NATURAL RESOURCE TECHNOLOGY

Mr. Brian Delcorio
Midwest Generation, LLC
Joliet Generating Station, Units 7/8
1800 Channahon Road
Joliet, IL 60436

December 23, 2008
(1862)

RE: Construction Documentation Transmittal
Ash Impoundment #1 and #2 Liner Replacement

Dear Mr. Delcorio:

Enclosed with this correspondence are construction record documents related to replacement of the liners in Ash Impoundments #1 and #2 at Joliet 29. Construction began on Impoundment #2 in early April 2008. Following Impoundment #2 construction, Impoundment #1 was dewatered and dredged. Liner replacement construction on Impoundment #1 began in late August 2008. The following information is enclosed:

- Select submittals from Contractor;

Attachment	Submittal Item # on Table 2[1]	Submittal Description
A1	10	Warning Layer and Cushion Layer Gradation Reports
A2	11	Geomembrane Resin Test Results
A3	21	Geosynthetic Product Information
A4	24	Geomembrane Installer's Daily Logs and QC Documentation (Impoundment #1 and #2)
A5	25	Geomembrane Installer's Subgrade Acceptance (Impoundment #1 and #2)
A6	26	Geomembrane Installation Certificate (Impoundment #1 and #2)
A7	26	Geomembrane Installation Warranties
A8	26	Geomembrane As-Built Panel Layout (Impoundment #1 and #2)
A9	31	Leak Location Survey Report (Impoundment #1and #2)

- Field Directives #1 and #2 (Attachment B);
- Drawings for both impoundments updated to reflect Contractor's documentation survey of the location of anchor trench alignment and marker posts, and topography of the warning layer (Attachment C);
- Natural Resource Technology, Inc. (NRT) Construction Quality Assurance (CQA) Daily Field Reports (Attachment D); and
- Record drawing containing liner details and sections (Sheet C031).

EXHIBIT 610

[1] Refer to Table 2 – List of Submittals from Specification No. 20007575

If you have any questions or comments pertaining to this transmittal, please feel free to contact us. It has been a pleasure working with you on this project, and we look forward to working with you again in the future.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

Heather M. Simon, PE
Project Engineer

Eric J. Tlachac, PE
Project Manager

Encls.: Attachment A: Contractor Submittals
Attachment B: Field Directives Attachment C: Ash Impoundment #1 and #2 Documentation Survey
Attachment D: NRT CQA Daily Field Reports
Sheet C031 – Details and Sections

cc: Ms. Maria Race (w/o attachments)

[1862 Construction Documentation 081223.doc]

ATTACHMENT A

CONTRACTOR SUBMITTALS

ATTACHMENT A1

WARNING LAYER AND CUSHION LAYER GRADATION REPORTS

LAFARGE
AGGREGATES & CONCRETE

Quality Test Report

Plant 30260-Joliet
Product CA-6-042CM06
Specification IDOT MODIFIED CM06 Spec

1641306362

Sample Information

Sample No 1641306362
Date Sampled 03/26/2008 10:30
Date Completed 03/27/2008 10:30
Sampled By Ken Sierzega
Tested By Ken Sierzega
Type Shipping
Method Bucket Blend/Sam Pad
Location
Process MAIN IDOT
Ledge Underground Bench
Other

Weather
Temp
Split Sample ☐ Sequence
Resample ☐ Code
Borehole
Depth Top/Bottom

Test Note

Gradation Results

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure
g	6317.00	6203.00	5643.00	1.8	9.0	

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
1 1/2" (37.5mm)	0.0	0.0	0	0	100		100-100	
1" (25mm)	528.0	528.0	8	8	92		90-100	
3/4" (19mm)	619.0	1147.0	10	18	82			
5/8" (16mm)	520.0	1667.0	8	27	73			
1/2" (12.5mm)	475.0	2142.0	8	35	65		60-90	
3/8" (9.5mm)	498.0	2636.0	8	43	57			
1/4" (6.3mm)	517.0	3155.0	8	51	49			
#4 (4.75mm)	284.0	3439.0	5	55	45		30-56	
#8 (2.36mm)	669.0	4108.0	11	66	34			
#16 (1.18mm)	473.0	4581.0	8	74	26		10-40	
#40 (0.425mm)	419.0	5000.0	7	81	19			
#200 (75um)	593.0	5593.0	9.6	90.2	9.8		4-12	
PAN (0um)	45.0	5638.0	9.8	100.0	0.0			

Other Test Results

Test Name	Date / Procedure	Result / Lab	Unit	Target	Specification / Tested By	Comment
FM	03/27/2008 10:30	5.57 Joliet			Ken Sierzega	
Grad Loss %	03/27/2008 10:30	0.081 Joliet	%		Ken Sierzega	
Wash Loss %	03/27/2008 10:30	9.0 Joliet	%		Ken Sierzega	

LAFARGE
AGGREGATES
& CONCRETE

Quality Test Report

Plant 30260-Joliet
Product Stone Sand-013FM05
Specification 013FM05

1635349963

Sample Information

Sample No 1635349963
Date Sampled 03/26/2008 08:29
Date Completed 03/27/2008 08:29
Sampled By Ken Sierzega
Tested By Ken Sierzega
Type Shipping
Method Bucket Blend/Sam Pad
Location
Process MAIN IDOT
Ledge Underground Bench
Other

Weather
Temp
Split Sample ☐
Resample ☐
Borehole
Depth Top/Bottom

Sequence
Code

Test Note

Gradation Results

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure
g	805.30	769.70	640.20	4.6	16.8	

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
3/8" (9.5mm)	0.0	0.0	0	0	100		100	
#4 (4.75mm)	18.5	18.5	2	2	98		84-100	
#8 (2.36mm)	142.3	160.8	19	21	79			
#16 (1.18mm)	181.1	341.9	24	45	55			
#30 (0.6mm)	116.1	458.0	15	60	40			
#50 (0.3mm)	77.2	535.2	10	70	30			
#100 (0.15mm)	50.6	585.8	7	76	24		0-40	
#200 (75um)	41.2	627.0	5.4	81.7	18.3		0-30	
PAN (0um)	11.5	638.5	18.3	100.0	0.0			

ATTACHMENT A2

GEOMEMBRANE RESIN TEST RESULTS

CoA Date: 08/23/2007

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC: HC 19103 GUNDLE ROAD WESTFIELD TX 77090 USA	CPC Delivery #: 87473726 PO #: 40932 Weight: 188900 LB Ship Date: 08/23/2007 Package: BULK
Recipient: Phouangsavanh Fax:	Mode: Hopper Car Car #: PSPX009173 Seal No: 235847

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8271106

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	9.8	g/10mi
Density	ASTM D1505	0.937	g/cm3
Production Date		07/22/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Paul S. Newbold
Quality Systems Coordinator

For CoA questions contact Tom Scheirman at 832-813-4637

MWG13-15_49369

CoA Date: 08/23/2007

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC: HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87473728
PO #: 40932
Weight: 192500 LB
Ship Date: 08/23/2007
Package: BULK
Mode: Hopper Car
Car #: PSPX005936
Seal No: 235760

