<0.0618	<0.0542	<0.0533	<0.0576	<0.0488	<0.0629	<0.0618	NA	<0.0501
1,1-Dichloropropene	563-58-6	mg/kg	NA	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NA	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NA	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Ethylbenzene	100-41-4	mg/kg	7600	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Hexachlorobutadiene	87-68-3	mg/kg	31	<0.0722	<0.0773	<0.0677	<0.0666	<0.0720	<0.0610	<0.0786	<0.0772	NA	<0.0626
Hexane	110-54-3	mg/kg	4600	<0.0722	<0.0773	<0.0677	<0.0666	<0.0720	<0.0610	<0.0786	<0.0772	NA	<0.0626
Isopropylbenzene	98-82-8	mg/kg	7600	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
p-Isopropyltoluene	99-87-6	mg/kg	NA	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Methylene Chloride	75-09-2	mg/kg	410	<0.144	<0.155	<0.135	<0.133	<0.144	<0.122	<0.157	<0.154	NA	<0.125
Methyl tert-butyl ether	1634-04-4	mg/kg	2300	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Naphthalene	91-20-3	mg/kg	1100	<0.0722	<0.0773	<0.0677	<0.0666	<0.0720	<0.0610	<0.0786	<0.0772	NA	<0.0626
N-Propylbenzene	103-65-1	mg/kg	7600	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Styrene	100-42-5	mg/kg	15000	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	230	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	15	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Tetrachloroethene	127-18-4	mg/kg	5.7	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Toluene	108-88-3	mg/kg	6100	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NA	<0.0722	<0.0773	<0.0677	<0.0666	<0.0720	<0.0610	<0.0786	<0.0772	NA	<0.0626
1,2,4-Trichlorobenzene	120-82-1	mg/kg	760	<0.0722	<0.0773	<0.0677	<0.0666	<0.0720	<0.0610	<0.0786	<0.0772	NA	<0.0626
1,1,1-Trichloroethane	71-55-6	mg/kg	150000	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,1,2-Trichloroethane	79-00-5	mg/kg	54	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Trichloroethene	79-01-6	mg/kg	7.7	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Trichlorofluoromethane	75-69-4	mg/kg	23000	<0.0578	<0.0618	<0.0542	<0.0533	<0.0576	<0.0488	<0.0629	<0.0618	NA	<0.0501
1,2,3-Trichloropropane	96-18-4	mg/kg	0.44	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,2,4-Trimethylbenzene	95-63-6	mg/kg	3800	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3800	<0.0144	<0.0155	<0.0135	<0.0133	<0.0144	<0.0122	<0.0157	<0.0154	NA	<0.0125
Vinyl chloride	75-01-4	mg/kg	2.1	<0.0433	<0.0464	<0.0406	<0.0400	<0.0432	<0.0366	<0.0472	<0.0463	NA	<0.0376
Xylenes, Total	1330-20-7	mg/kg	15000	<0.0433	<0.0464	<0.0406	<0.0400	<0.0432	<0.0366	<0.0472	<0.0463	NA	<0.0376
General Chemistry (By 7196A)													
Chromium, hexavalent	18540-29-9	mg/kg	210	<1.16	<1.36	<1.20	<1.17	<1.24	<1.12	3.56	<1.27		<1.10
Chromium, trivalent	16065-83-1	mg/kg	97000	17.9	20.3	11.5	81.2	16.7	9.7	26.4	45.3		14.6
General Chemistry (By 9045D - Dissolved)													
pH Dissolved		su	NA	8.56	8.03	8.06	7.77	8.62	7.46	7.56	8		6.84

Analytical Results - Floor Samples
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Montpelier, Iowa