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8271118

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	12.9	g/10mi
Density	ASTM D1505	0.937	g/cm3
Production Date		07/25/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Paul S. Newbold
Quality Systems Coordinator

For CoA questions contact Tom Scheirman at 832-813-4637

MWG13-15_49370

CoA Date: 08/23/2007

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC: HC 19103 GUNDLE ROAD WESTFIELD TX 77090 USA	CPC Delivery #: 87473728 PO #: 40932 Weight: 192500 LB Ship Date: 08/23/2007 Package: BULK
Recipient: Phouangsavanh Fax:	Mode: Hopper Car Car #: PSPX005936 Seal No: 235760

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8271118

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	12.9	g/10mi
Density	ASTM D1505	0.937	g/cm3
Production Date		07/25/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Paul S. Newbold
Quality Systems Coordinator

For CoA questions contact Tom Scheirman at 832-813-4637

MWG13-15_49371

1

CoA Date: 08/27/2007

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC: HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87476502
PO #: 40931
Weight: 191700 LB
Ship Date: 08/27/2007
Package: BULK
Mode: Hopper Car
Car #: PSPX002351
Seal No: 235617

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8271154

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	11.9	g/10mi
Density	ASTM D1505	0.937	g/cm3
Production Date		07/31/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Paul S. Newbold
Quality Systems Coordinator

For CoA questions contact Tom Scheirman at 832-813-4637

MWG13-15_49372

CoA Date: 08/27/2007

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC: HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87476504
PO #: 40931
Weight: 192500 LB
Ship Date: 08/27/2007
Package: BULK
Mode: Hopper Car
Car #: CHVX896642
Seal No: 235619

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8271157

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	12.4	g/10mi
Density	ASTM D1505	0.937	g/cm3
Production Date		07/31/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. **However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.**

Paul S. Newbold
Quality Systems Coordinator

For CoA questions contact Tom Scheirman at 832-813-4637

MWG13-15_49373

CoA Date: 08/29/2007

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC: HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavenh
Fax:

CPC Delivery #: 87477809
PO #: 40931
Weight: 190000 LB
Ship Date: 08/29/2007
Package: BULK
Mode: Hopper Car
Car #: GOCX058423
Seal No: 235771

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8271162

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	12.1	g/10mi
Density	ASTM D1505	0.936	g/cm3
Production Date		08/02/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Paul S. Newbold
Quality Systems Coordinator

For CoA questions contact Tom Scheirman at 832-813-4637

MWG13-15_49374

Chevron Phillips

CoA Date: 11/20/2007

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC: HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87535160
PO #: 40931
Weight: 188700 LB
Ship Date: 11/20/2007
Package: BULK
Mode: Hopper Car
Car #: CHVX893140
Seal No: 246044

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8271744

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	10.7	g/10mi
Density	ASTM D1505	0.936	g/cm3
Production Date		11/18/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. **However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.**

Paul S. Newbold
Quality Systems Coordinator

For CoA questions contact Tom Scheirman at 832-813-4637

MWG13-15_49375

CoA Date: 11/20/2007

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC: HC 19103 GUNDLE ROAD WESTFIELD TX 77090 USA	CPC Delivery #: 87535163 PO #: 40931 Weight: 192400 LB Ship Date: 11/20/2007 Package: BULK
Recipient: Phouangsavanh Fax:	Mode: Hopper Car Car #: PSPX003065 Seal No: 245929

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8271747

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	11.2	g/10mi
Density	ASTM D1505	0.937	g/cm3
Production Date		11/19/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. **However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.**

Paul S. Newbold
Quality Systems Coordinator

For CoA questions contact Tom Scheirman at 832-813-4637

MWG13-15_49376

GSE Roll Allocation

Order 53376
Customer CAAWS
Site Midwest Generation LLC

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
104137147	8271106	HDT060A010	HDT060A010	8/31/2007	520
104137238	8271118	HDT060A010	HDT060A010	9/6/2007	520
104137263	8271154	HDT060A010	HDT060A010	9/8/2007	520
104137264	8271154	HDT060A010	HDT060A010	9/8/2007	520
104137340	8271157	HDT060A010	HDT060A010	9/13/2007	520
104137341	8271157	HDT060A010	HDT060A010	9/13/2007	520
104137342	8271157	HDT060A010	HDT060A010	9/13/2007	520
104137343	8271157	HDT060A010	HDT060A010	9/13/2007	520
104137344	8271157	HDT060A010	HDT060A010	9/13/2007	520
104137406	8271162	HDT060A010	HDT060A010	9/17/2007	520
104137407	8271162	HDT060A010	HDT060A010	9/17/2007	520
105136345	8271744	HDT060A010	HDT060A010	12/4/2007	520
105136346	8271744	HDT060A010	HDT060A010	12/4/2007	520
105136347	8271744	HDT060A010	HDT060A010	12/4/2007	520
105136353	8271744	HDT060A010	HDT060A010	12/4/2007	520
105136354	8271744	HDT060A010	HDT060A010	12/4/2007	520
105136356	8271744	HDT060A010	HDT060A010	12/5/2007	520
105136357	8271744	HDT060A010	HDT060A010	12/5/2007	520
105136358	8271744	HDT060A010	HDT060A010	12/5/2007	520
105136359	8271744	HDT060A010	HDT060A010	12/5/2007	520
105136360	8271744	HDT060A010	HDT060A010	12/5/2007	520
105136361	8271744	HDT060A010	HDT060A010	12/5/2007	520
105136362	8271744	HDT060A010	HDT060A010	12/5/2007	520
105136363	8271747	HDT060A010	HDT060A010	12/5/2007	520
105136364	8271747	HDT060A010	HDT060A010	12/5/2007	520
105136365	8271747	HDT060A010	HDT060A010	12/5/2007	520
105136367	8271747	HDT060A010	HDT060A010	12/5/2007	520
105136368	8271747	HDT060A010	HDT060A010	12/5/2007	520

ATTACHMENT A3

GEOSYNTHETIC PRODUCT INFORMATION

Submittal #20

GSE®

GSE Lining Technology, Inc.

19103 Gundle Road
Houston, Texas 77073
800-435-2008
281.230.6747

February 18, 2008

Matt Albert
Clean Air and Water Systems, LLC
123 Elm Street
Dousman, WI 53118

RE: Midwest Generation
Project No. 524244

Certification of Compliance

The undersigned, being qualified and authorized to do so, hereby certifies that GSE Lining Technologies Manufacturing Quality Assurance plan was fully implemented during production of the geosynthetic materials for the aforementioned project.

Sincerely,

Daniel Semanisin
GSE Technical Support Specialist

cc: Karen Dennison, GSE Lining Technology Inc.

GSE®

GSE Lining Technology, Inc.

LETTER OF TRANSMITTAL

Brian McKeown
Clean Air and Water Systems, LLC.
123 Elm Street
Dousman, WI 53118-0337

DATE: December 11, 2007
JOB NO: SO 53376
JOB NAME: Midwest Generation, LLC
RE: QC/QA Certificate

COPIES	DESCRIPTION
1	QC/QA-Documentation as per Bill of Lading # 72674 & 72671

TRANSMIT VIA:

U.S. Mail

If enclosures are not as noted kindly notify us at once.