Sample Location:				NAP-11	NAP-12	NAP-13	NAP-14	NAP-15	NAP-16	NAP-17	SAP-1	SAP-1A	SAP-2
Sample ID:				310-37426-6	310-37426-7	310-37426-8	310-37426-9	310-37426-10	310-37426-11	310-37426-12	310-40125-1	310-42229-13	310-40125-2
Sample Date:				8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	9/29/2014	10/23/2014	9/29/2014
Parameters	**CAS**	**Units**	**SWS (Soil)**										
Metals (By 6010C)													
Arsenic	7440-38-2	mg/kg	17	<12.1	<13.3	<12.2	<10.4	<11.7	<8.97	<12.6	**30.7**	<7.72	<4.10
Barium	7440-39-3	mg/kg	15000	78.2	94.5	54.6	98	74.9	45.4	152	161	54.3	157
Beryllium	7440-41-7	mg/kg	110	<1.51	<1.67	<1.53	<1.29	<1.47	<1.12	<1.58	5.35	1.08	1.15
Cadmium	7440-43-9	mg/kg	70	<3.02	<3.33	<3.06	<2.59	<2.94	<2.24	<3.15	2.77	<1.93	<1.03
Chromium	7440-47-3	mg/kg	NA	17.9	20.3	11.5	81.2	16.7	9.7	29.9	45.3	NA	14.6
Cobalt	7440-48-4	mg/kg	31	5.57	6.22	4.61	7.07	5	3.87	7.13	14.4	5.34	6.67
Copper	7440-50-8	mg/kg	15000	11.2	13.4	6.9	42.1	12.4	5.66	20.7	37.2	12.7	10.9
Iron	7439-89-6	mg/kg	NA	15300	20600	11800	39700	16500	8120	24200	37500	19600	13500
Lead	7439-92-1	mg/kg	400	<15.1	<16.7	<15.3	<12.9	<14.7	<11.2	<15.8	39.2	<9.65	6.17
Magnesium	7439-95-4	mg/kg	NA	19300	5350	4930	9900	13200	914	4790	3090	3460	1920
Manganese	7439-96-5	mg/kg	10000	316	384	464	1350	334	398	677	275	330	688
Selenium	7782-49-2	mg/kg	390	<22.6	<25.0	<23.0	<19.4	<22.0	<16.8	<23.7	<19.5	<14.5	<7.70
Silver	7440-22-4	mg/kg	370	<3.02	<3.33	<3.06	<2.59	<2.94	<2.24	<3.15	<2.61	<1.93	<1.03
Zinc	7440-66-6	mg/kg	23000	31.9	47	39.2	340	31	18.1	51.2	144	37.9	38.5
Metals (By 7471B)													
Mercury	7439-97-6	mg/kg	23	<0.0234	<0.0240	0.0326	0.163	<0.0230	<0.0211	<0.0262	0.0411	NA	<0.0237

Analytical Results - Floor Samples
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Montpelier, Iowa