SIGNED: Janet M Valadez
DATE: December 11, 2007

MWG13-15_49380

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at HOUSTON, TEXAS

Shippers No. 72671

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Roll Certifications Included

Date: 12/10/07

Branch Plant: 1500

Shipping Instructions:

Call 24 hours before delivery — Tedd Mills @ 815-521-0900

Sales Order: 53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1		1	EA	FREIGHTSHT001 DOM. SHIPPING CHARGE DOMESTIC SHEET NON TAXABLE	
2	105136353	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,973.00
3	105136356	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,920.00
4	105136357	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,930.00
5	105136358	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,920.00
6	105136359	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,920.00
7	105136360	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,920.00
8	105136362	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,980.00
9	105136363	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,922.00
10	105136364	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,940.00
11	105136365	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,970.00
12	105136367	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,990.00
13	105136368	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	4,004.00

Deliver on 12/12/07

Total Quantity 140,401 Total Weight: 47,389.00

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: 1113-07

If this shipment is to be delivered to consignor consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

_____
Signature of Consignor

Local Verification Signed:

X _____

Pick Up # 18406RR

Seal #

Truckers P.O. # PO183780

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (281) 230-6781 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: BENNET

Carrier Signature: _____

Date: MWG13-15_49381

GSE Lining Technology, Inc

Roll Test Data Report

Bill of Lading: 72671

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
53376	524244	CAAWS	Joliet, IL	HDT060A010	12/10/2007 *Modified

GSE QC APPROVED

	ASTM D 5994		ASTM D638, Type IV / D4885								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 4218/1603	ASTM D 5596	GRI GM 13	
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield *	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion	Asperity Height Side A	Asperity Height Side B
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat - Cat1	(mils)	(mils)
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 1st	every 2nd	
105136353	62	59	165	161	184	218	17	18	440	554	53	55	151	0.945	2.59	10	32	18
105136356	62	60	162	159	176	205	15	18	448	518	51	54	147	0.944	2.59	10	24	22
105136357	62	60	162	159	176	205	15	18	448	518	51	54	147	0.944	2.59	10	24	22
105136358	63	60	168	161	172	213	15	17	417	545	51	53	142	0.945	2.66	10	24	19
105136359	62	60	168	161	172	213	15	17	417	545	51	53	142	0.945	2.66	10	24	19
105136360	62	58	168	161	172	213	15	17	417	545	51	53	142	0.945	2.66	10	23	24
105136362	61	57	170	166	184	214	16	18	436	541	53	57	156	0.945	2.56	10	23	21
105136363	61	58	170	166	184	214	16	18	436	541	53	57	156	0.945	2.56	10	23	21
105136364	62	59	170	166	184	214	16	18	436	541	53	57	156	0.945	2.56	10	24	19
105136365	62	57	170	166	184	214	16	18	436	541	53	57	156	0.945	2.56	10	24	19
105136367	61	59	162	160	214	202	18	18	588	553	51	55	152	0.944	2.75	10	24	23
105136368	63	61	162	160	214	202	18	18	588	553	51	55	152	0.944	2.75	10	24	23

Approved By: Joe Allen

19103 Gundle Road - Houston, Texas 77073

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at HOUSTON, TEXAS

Shippers No. 72674

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Roll Certifications Included

Date: 12/10/07

Branch Plant: 1500

Shipping Instructions:

Call 24 hours before delivery — Tedd Mills @ 815-521-0900

Sales Order: 53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1		1	EA	FREIGHTSHT001 DOM. SHIPPING CHARGE DOMESTIC SHEET NON TAXABLE	
2	104137263	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	4,000.00
3	104137264	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,972.00
4	104137340	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,932.00
5	104137341	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,952.00
6	104137342	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,940.00
7	104137343	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,932.00
8	104137344	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,936.00
9	105136345	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	4,028.00
10	105136346	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	4,078.00
11	105136347	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	4,000.00
12	105136354	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,976.00
13	105136361	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,934.00

Deliver on 12/12/07

Total Quantity 140,401 — Total Weight: 47,880.00

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: 1113-07

If this shipment is to be delivered to consignor consignor shall sign th following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up # 1840TRR

Seal #

Truckers P.O. # PO 176-633

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (281) 230-6781 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: TMC

Carrier Signature: _____

Date: MWG13-15_49383

GSE Lining Technology, Inc

Roll Test Data Report

Bill of Lading: 72674

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
53376	524244	CAAWS	Joliet, IL	HDT060A010	12/10/2007 *Modified

GSE QC APPROVED

	ASTM D 5994		ASTM D638,Type IV / D4885								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 4218/1603	ASTM D 5596	GRI GM 13	
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Content (%)	Carbon Black Dispersion Views on Cat - (Cat)	Asperity Height Side A (mils)	Asperity Height Side B (mils)
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th	every 2nd	
104137263	61	58	128	134	155	175	16	17	494	535	47	45	137	0.946	2.51	10	29	21
104137264	61	57	153	165	210	200	18	17	565	518	54	54	151	0.946	2.52	10	29	21
104137340	61	58	161	148	198	240	16	18	531	622	51	55	153	0.947	2.44	10	18	22
104137341	62	58	162	158	189	229	16	17	552	634	51	55	153	0.947	2.41	10	18	22
104137342	61	57	162	158	189	229	16	17	552	634	51	55	153	0.947	2.41	10	17	21
104137343	61	58	162	158	189	229	16	17	552	634	51	55	153	0.947	2.41	10	17	21
104137344	61	58	162	158	189	229	16	17	552	634	51	55	153	0.947	2.41	10	22	22
105136345	63	59	168	170	207	208	15	16	549	519	54	57	148	0.946	2.59	10	26	18
105136346	60	55	163	155	205	212	16	18	559	538	53	55	151	0.946	2.58	10	26	21
105136347	62	59	163	155	205	212	16	18	559	538	53	55	151	0.946	2.58	10	23	21
105136354	61	58	162	159	176	205	15	18	448	518	51	54	147	0.944	2.59	10	24	21
105136361	61	58	168	161	172	213	15	17	417	545	51	53	142	0.945	2.66	10	23	24

Approved By: Jane Allen

GSE-8.2.4-029 Rev - - 03/05

19103 Gundle Road - Houston, Texas 77073

GSE®

GSE Lining Technology, Inc.

LETTER OF TRANSMITTAL

Brian McKeown
Clean Air and Water Systems, LLC.
123 Elm Street
Dousman, WI 53118-0337

DATE: December 12, 2007
JOB NO: SO 53376
JOB NAME: Midwest Generation, LLC
RE: QC/QA Certificate

COPIES	DESCRIPTION
1	QC/QA Documentation as per Bill of Lading # 72695

TRANSMIT VIA:

U.S. Mail

If enclosures are not as noted kindly notify us at once.