Sample Location:				SAP-3	SAP-4	SAP-5	SAP-6	SAP-7	SAP-8	SAP-9	SAP-10	SAP-11	SAP-12
Sample ID:				310-40125-3	310-40125-4	310-40125-5	310-40125-6	310-40125-7	310-40125-8	310-42229-7	310-42229-8	310-42229-9	310-42229-10
Sample Date:				9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	10/23/2014	10/23/2014	10/23/2014	10/23/2014
Parameters	**CAS**	**Units**	**SWS (Soil)**										
GC/MS Semi VOA (By 8270D SIM)													
Acenaphthene	83-32-9	mg/kg	3400	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Acenaphthylene	208-96-8	mg/kg	1700	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Anthracene	120-12-7	mg/kg	17000	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Benzo[a]anthracene	56-55-3	mg/kg	3.1	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Benzo[a]pyrene	50-32-8	mg/kg	0.31	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Benzo[b]fluoranthene	205-99-2	mg/kg	3.1	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Benzo[g,h,i]perylene	191-24-2	mg/kg	170	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Benzo[k]fluoranthene	207-08-9	mg/kg	31	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Chrysene	218-01-9	mg/kg	310	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.31	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Fluoranthene	206-44-0	mg/kg	2300	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Fluorene	86-73-7	mg/kg	2300	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	3.1	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	mg/kg	240	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Phenanthrene	85-01-8	mg/kg	1700	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Pyrene	129-00-0	mg/kg	1700	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
Naphthalene	91-20-3	mg/kg	1100	<0.0119	<0.00994	<0.125	<0.0138	<0.0136	<0.0137	NA	NA	NA	NA
GC/MS VOA (By 8260C)													
Acetone	67-64-1	mg/kg	68000	<0.123	<0.115	<0.144	<0.145	<0.138	<0.153	<0.163	<0.150	<0.154	<0.165
Benzene	71-43-2	mg/kg	88	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Bromobenzene	108-86-1	mg/kg	NA	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Bromochloromethane	74-97-5	mg/kg	760	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Bromodichloromethane	75-27-4	mg/kg	50	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Bromoform	75-25-2	mg/kg	390	<0.0246	<0.0229	<0.0289	<0.0289	<0.0277	<0.0305	<0.0327	<0.0300	<0.0309	<0.0329
Bromomethane	74-83-9	mg/kg	110	<0.0491	<0.0459	<0.0577	<0.0579	<0.0554	<0.0611	<0.0653	<0.0600	<0.0618	<0.0659
2-Butanone (MEK)	78-93-3	mg/kg	46000	<0.123	<0.115	<0.144	<0.145	<0.138	<0.153	<0.163	<0.150	<0.154	<0.165
n-Butylbenzene	104-51-8	mg/kg	23000	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
sec-Butylbenzene	135-98-8	mg/kg	NA	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
tert-Butylbenzene	98-06-6	mg/kg	NA	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Carbon disulfide	75-15-0	mg/kg	7600	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Carbon tetrachloride	56-23-5	mg/kg	24	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Chlorobenzene	108-90-7	mg/kg	1500	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Chlorodibromomethane	124-48-1	mg/kg	150	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Chloroethane	75-00-3	mg/kg	30000	<0.0491	<0.0459	<0.0577	<0.0579	<0.0554	<0.0611	<0.0653	<0.0600	<0.0618	<0.0659
Chloroform	67-66-3	mg/kg	510	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Chloromethane	74-87-3	mg/kg	240	<0.0491	<0.0459	<0.0577	<0.0579	<0.0554	<0.0611	<0.0653	<0.0600	<0.0618	<0.0659
2-Chlorotoluene	95-49-8	mg/kg	1500	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
4-Chlorotoluene	106-43-4	mg/kg	1500	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,2-Dibromo-3-Chloropropane	96-12-8	mg/kg	2.2	<0.123	<0.115	<0.144	<0.145	<0.138	<0.153	<0.163	<0.150	<0.154	<0.165
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	1.5	<0.123	<0.115	<0.144	<0.145	<0.138	<0.153	<0.163	<0.150	<0.154	<0.165
Dibromomethane	74-95-3	mg/kg	760	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,2-Dichlorobenzene	95-50-1	mg/kg	5500	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,3-Dichlorobenzene	541-73-1	mg/kg	5500	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,4-Dichlorobenzene	106-46-7	mg/kg	610	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Dichlorodifluoromethane	75-71-8	mg/kg	15000	<0.0369	<0.0344	<0.0433	<0.0434	<0.0415	<0.0458	<0.0490	<0.0450	<0.0463	<0.0494
1,1-Dichloroethane	75-34-3	mg/kg	15000	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,2-Dichloroethane	107-06-2	mg/kg	34	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165