SIGNED: Janet M Valadez
DATE: December 12, 2007

MWG13-15_49385

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at HOUSTON, TEXAS

Shippers No. 72695

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Roll Certifications Included

Date: 12/11/07

Branch Plant: 1500

Shipping Instructions:

Call 24 hours before delivery — Tedd Mills @ 815-521-0900

Sales Order: 53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1		1	EA	FREIGHTSHT001 DOM. SHIPPING CHARGE DOMESTIC SHEET NON TAXABLE	
2	104137147	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,994.00
3	104137238	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,934.00
4	104137406	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,978.00
5	104137407	11700	SF	HDT060A010 60 mil Avg GSE HDW Textured Blk/Wht, HD, 2 Side Tex, 22.5'	3,964.00

Del. 12/13/07

Total Quantity 46,801 — Total Weight: 15,870.00

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: 1113-07

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up # 184086RR

Seal #

Truckers P.O. # P0187865

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (281) 230-6781 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: IIE

Carrier Signature: _____

Date: MW613-15_49386

GSE Lining Technology, Inc

Roll Test Data Report

Bill of Lading: 72695

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
53376	524244	CAAWS	Joliet, IL	HDT060A010	12/11/2007 *Modified

GSE QC Approved

	ASTM D 5994		ASTM D6693, Type IV (1mm)								ASTM D 1004		ASTM D 413	ASTM D 1505	ASTM D 4218/1603	ASTM D 5596	GRI GS 11	
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (lbs/in)	MD Strength @ Yield (lbs/in)	TD Strength @ Break (lbs/in)	MD Strength @ Break (lbs/in)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat - Cat	Asperity Height Side A (mils)	Asperity Height Side B (mils)
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th	every 2nd	
104137147	62	59	154	147	209	221	16	18	561	558	51	54	143	0.945	2.54	10	23	23
104137238	60	57	156	147	181	226	16	18	469	616	52	55	150	0.946	2.52	10	24	23
104137406	62	55	161	153	188	209	15	17	502	548	52	55	124	0.946	2.31	10	29	22
104137407	61	57	161	153	188	209	15	17	502	548	52	55	124	0.946	2.31	10	28	25

Approved By: Jose Allan

19103 Gundle Road - Houston, Texas 77073

GSE®

GSE Lining Technology, Inc.

LETTER OF TRANSMITTAL

Brian McKeown
Clean Air and Water Systems, LLC.
123 Elm Street
Dousman, WI 53118-0337

DATE: January 2, 2008
JOB NO: SO 53376
JOB NAME: Midwest Generation, LLC
RE: QC/QA Certificate

COPIES	DESCRIPTION
1	QC/QA Documentation as per Bill of Lading # 72947

TRANSMIT VIA:

U.S. Mail

If enclosures are not as noted kindly notify us at once.

SIGNED: Janet M Valadez
DATE: January 2, 2008

MWG13-15_49388

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 72947

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Date: 12/27/07

Branch Plant: 1503

Shipping Instructions:

ETA 12-31-07

Call 24 hours before delivery

Tedd Mills @ 815-521-0900

Sales Order
53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1		1	EA	FREIGHTGEO001 DOM. SHIPPING CHARGE DOMESTIC GEOTEXTILE NONTAXABLE	
2	130288407	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	394.00
3	130288408	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	398.00
4	130288410	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	398.00
5	130288411	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	400.00
6	130288412	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	396.00
7	130288413	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	395.00
8	130288414	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	389.00
9	130288415	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	392.00
10	130288416	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	400.00
11	130288417	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	403.00
12	130288418	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	401.00
13	130288419	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	399.00
14	130288420	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	396.00
15	130288421	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	401.00
16	130288422	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	403.00
17	130288423	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	399.00
	19,001			Continued on next page.....	15,037.00

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number:
1113-07

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

Pick Up # 70937KS

Seal #

Truckers P.O. #

Driver Requirements:

TRL# 53205

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: Landstar

Carrier Signature:

Date: 12-27-07

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 72947

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Date: 12/27/07

Branch Plant: 1503

Shipping Instructions:

Call 24 hours before delivery — Tedd Mills @ 815-521-0900

Sales Order: 53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
18	130288424	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	398.00
19	130288425	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	392.00
20	130288426	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	396.00
21	130288427	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	394.00
22	130288428	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	396.00
23	130288429	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	392.00
24	130288430	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	393.00
25	130288431	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	393.00
26	130288432	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	397.00
27	130288433	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	392.00
28	130288434	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	395.00
29	130288435	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	390.00
30	130288436	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	393.00
31	130288437	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	394.00
32	130288438	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	394.00
33	130288439	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	395.00
34	130288440	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	395.00
	19,001			*Continued on next page.....*	15,037.00

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: 1113-07

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

_____
Signature of Consignor

Local Verification Signed:

X _____

Pick Up #

Seal #

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: _____

Carrier Signature: _____

Date: _____

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 72947

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Date: 12/27/07

Branch Plant: 1503

Shipping Instructions:

Call 24 hours before delivery — Tedd Mills @ 815-521-0900

Sales Order: 53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
35	130288441	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	396.00
36	130288442	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	395.00
37	130288443	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	395.00
38	130288444	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	394.00
39	130288445	500	SY	GEO1208002 Geotextile 12 oz/yd2 MARV	394.00

Total Quantity 19,001

Total Weight: 15,037.00

Project# 524244

Freight charges are prepaid unless marked collect

Check box if collect ☐

Customer P.O. Number: 1113-07

If this shipment is to be delivered to consignor, consignor shall sign the following statement

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up #

Seal #

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: _____

Carrier Signature: _____

Date: _____

Roll Test Data Report

GSE Nonwoven Technology

Bill of Lading: 72947

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
53376	524244	CAAWS	Joliet, IL	GEO1208002	12/27/2007

GSE QC APPROVED

*Modified

Roll No.	Average Sample Flow Rate (gallon/min/ft2)	Water permeability (cm sec)	Permittivity (Sec-1)	Apparent Opening Size (mm)	Mullen Burst Strength (psi)	Puncture Resistance (lbs)	Trap Tear Strength CD (lbs)	Trap Tear Strength MD (lbs)	Grab Elongation CD (%)	Grab Elongation MD (%)	Grab Strength CD (lbs)	Grab Strength MD (lbs)	Thickness (mils)	Mass per Unit Area (oz/yd2)
	ASTM D 4491			ASTM D 4751	ASTM D 3786	ASTM D 4833	ASTM D 4533		ASTM D 4632				ASTM D 5199	ASTM D 5261
	every 60th			every roll	every 20th	every 20th	every 20th		every 20th				every 20th	every 20th
130288407	115	0.80	1.6	0.150	718	236	395	252	122	109	451	364	186	13.6
130288408	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288410	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288411	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288412	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288413	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288414	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288415	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288416	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288417	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288418	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288419	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288420	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288421	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288422	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288423	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288424	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288425	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288426	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288427	115	0.80	1.6	0.150	668	246	373	238	126	104	406	333	169	12.9
130288428	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288429	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288430	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7

MWG13-15_49392

Approved By: [signature]

GSE Nonwoven Technology

Roll Test Data Report

Bill of Lading: 72947

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
53376	524244	CAAWS	Joliet, IL	GEO1208002	12/27/2007

GSE OC APPROVED

*Modified

	ASTM D 4491			ASTM D 4751	ASTM D 5786	ASTM D 4833	ASTM D 4533		ASTM D 4632				ASTM D 5199	ASTM D 5261
	Average Simple Flow Rate (gallons/min/ft²)	Water permeability (cm/sec)	Permittivity (Sec⁻¹)	Apparent Opening Size (mm)	Mullen Burst Strength (psi)	Puncture Resistance (lbs)	Trap Tear Strength (lb)	Trap Tear Strength (kN)	Grab Elongation (%)	Grab Elongation MD (%)	Grab Strength (lb)	Grab Strength (kN)	Thickness (mils)	Mass per Unit Area (oz/yd²)
Roll No.	every 40th			every roll	every 20th	every 20th	every 20th			every 20th			every 20th	every 20th
130288431	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288432	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288433	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288434	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288435	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288436	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288437	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288438	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288439	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288440	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288441	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288442	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288443	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288444	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7
130288445	115	0.80	1.6	0.150	654	246	282	195	118	96	414	357	154	12.7

MWG13-15_49393

Approved By: Vicky T. Dewitt

GSE®

GSE Lining Technology, Inc.