Analytical Results - Floor Samples
Fair Station Former North and South Ash Ponds
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Sample Location:				**SAP-3**	**SAP-4**	**SAP-5**	**SAP-6**	**SAP-7**	**SAP-8**	**SAP-9**	**SAP-10**	**SAP-11**	**SAP-12**
Sample ID:				**310-40125-3**	**310-40125-4**	**310-40125-5**	**310-40125-6**	**310-40125-7**	**310-40125-8**	**310-42229-7**	**310-42229-8**	**310-42229-9**	**310-42229-10**
Sample Date:				**9/29/2014**	**9/29/2014**	**9/29/2014**	**9/29/2014**	**9/29/2014**	**9/29/2014**	**10/23/2014**	**10/23/2014**	**10/23/2014**	**10/23/2014**
Parameters	**CAS**	**Units**	**SWS (Soil)**										
1,1-Dichloroethene	75-35-4	mg/kg	380	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
cis-1,2-Dichloroethene	156-59-2	mg/kg	760	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
trans-1,2-Dichloroethene	156-60-5	mg/kg	1500	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,2-Dichloropropane	78-87-5	mg/kg	46	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,3-Dichloropropane	142-28-9	mg/kg	NA	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
2,2-Dichloropropane	594-20-7	mg/kg	NA	<0.0491	<0.0459	<0.0577	<0.0579	<0.0554	<0.0611	<0.0653	<0.0600	<0.0618	<0.0659
1,1-Dichloropropene	563-58-6	mg/kg	NA	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NA	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NA	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Ethylbenzene	100-41-4	mg/kg	7600	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Hexachlorobutadiene	87-68-3	mg/kg	31	<0.0614	<0.0573	<0.0721	<0.0724	<0.0692	<0.0764	<0.0817	<0.0750	<0.0772	<0.0823
Hexane	110-54-3	mg/kg	4600	<0.0614	<0.0573	<0.0721	<0.0724	<0.0692	<0.0764	<0.0817	<0.0750	<0.0772	<0.0823
Isopropylbenzene	98-82-8	mg/kg	7600	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
p-Isopropyltoluene	99-87-6	mg/kg	NA	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Methylene Chloride	75-09-2	mg/kg	410	<0.123	<0.115	<0.144	<0.145	<0.138	<0.153	<0.163	<0.150	<0.154	<0.165
Methyl tert-butyl ether	1634-04-4	mg/kg	2300	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Naphthalene	91-20-3	mg/kg	1100	<0.0614	<0.0573	<0.0721	<0.0724	<0.0692	<0.0764	<0.0817	<0.0750	<0.0772	<0.0823
N-Propylbenzene	103-65-1	mg/kg	7600	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Styrene	100-42-5	mg/kg	15000	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	230	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	15	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Tetrachloroethene	127-18-4	mg/kg	5.7	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Toluene	108-88-3	mg/kg	6100	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NA	<0.0614	<0.0573	<0.0721	<0.0724	<0.0692	<0.0764	<0.0817	<0.0750	<0.0772	<0.0823
1,2,4-Trichlorobenzene	120-82-1	mg/kg	760	<0.0614	<0.0573	<0.0721	<0.0724	<0.0692	<0.0764	<0.0817	<0.0750	<0.0772	<0.0823
1,1,1-Trichloroethane	71-55-6	mg/kg	150000	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,1,2-Trichloroethane	79-00-5	mg/kg	54	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Trichloroethene	79-01-6	mg/kg	7.7	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Trichlorofluoromethane	75-69-4	mg/kg	23000	<0.0491	<0.0459	<0.0577	<0.0579	<0.0554	<0.0611	<0.0653	<0.0600	<0.0618	<0.0659
1,2,3-Trichloropropane	96-18-4	mg/kg	0.44	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,2,4-Trimethylbenzene	95-63-6	mg/kg	3800	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3800	<0.0123	<0.0115	<0.0144	<0.0145	<0.0138	<0.0153	<0.0163	<0.0150	<0.0154	<0.0165
Vinyl chloride	75-01-4	mg/kg	2.1	<0.0369	<0.0344	<0.0433	<0.0434	<0.0415	<0.0458	<0.0490	<0.0450	<0.0463	<0.0494
Xylenes, Total	1330-20-7	mg/kg	15000	<0.0369	<0.0344	<0.0433	<0.0434	<0.0415	<0.0458	<0.0490	<0.0450	<0.0463	<0.0494
General Chemistry (By 7196A)													
Chromium, hexavalent	18540-29-9	mg/kg	210	<1.13	<1.00	<1.23	<1.42	<1.34	<13.7	<1.15	<1.27	<1.27	<1.29
Chromium, trivalent	16065-83-1	mg/kg	97000	38	13.3	39.2	50.7	49.5	55.1	45	46	52.5	32.9
General Chemistry (By 9045D - Dissolved)													
pH Dissolved		su	NA	8.17	7.54	8.44	7.28	7.6	7.18	7.71	7.66	8.1	8.22

Analytical Results - Floor Samples
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Sample Location:				SAP-3	SAP-4	SAP-5	SAP-6	SAP-7	SAP-8	SAP-9	SAP-10	SAP-11	SAP-12
Sample ID:				310-40125-3	310-40125-4	310-40125-5	310-40125-6	310-40125-7	310-40125-8	310-42229-7	310-42229-8	310-42229-9	310-42229-10
Sample Date:				9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	10/23/2014	10/23/2014	10/23/2014	10/23/2014
Parameters	**CAS**	**Units**	**SWS (Soil)**										
Metals (By 6010C)													
Arsenic	7440-38-2	mg/kg	17	<9.04	<6.62	<8.94	<12.4	<15.7	<13.3	11.1	<8.83	14.2	<9.66
Barium	7440-39-3	mg/kg	15000	148	78.4	183	193	299	282	211	187	210	123
Beryllium	7440-41-7	mg/kg	110	2.65	1.76	2.19	<1.56	3.65	3.56	<0.940	<1.10	<1.09	<1.21
Cadmium	7440-43-9	mg/kg	70	<2.26	<1.65	<2.23	<3.11	<3.93	<3.33	<1.88	<2.21	<2.18	<2.41
Chromium	7440-47-3	mg/kg	NA	38	13.3	39.2	50.7	49.5	55.1	45	46	52.5	32.9
Cobalt	7440-48-4	mg/kg	31	7.21	7.14	13.2	11.2	16.6	19.3	18.7	17.9	16.9	10.1
Copper	7440-50-8	mg/kg	15000	24.5	9.54	25.9	38.8	37.5	53.4	36.6	43.3	45.4	29.2
Iron	7439-89-6	mg/kg	NA	25600	19700	27900	36300	37500	44300	33000	31400	40800	27900
Lead	7439-92-1	mg/kg	400	<11.3	<8.27	<11.2	<15.6	<19.7	<16.6	<9.40	<11.0	<10.9	<12.1
Magnesium	7439-95-4	mg/kg	NA	4920	1900	7460	11000	11700	13000	11400	11300	13800	7750
Manganese	7439-96-5	mg/kg	10000	597	877	807	335	1270	1230	934	650	429	259
Selenium	7782-49-2	mg/kg	390	<17.0	<12.4	<16.8	<23.3	<29.5	<24.9	<14.1	<16.5	<16.3	<18.1
Silver	7440-22-4	mg/kg	370	<2.26	<1.65	<2.23	<3.11	<3.93	<3.33	<1.88	<2.21	<2.18	<2.41
Zinc	7440-66-6	mg/kg	23000	55.3	38.2	63.3	66.9	67.7	73.5	75.2	78.3	83.9	61.3
Metals (By 7471B)													
Mercury	7439-97-6	mg/kg	23	0.0266	0.0287	0.0376	0.0273	<0.0260	<0.0263	<0.0262	<0.0239	<0.0284	<0.0235