LETTER OF TRANSMITTAL

Brian McKeown
Clean Air and Water Systems, LLC.
123 Elm Street
Dousman, WI 53118-0337

DATE: January 2, 2008
JOB NO: SO 53376
JOB NAME: Midwest Generation, LLC
RE: QC/QA Certificate

COPIES	DESCRIPTION
1	QC/QA Documentation as per Bill of Lading # 72923 & 72926

TRANSMIT VIA:

U.S. Mail

If enclosures are not as noted kindly notify us at once.

SIGNED: Janet M Valadez
DATE: January 2, 2008

MWG13-15_49394

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 72926

Received at Kingstree, SC from GSE Lining Technology, Inc. the property described below, in apparent good order, except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated below, which said Carrier agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to the rates and contract agreed to in writing by GSE Lining Technology, Inc. and Carrier. GSE Lining Technology, Inc.'s obligation to pay freight charges for the shipment is conditioned on (1) the existence of a separate written contract with the carrier transporting the freight and (2) the carrier's name appearing on this Bill of Lading, and other carriers must look solely to a party other than GSE Lining Technology, Inc. for payment.

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Date: 12/21/07

Branch Plant: 1503

Shipping Instructions:
Call 24 hours before delivery

ETA 12-28-07
Tedd Mills @ 815-521-0900

Sales Order
53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1		1	EA	FREIGHTGEO001 DOM. SHIPPING CHARGE DOMESTIC GEOTEXTILE NONTAXABLE	
2	130288335	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	506.00
3	130288336	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	509.00
4	130288337	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	509.00
5	130288338	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	509.00
6	130288339	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	508.00
7	130288340	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	506.00
8	130288341	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	506.00
9	130288342	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	504.00
10	130288343	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	508.00
11	130288344	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	505.00
12	130288345	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	505.00
13	130288346	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	509.00
14	130288347	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	508.00
15	130288348	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	508.00
16	130288349	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	503.00
17	130288350	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	507.00
	17,501				17,721.00

Continued on next page.....

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number:
1113-07

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Wendy Hassett
Signature of Consignor

Local Verification Signed:

Pick Up # 10939KS

Seal #

Truckers P.O. #

Driver Requirements:
1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

TRL# 76607

Carrier Name: RGT

Carrier Signature:

Date: 12-21-07

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 72926

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Date: 12/21/07

Branch Plant: 1503

Shipping Instructions:

Call 24 hours before delivery — Tedd Mills @ 815-521-0900

Sales Order: 53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
18	130288351	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	503.00
19	130288352	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	508.00
20	130288353	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	508.00
21	130288354	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	507.00
22	130288355	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	504.00
23	130288356	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	504.00
24	130288357	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	504.00
25	130288359	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	506.00
26	130288360	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	504.00
27	130288361	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	503.00
28	130288362	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	507.00
29	130288363	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	505.00
30	130288364	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	505.00
31	130288365	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	505.00
32	130288366	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	507.00
33	130288367	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	503.00
34	130288369	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	514.00
		17,501		*Continued on next page.....*	17,721.00

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: 1113-07

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

_____
Signature of Consignor

Local Verification Signed:

X _____

Pick Up #

Seal #

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: _____

Carrier Signature: _____

Date: _____

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 72926

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Date: 12/21/07

Branch Plant: 1503

Shipping Instructions:

Call 24 hours before delivery Tedd Mills @ 815-521-0900

Sales Order 53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
35	130288404	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	505.00
36	130288405	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	509.00

Total Quantity 17,501

Total Weight: 17,721.00

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: 1113-07

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up #

Seal #

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: _____

Carrier Signature: _____

Date: _____

GSE Nonwoven Technology

Roll Test Data Report

Bill of Lading: 72926

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
53376	524244	CAAWS	Joliet, IL	GEO1608002	12/21/2007 *Modified

GSE QC APPROVED

MWG13-15_49398

	ASTM D 4491			ASTM D 4751	ASTM D 5786	ASTM D 4833	ASTM D 4533		ASTM D 4632				ASTM D 5199	ASTM D 5261
	Average Sample Flow Rate (gallon-min/ft²)	Water permeability (cm/sec)	Permittivity (Sec-1)	Apparent Opening Size (mm)	Mullen Burst Strength (psi)	Puncture Resistance (lbs)	Trap Tear Strength CD (lbs)	Trap Tear Strength MD (lbs)	Grab Elongation CD (%)	Grab Elongation MD (%)	Grab Strength CD (lbs)	Grab Strength MD (lbs)	Thickness (mils)	Mass per Unit Area (oz/yd²)
Roll No.		every 10th		every roll	every 11th	every 11th	every 11th		every 11th				every 11th	every 11th
130288335	87	0.60	1.2	0.150	822	304	446	226	121	121	517	411	196	16.1
130288336	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288337	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288338	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288339	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288340	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288341	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288342	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288343	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288344	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288345	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288346	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288347	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288348	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288349	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288350	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288351	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288352	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288353	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288354	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288355	87	0.60	1.2	0.150	840	300	399	253	103	114	550	403	195	16.4
130288356	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288357	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8

Approved By: Vicki T. Powell

GSE Nonwoven Technology

Roll Test Data Report

Bill of Lading: 72926

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
53376	524244	CAAWS	Joliet, IL	GEO1608002	12/21/2007

GSE QC APPROVED

*Modified

MWG13-15_49399

	ASTM D 4491			ASTM D 4751	ASTM D 3786	ASTM D 4833	ASTM D 4533		ASTM D 4632				ASTM D 1777	ASTM D 5261
	Average Sample Flow Rate (gallons/min/ft²)	Water permeability (cm/sec)	Permittivity (Sec⁻¹)	Apparent Opening Size (mm)	Mullen Burst Strength (psi)	Puncture Resistance (lbs)	Trap Tear Strength (°) (lbs)	Trap Tear Strength (MD) (lbs)	Grab Elongation (°) (%)	Grab Elongation (MD) (%)	Grab Strength (°) (lbs)	Grab Strength (MD) (lbs)	Thickness (mils)	Mass per Unit Area (oz/yd²)
Roll No.	every 10th			every roll	every 11th	every 11th	every 11th		every 11th				every 11th	every 11th
130288359	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288360	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288361	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288362	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288363	87	0.60	1.2	0 150	864	312	553	283	113	121	583	431	197	16.8
130288364	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288365	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288366	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288367	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288369	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288404	87	0.60	1.2	0.150	832	272	483	286	125	119	580	408	198	16.0
130288405	87	0.60	1.2	0.150	832	272	483	286	125	119	580	408	198	16.0