Analytical Results - Floor Samples
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Sample Location:				SAP-13	SAP-14	SAP-15	SAP-16	SAP-17	SAP-18	SAP-19	SAP-20
Sample ID:				310-42229-11	310-42229-12	310-42229-14	310-42382-1	310-42382-2	310-42382-3	310-42382-4	310-42382-5
Sample Date:				10/23/2014	10/23/2014	10/23/2014	10/27/2014	10/27/2014	10/27/2014	10/27/2014	10/27/2014
Parameters	**CAS**	**Units**	**SWS (Soil)**								
GC/MS Semi VOA (By 8270D SIM)											
Acenaphthene	83-32-9	mg/kg	3400	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Acenaphthylene	208-96-8	mg/kg	1700	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Anthracene	120-12-7	mg/kg	17000	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Benzo[a]anthracene	56-55-3	mg/kg	3.1	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Benzo[a]pyrene	50-32-8	mg/kg	0.31	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Benzo[b]fluoranthene	205-99-2	mg/kg	3.1	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Benzo[g,h,i]perylene	191-24-2	mg/kg	170	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Benzo[k]fluoranthene	207-08-9	mg/kg	31	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Chrysene	218-01-9	mg/kg	310	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.31	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Fluoranthene	206-44-0	mg/kg	2300	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Fluorene	86-73-7	mg/kg	2300	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	3.1	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
2-Methylnaphthalene	91-57-6	mg/kg	240	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Phenanthrene	85-01-8	mg/kg	1700	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Pyrene	129-00-0	mg/kg	1700	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
Naphthalene	91-20-3	mg/kg	1100	NA	NA	NA	<0.0112	<0.0113	<0.0112	<0.0124	<0.0124
GC/MS VOA (By 8260C)											
Acetone	67-64-1	mg/kg	68000	<0.157	<0.152	<0.151	<0.144	<0.137	<0.134	<0.134	<0.159
Benzene	71-43-2	mg/kg	88	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Bromobenzene	108-86-1	mg/kg	NA	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Bromochloromethane	74-97-5	mg/kg	760	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Bromodichloromethane	75-27-4	mg/kg	50	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Bromoform	75-25-2	mg/kg	390	<0.0314	<0.0305	<0.0302	<0.0288	<0.0273	<0.0267	<0.0269	<0.0319
Bromomethane	74-83-9	mg/kg	110	<0.0627	<0.0610	<0.0604	<0.0577	<0.0547	<0.0534	<0.0537	<0.0637
2-Butanone (MEK)	78-93-3	mg/kg	46000	<0.157	<0.152	<0.151	<0.144	<0.137	<0.134	<0.134	<0.159
n-Butylbenzene	104-51-8	mg/kg	23000	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
sec-Butylbenzene	135-98-8	mg/kg	NA	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
tert-Butylbenzene	98-06-6	mg/kg	NA	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Carbon disulfide	75-15-0	mg/kg	7600	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Carbon tetrachloride	56-23-5	mg/kg	24	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Chlorobenzene	108-90-7	mg/kg	1500	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Chlorodibromomethane	124-48-1	mg/kg	150	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Chloroethane	75-00-3	mg/kg	30000	<0.0627	<0.0610	<0.0604	<0.0577	<0.0547	<0.0534	<0.0537	<0.0637
Chloroform	67-66-3	mg/kg	510	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Chloromethane	74-87-3	mg/kg	240	<0.0627	<0.0610	<0.0604	<0.0577	<0.0547	<0.0534	<0.0537	<0.0637
2-Chlorotoluene	95-49-8	mg/kg	1500	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
4-Chlorotoluene	106-43-4	mg/kg	1500	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,2-Dibromo-3-Chloropropane	96-12-8	mg/kg	2.2	<0.157	<0.152	<0.151	<0.144	<0.137	<0.134	<0.134	<0.159
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	1.5	<0.157	<0.152	<0.151	<0.144	<0.137	<0.134	<0.134	<0.159
Dibromomethane	74-95-3	mg/kg	760	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,2-Dichlorobenzene	95-50-1	mg/kg	5500	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,3-Dichlorobenzene	541-73-1	mg/kg	5500	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,4-Dichlorobenzene	106-46-7	mg/kg	610	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Dichlorodifluoromethane	75-71-8	mg/kg	15000	<0.0470	<0.0457	<0.0453	<0.0433	<0.0410	<0.0401	<0.0403	<0.0478
1,1-Dichloroethane	75-34-3	mg/kg	15000	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,2-Dichloroethane	107-06-2	mg/kg	34	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159