Approved By: Vivian T. Powell

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 72923

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Date: 12/21/07

Branch Plant: 1503

Shipping Instructions:

Call 24 hours before delivery

ETA 12-28-07
Tedd Mills @ 815-521-0900

Sales Order
53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1		1	EA	FREIGHTGEO001 DOM. SHIPPING CHARGE DOMESTIC GEOTEXTILE NONTAXABLE	
2	130288368	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	503.00
3	130288370	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	515.00
4	130288371	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	515.00
5	130288372	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	513.00
6	130288373	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	512.00
7	130288374	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	511.00
8	130288375	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	508.00
9	130288376	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	509.00
10	130288377	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	509.00
11	130288378	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	509.00
12	130288379	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	508.00
13	130288380	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	504.00
14	130288381	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	503.00
15	130288382	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	501.00
16	130288383	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	539.00
17	130288384	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	531.00
	17,501				17,747.00

Continued on next page.....

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: 1113-07

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

Pick Up # 10938KS

Seal #

Truckers P.O. #

Driver Requirements:

TRL# 76608

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: RGT

Carrier Signature:

Date: 12-21-07

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 72923

Received at Kingstree, SC from GSE Lining Technology, Inc. the property described below, in apparent good order, except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated below, which said Carrier agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to the rates and contract agreed to in writing by GSE Lining Technology, Inc. and Carrier. GSE Lining Technology, Inc.'s obligation to pay freight charges for the shipment is conditioned on (1) the existence of a separate written contract with the carrier transporting the freight and (2) the carrier's name appearing on this Bill of Lading, and other carriers must look solely to a party other than GSE Lining Technology, Inc. for payment.

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Date: 12/21/07

Branch Plant: 1503

Shipping Instructions:

Call 24 hours before delivery — Tedd Mills @ 815-521-0900

Sales Order

53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
18	130288385	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	539.00
19	130288386	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	504.00
20	130288387	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	502.00
21	130288388	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	501.00
22	130288389	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	500.00
23	130288390	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	500.00
24	130288391	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	501.00
25	130288392	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	500.00
26	130288393	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	502.00
27	130288394	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	500.00
28	130288395	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	500.00
29	130288396	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	500.00
30	130288397	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	500.00
31	130288398	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	502.00
32	130288399	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	500.00
33	130288400	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	500.00
34	130288401	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	501.00
	17,501			*Continued on next page.....*	17,747.00

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: 1113-07

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

_____
Signature of Consignor

Local Verification Signed:

X _____

Pick Up #

Seal #

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: _____

Carrier Signature: _____

Date: _____

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 72923

Received at Kingstree, SC from GSE Lining Technology, Inc. the property described below, in apparent good order, except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated below, which said Carrier agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to the rates and contract agreed to in writing by GSE Lining Technology, Inc. and Carrier. GSE Lining Technology, Inc.'s obligation to pay freight charges for the shipment is conditioned on (1) the existence of a separate written contract with the carrier transporting the freight and (2) the carrier's name appearing on this Bill of Lading, and other carriers must look solely to a party other than GSE Lining Technology, Inc. for payment.

Ship To: CAAWS/Midwest Generation LLC
C/O Brieser Construction Co.
1800 Channahon Road
Joliet IL 60436

Date: 12/21/07

Branch Plant: 1503

Shipping Instructions:

Call 24 hours before delivery — Tedd Mills @ 815-521-0900

Sales Order
53376 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
35	130288402	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	501.00
36	130288403	500	SY	GEO1608002 Geotextile 16 oz/yd2 MARV	504.00

Total Quantity 17,501 **Total Weight:** 17,747.00

Project# 524244

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number:
1113-07

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up #

Seal #

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

Carrier Name: _____

Carrier Signature: _____

Date: _____

GSE GSE Nonwoven Technology

Roll Test Data Report

Bill of Lading: 72923

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
53376	524244	CAAWS	Joliet, IL	GEO1608002	12/21/2007 *Modified

GSE QC APPROVED

MWG13-15_49403

	ASTM D 4491			ASTM D 4751	ASTM D 5261	ASTM D 4833	ASTM D 4533		ASTM D 4632				ASTM D 5199	ASTM D 5261
	Average Sample Flow Rate (gallons min-ft²)	Water permeability (cm-sec)	Permittivity (Sec-1)	Apparent Opening Size (mm)	Mullen Burst Strength (psi)	Puncture Resistance (lbs)	Trap Tear Strength CD (lbs)	Trap Tear Strength MD (lbs)	Grab Elongation CD (%)	Grab Elongation MD (%)	Grab Strength CD (lbs)	Grab Strength MD (lbs)	Thickness (mils)	Mass per Unit Area (oz./yd2)
Roll No.	every 20th			every roll	every 11th	every 11th	every 11th		every 11th				every 11th	every 11th
130288368	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288370	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288371	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288372	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288373	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288374	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288375	87	0.60	1.2	0.150	864	312	553	283	113	121	583	431	197	16.8
130288376	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288377	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288378	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288379	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288380	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288381	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288382	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288383	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288384	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288385	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288386	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288387	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288388	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288389	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288390	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288391	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8

Approved By: Vicky T. Parrott

GSE GSE Nonwoven Technology

Roll Test Data Report

Bill of Lading: 72923

Sales Order No.	Project Number	Customer Name	Project Location	Product Name		Report Date
53376	524244	CAAWS	Joliet, IL	GEO1608002	GSE QC APPROVED	12/21/2007

*Modified

Roll No.	ASTM D 4491 Average Sample Flow Rate (gal/min/ft2)	ASTM D 4491 Water permeability (cm/sec)	ASTM D 4491 Permittivity (Sec-1)	ASTM D 4751 Apparent Opening Size (mm)	ASTM D 3786 Mullen Burst Strength (psi)	ASTM D 4833 Puncture Resistance (lbs)	ASTM D 4533 Trap Tear Strength CD (lbs)	ASTM D 4533 Trap Tear Strength MD (lbs)	ASTM D 4632 Grab Elongation CD (%)	ASTM D 4632 Grab Elongation MD (%)	ASTM D 4632 Grab Strength CD (lbs)	ASTM D 4632 Grab Strength MD (lbs)	ASTM D 5199 Thickness (mils)	ASTM D 5261 Mass per Unit Area (oz/yd2)
		every 10th		every roll	every 11th	every 11th	every 11th			every 11th			every 11th	every 11th
130288392	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288393	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288394	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288395	87	0.60	1.2	0.150	810	282	536	286	112	123	644	420	198	16.8
130288396	87	0.60	1.2	0.150	832	272	483	286	125	119	580	408	198	16.0
130288397	87	0.60	1.2	0.150	832	272	483	286	125	119	580	408	198	16.0
130288398	87	0.60	1.2	0.150	832	272	483	286	125	119	580	408	198	16.0
130288399	87	0.60	1.2	0.150	832	272	483	286	125	119	580	408	198	16.0
130288400	87	0.60	1.2	0.150	832	272	483	286	125	119	580	408	198	16.0
130288401	87	0.60	1.2	0.150	832	272	483	286	125	119	580	408	198	16.0
130288402	87	0.60	1.2	0.150	832	272	483	286	125	119	580	408	198	16.0
130288403	87	0.60	1.2	0.150	832	272	483	286	125	119	580	408	198	16.0

Approved By: Vicky T. Parrott

Kingstree Lab

ATTACHMENT A4

GEOMEMBRANE INSTALLER'S DAILY LOGS AND QC DOCUMENTATION (IMPOUNDMENT #1 AND #2)

A4

IMPOUNDMENT #1

Submittal #24

CAAW Systems

MATERIAL DELIVERY / INVENTORY CHECKLIST

PAGE NO.: 1

DATE:	Q.C. NAME:
PROJECT NAME: Midwest Gen Ash Pond 1	MAT. TYPE:
PROJECT NUMBER: 0	TRUCK NUMBER:
LOCATION Joliet, IL	BILL OF LADING #

Panel / Roll Number	Panel / Roll Size	Square Foot	Comments
365	22.50 x 520	11,700	
357	22.50 x 520	11,700	
362	22.50 x 520	11,700	
359	22.50 x 520	11,700	
356	22.50 x 520	11,700	
360	22.50 x 520	11,700	
368	22.50 x 520	11,700	
353	22.50 x 520	11,700	
367	22.50 x 520	11,700	
344	22.50 x 520	11,700	
364	22.50 x 520	11,700	
134	x		partial
116	x		partial
346	22.50 x 520	11,700	
356	x		partial
357	x		partial
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	TOTAL =	140,400	MWG13-15_4940

Submittal

CAAW Systems

TRIAL WELD TESTING REPORT FORM

PAGE NO.: 1

PROJECT NAME:	Midwest Gen Ash Pond 1	JOB NUMBER:	0	MAT'L TYPE:
TENSIOMETER ID:	0			

DATE	SAMPLE I.D. (TW#)	TIME	AMB. TEMP (°F)	WEATHER (CLOUDY/ SUNNY)	QC INT	MACH NO.	SEAMER INT	EXTRUSION BARREL/ PREHEAT	FUSION WEDGE/ SET SPEED	FIELD WELD VALUES PEEL (PPI)					SHEAR (PPI)			P/F	Comments
10/1/2008	1	08:27	54	cloudy	ss	138	hn	B:	W: 850	167	162	155			184	188	183	P	
								P:	S: 350	162	151	154							
10/1/2008	2	08:25	54	cloudy	ss	427	kk	B:	W: 850	152	147	158			179	183	188	P	
								P:	S: 350	164	156	155							
10/1/2008	3	13:30	68	cloudy	ss	427	kk	B:	W: 850	130	133	126			164	166	160	P	
								P:	S: 350	128	124	124							
10/1/2008	4	13:00	68	cloudy	ss	138	hn	B:	W: 850	130	140	133			160	158	155	P	
								P:	S: 350	129	132	129							
10/2/2008	1	08:05	58	cloudy	ss	138	hn	B:	W: 850	142	154	157			178	172	183	P	
								P:	S: 350	133	148	149							
10/2/2008	2	08:00	58	cloudy	ss	427	kk	B:	W: 850	151	143	148			181	167	188	P	
								P:	S: 350	156	164	155							
10/2/2008	3	08:45	65	cloudy	ss	175	vk	B: 545	W:	134	138	142			189	182	190	P	
								P: 245	S:										
10/2/2008	4	13:05	65	cloudy	ss	175	vk	B: 545	W:	128	136	132			174	180	177	P	
								P: 245	S:										
								B:	W:										
								P:	S:										
								B:	W:										
								P:	S:										
								B:	W:										
								P:	S:										
								B:	W:										
								P:	S:										
								B:	W:										
								P:	S:										

MWG13-15_49406

CAAW Systems

TRIAL WELD TESTING REPORT FORM

PROJECT NAME:	Midwest Gen Ash Pond 1	JOB NUMBER:	0	MAT'L TYPE:
TENSIOMETER ID:	0			

DATE	SAMPLE I.D. (TW#)	TIME	AMB. TEMP (°F)	WEATHER (CLOUDY/ SUNNY)	QC INT	MACH NO.	SEAMER INT	EXTRUSION BARREL/ PREHEAT	FUSION WEDGE/ SET SPEED	FIELD WELD VALUES PEEL (PPI)					SHEAR (PPI)			P/F	Comments
10/3/2008	1	07:20	57	cloudy	ss	175	vk	B: 545	W:	129	130	140			168	163	170	P	
								P: 245	S:										
10/3/2008	2	10:30	57	cloudy	ss	427	kk	B:	W: 850	128	128	140			175	157	168	P	
								P:	S: 350	145	130	147							
10/3/2008	3	10:27	57	cloudy	ss	138	hn	B:	W: 850	145	153	139			173	171	170	P	
								P:	S: 350	153	142	145							
10/3/2008	4	13:20	64	cloudy	ss	427	kk	B:	W: 850	139	144	128			160	159	159	P	
								P:	S: 350	142	132	126							
10/3/2008	5	13:19	64	cloudy	ss	138	hn	B:	W: 850	136	125	133			165	157	163	P	
								P:	S: 350	145	143	136							
10/3/2008	6	13:35	64	cloudy	ss	175	vk	B: 515	W:	115	102	123			165	162	151	P	
								P: 235	S:										
10/4/2008	1	07:03	41	sunny	ss	138	hn	B:	W: 850	151	170	158			198	191	190	P	
								P:	S: 350	148	164	163							
10/4/2008	2	07:30	41	sunny	ss	427	kk	B:	W: 850	167	184	167			188	190	185	P	
								P:	S: 350	173	190	163							
10/4/2008	3	07:35	41	sunny	ss	175	vk	B: 545	W:	162	154	171			201	200	198	P	
								P: 245	S:										
10/4/2008	4	13:05	69	sunny	ss	175	vk	B: 515	W:	148	132	137			154	150	163	P	
								P: 215	S:										
								B:	W:										
								P:	S:										
								B:	W:										
								P:	S:										
								B:	W:										
								P:	S:										