Analytical Results - Floor Samples
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Sample Location:				**SAP-13**	**SAP-14**	**SAP-15**	**SAP-16**	**SAP-17**	**SAP-18**	**SAP-19**	**SAP-20**
Sample ID:				**310-42229-11**	**310-42229-12**	**310-42229-14**	**310-42382-1**	**310-42382-2**	**310-42382-3**	**310-42382-4**	**310-42382-5**
Sample Date:				**10/23/2014**	**10/23/2014**	**10/23/2014**	**10/27/2014**	**10/27/2014**	**10/27/2014**	**10/27/2014**	**10/27/2014**
Parameters	**CAS**	**Units**	**SWS (Soil)**								
1,1-Dichloroethene	75-35-4	mg/kg	380	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
cis-1,2-Dichloroethene	156-59-2	mg/kg	760	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
trans-1,2-Dichloroethene	156-60-5	mg/kg	1500	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,2-Dichloropropane	78-87-5	mg/kg	46	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,3-Dichloropropane	142-28-9	mg/kg	NA	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
2,2-Dichloropropane	594-20-7	mg/kg	NA	<0.0627	<0.0610	<0.0604	<0.0577	<0.0547	<0.0534	<0.0537	<0.0637
1,1-Dichloropropene	563-58-6	mg/kg	NA	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NA	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NA	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Ethylbenzene	100-41-4	mg/kg	7600	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Hexachlorobutadiene	87-68-3	mg/kg	31	<0.0784	<0.0762	<0.0755	<0.0721	<0.0683	<0.0668	<0.0671	<0.0796
Hexane	110-54-3	mg/kg	4600	<0.0784	<0.0762	<0.0755	<0.0721	<0.0683	<0.0668	<0.0671	<0.0796
Isopropylbenzene	98-82-8	mg/kg	7600	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
p-Isopropyltoluene	99-87-6	mg/kg	NA	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Methylene Chloride	75-09-2	mg/kg	410	<0.157	<0.152	<0.151	<0.144	<0.137	<0.134	<0.134	<0.159
Methyl tert-butyl ether	1634-04-4	mg/kg	2300	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Naphthalene	91-20-3	mg/kg	1100	<0.0784	<0.0762	<0.0755	<0.0721	<0.0683	<0.0668	<0.0671	<0.0796
N-Propylbenzene	103-65-1	mg/kg	7600	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Styrene	100-42-5	mg/kg	15000	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	230	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	15	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Tetrachloroethene	127-18-4	mg/kg	5.7	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Toluene	108-88-3	mg/kg	6100	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NA	<0.0784	<0.0762	<0.0755	<0.0721	<0.0683	<0.0668	<0.0671	<0.0796
1,2,4-Trichlorobenzene	120-82-1	mg/kg	760	<0.0784	<0.0762	<0.0755	<0.0721	<0.0683	<0.0668	<0.0671	<0.0796
1,1,1-Trichloroethane	71-55-6	mg/kg	150000	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,1,2-Trichloroethane	79-00-5	mg/kg	54	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Trichloroethene	79-01-6	mg/kg	7.7	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Trichlorofluoromethane	75-69-4	mg/kg	23000	<0.0627	<0.0610	<0.0604	<0.0577	<0.0547	<0.0534	<0.0537	<0.0637
1,2,3-Trichloropropane	96-18-4	mg/kg	0.44	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,2,4-Trimethylbenzene	95-63-6	mg/kg	3800	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3800	<0.0157	<0.0152	<0.0151	<0.0144	<0.0137	<0.0134	<0.0134	<0.0159
Vinyl chloride	75-01-4	mg/kg	2.1	<0.0470	<0.0457	<0.0453	<0.0433	<0.0410	<0.0401	<0.0403	<0.0478
Xylenes, Total	1330-20-7	mg/kg	15000	<0.0470	<0.0457	<0.0453	<0.0433	<0.0410	<0.0401	<0.0403	<0.0478
General Chemistry (By 7196A)											
Chromium, hexavalent	18540-29-9	mg/kg	210	<1.21	<1.31	<1.20	<1.06	<1.09	<1.17	<1.24	<1.19
Chromium, trivalent	16065-83-1	mg/kg	97000	45.5	56.8	53.1	15.4	16.1	11.6	21.7	22
General Chemistry (By 9045D - Dissolved)											
pH Dissolved		su	NA	7.45	7.5	7.73	9.29	10.2	10.6	8.91	8.1

Analytical Results - Floor Samples
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Sample Location:				**SAP-13**	**SAP-14**	**SAP-15**	**SAP-16**	**SAP-17**	**SAP-18**	**SAP-19**	**SAP-20**
Sample ID:				**310-42229-11**	**310-42229-12**	**310-42229-14**	**310-42382-1**	**310-42382-2**	**310-42382-3**	**310-42382-4**	**310-42382-5**
Sample Date:				**10/23/2014**	**10/23/2014**	**10/23/2014**	**10/27/2014**	**10/27/2014**	**10/27/2014**	**10/27/2014**	**10/27/2014**
Parameters	**CAS**	**Units**	**SWS (Soil)**								
Metals (By 6010C)											
Arsenic	7440-38-2	mg/kg	17	14.7	<8.57	<10.3	<4.03	7.37	<3.92	5.4	<8.26
Barium	7440-39-3	mg/kg	15000	268	269	322	45.1	57.8	41.4	92	151
Beryllium	7440-41-7	mg/kg	110	<1.12	3.12	<1.29	0.764	0.619	<0.490	0.912	1.21
Cadmium	7440-43-9	mg/kg	70	<2.25	<2.14	<2.57	<1.01	<1.04	<0.980	<1.12	<2.06
Chromium	7440-47-3	mg/kg	NA	45.5	56.8	53.1	15.4	16.1	11.6	21.7	22
Cobalt	7440-48-4	mg/kg	31	20.2	15.8	16.3	6.57	5.86	4.56	5.95	7.22
Copper	7440-50-8	mg/kg	15000	45.7	55.1	36.9	14.1	12.3	9.23	17.4	20.7
Iron	7439-89-6	mg/kg	NA	37800	47600	43300	15600	13900	13200	16300	28000
Lead	7439-92-1	mg/kg	400	<11.2	<10.7	<12.9	<5.04	<5.21	<4.90	7.49	<10.3
Magnesium	7439-95-4	mg/kg	NA	11800	12800	11700	2530	2150	1650	2290	2610
Manganese	7439-96-5	mg/kg	10000	1880	656	2340	247	338	336	353	379
Selenium	7782-49-2	mg/kg	390	<16.9	<16.1	<19.3	<7.56	<7.81	<7.35	<8.44	<15.5
Silver	7440-22-4	mg/kg	370	<2.25	<2.14	<2.57	<1.01	<1.04	<0.980	<1.12	<2.06
Zinc	7440-66-6	mg/kg	23000	73.9	81.2	74.2	27.5	21.5	18.9	54.5	95.4
Metals (By 7471B)											
Mercury	7439-97-6	mg/kg	23	<0.0242	<0.0272	<0.0270	<0.0209	<0.0219	<0.0226	0.0304	0.0373

Notes:
30.7 - Bold text in sample results indicate exceedance of SWS
NAP - North Ash Pond
SAP - South Ash Pond
mg/kg - milligrams per kilogram
NAP - Not Analyzed

Appendix B

Photographs During Closure

Photograph 1 | South Ash Pond during excavation, looking southeast. The dark material is CCR. | August 19, 2014

Photograph 2 | North Ash Pond with stormwater after majority of CCR removed. Native brown soils are observed around the perimeter and floor. View is looking west. | August 29, 2014

Appendix B – Ash Pond Photographs During Closure

Photograph 3 | South Ash Pond after excavation was complete. Native soils in dark brown to light brown observed around perimeter and the floor. Viewed looking northwest. | October 22, 2014

Photograph 4 | Dewatering during backfilling of the South Ash Pond, looking south. The water was removed to ensure placement and compaction of the backfill. | April 7, 2015

Appendix B – Ash Pond Photographs During Closure

Photograph 5 | Backfilling of the South Ash Pond, looking east-southeast. View is to the east of Photograph 4 location. | April 7, 2015

Photograph 6 | Former ash pond area with spring grass growth, looking west. | May 19, 2015

Appendix B – Ash Pond Photographs During Closure


GHD