CAAW Systems

PANEL PLACEMENT FORM

PAGE NO.: 1

PROJECT NAME:		Midwest Gen Ash Pond 1				JOB NUMBER: 0	Material Type:
DATE	TIME	PANEL NO.	PANEL LENGTH (FT)	PANEL WIDTH (FT)	PANEL AREA (SF)	ROLL NO.	COMMENTS
10/1/2008		P1	58	22.00	1,276	365	
10/1/2008		P2	58	22.00	1,276	365	
10/1/2008		P3	58	22.00	1,276	365	
10/1/2008		P4	58	22.00	1,276	365	
10/1/2008		P5	58	22.00	1,276	365	
10/1/2008		P6	58	22.00	1,276	365	
10/1/2008		P7	58	22.00	1,276	365	
10/1/2008		P8	58	22.00	1,276	365	
10/1/2008		P9	58	22.00	1,276	357	
10/1/2008		P10	58	22.00	1,276	357	
10/1/2008		P11	58	22.00	1,276	357	
10/1/2008		P12	58	22.00	1,276	357	
10/1/2008		P13	58	22.00	1,276	357	
10/1/2008		P14	58	22.00	1,276	357	
10/1/2008		P15	58	22.00	1,276	357	
10/1/2008		P16	58	22.00	1,276	357	
10/1/2008		P17	58	22.00	1,276	362	
10/1/2008		P18	58	22.00	1,276	362	
10/1/2008		P19	52	22.00	1,144	362	
10/1/2008		P20	52	22.00	1,144	362	
10/1/2008		P21	17	17.00	145	362	
10/1/2008		P22	52	22.00	1,144	362	
10/1/2008		P23	76	22.00	1,518	362	
10/1/2008		P24	76	22.00	1,672	362	
				Total Area (SF) This Page Only =	29,735		

MWG3-5_4940

CAAW Systems

PANEL PLACEMENT FORM

PAGE NO.: 2

PROJECT NAME:		Midwest Gen Ash Pond 1				JOB NUMBER: 0	Material Type:
DATE	TIME	PANEL NO.	PANEL LENGTH (FT)	PANEL WIDTH (FT)	PANEL AREA (SF)	ROLL NO.	COMMENTS
10/1/2008		P25	58	22.00	968	362	
10/1/2008		P26	30	15.00	225	362	
10/1/2008		P27	35	22.00	385	359	
10/1/2008		P28	53	22.00	968	359	
10/1/2008		P29	417	22.00	9,174	359	
10/2/2008		P30	470	22.00	10,340	356	
10/2/2008		P31	478	22.00	10,516	360	
10/2/2008		P32	478	22.00	10,516	362	
10/2/2008		P33	478	22.00	10,516	368	
10/2/2008		P34	478	22.00	10,516	353	
10/3/2008		P35	55	22.00	1,210	367	
10/3/2008		P36	26	18.00	234	367	
10/3/2008		P37	26	16.00	208	367	
10/3/2008		P38	58	22.00	792	367	
10/3/2008		P39	113	22.00	2,486	367	
10/3/2008		P40	50	22.00	1,100	367	
10/3/2008		P41	113	22.00	2,486	344	
10/3/2008		P42	113	22.00	2,486	344	
10/3/2008		P43	113	22.00	2,486	344	
10/3/2008		P44	113	22.00	2,486	344	
10/3/2008		P45	113	22.00	2,486	344	
10/3/2008		P46	65	22.00	1,430	344	
10/3/2008		P47	48	22.00	1,056	364	
10/3/2008		P48	113	22.00	2,486	364	
				Total Area (SF) This Page Only =	87,556		

MWGT3-15_9441

CAAW Systems

PANEL PLACEMENT FORM

PAGE NO.: 3

PROJECT NAME:		Midwest Gen Ash Pond 1				JOB NUMBER: 0	Material Type:
DATE	TIME	PANEL NO.	PANEL LENGTH (FT)	PANEL WIDTH (FT)	PANEL AREA (SF)	ROLL NO.	COMMENTS
10/3/2008		P49	113	22.00	2,486	364	
10/3/2008		P50	113	22.00	2,486	364	
10/3/2008		P51	113	22.00	2,486	364	
10/3/2008		P52	113	22.00	2,486	134	
10/4/2008		P53	113	22.00	2,486	134	
10/4/2008		P54	51	22.00	1,122	134	
10/4/2008		P55	62	22.00	1,364	116	
10/4/2008		P56	113	22.00	2,486	116	
10/4/2008		P57	100	22.00	2,200	346	
10/4/2008		P58	100	22.00	2,200	346	
10/4/2008		P59	100	22.00	2,200	346	
10/4/2008		P60	100	22.00	2,200	346	
10/4/2008		P61	100	22.00	1,529	346	
10/4/2008		P62	44	22.00	484	344	
10/4/2008		P63	27	13.00	176	344	
10/4/2008		P64	54	13.00	351	346	
10/4/2008		P65	51	22.00	1,122	346	
10/4/2008		P66	47	22.00	1,034	356	
10/4/2008		P67	50	22.00	1,100	357	
				Total Area (SF) This Page Only =	31,998		

MWG13-5_4412

Submittal #24

CAAW Systems

PANEL SEAMING FORM

PAGE NO.: 1

PROJECT NAME:	Midwest Gen Ash Pond 1				JOB #:	0		MATERIAL TYPE:		
DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / °F)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
10/1/2008	08:40	P1/P2	58	kk	850	350	427	10MPH/54		
10/1/2008	08:38	P2/P3	58	hn	850	350	138	10MPH/54		
10/1/2008	08:50	P3/P4	58	kk	850	350	427	10MPH/54		
10/1/2008	08:56	P4/P5	58	hn	850	350	138	10MPH/54		
10/1/2008	09:10	P6/P7	58	kk	850	350	427	10MPH/54		
10/1/2008	09:13	P7/P8	58	hn	850	350	138	10MPH/54		
10/1/2008	09:45	P9/P10	58	kk	850	350	427	10MPH/54		
10/1/2008	09:51	P10/P11	58	hn	850	350	138	10MPH/54		
10/1/2008	10:00	P11/P12	58	kk	850	350	427	10MPH/54		
10/1/2008	10:08	P12/P13	58	hn	850	350	138	10MPH/54		
10/1/2008	10:27	P14/P15	58	hn	850	350	138	10MPH/54		
10/1/2008	10:30	P15/P16	58	kk	850	350	427	10MPH/54		
10/1/2008	09:35	P8/P9	58	hn	850	350	138	10MPH/54		
10/1/2008	09:14	P5/P6	58	hn	850	350	138	10MPH/54		
10/1/2008	10:15	P13/P14	58	kk	850	350	427	10MPH/54		
10/1/2008	10:53	P16/P17	58	hn	850	350	138	10MPH/54		
10/1/2008	11:00	P17/P18	58	kk	850	350	427	10MPH/54		
10/1/2008	11:10	P18/P19	58	hn	850	350	138	10MPH/54		
10/1/2008	12:10	P19/P20	52	kk	850	350	427	10MPH/54		
10/1/2008	11:27	P20/P21	17	hn	850	350	138	10MPH/54		
10/1/2008	11:58	P21/P22	17	hn	850	350	138	10MPH/54		
10/1/2008	12:00	P22/P23	52	kk	850	350	427	10MPH/54		
10/1/2008	11:44	P23/P24	69	hn	850	350	138	10MPH/54		
10/1/2008	12:26	P20/P22	28	kk	850	350		10MPH/54		

MWG13-15_49413

CAAW Systems

PANEL SEAMING FORM

PROJECT NAME:	Midwest Gen Ash Pond 1				JOB #:	0		MATERIAL TYPE:		
DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / ºF)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
10/1/2008	14:10	P25/P28	21	kk	850	350	427	10MPH/54		
10/1/2008	14:10	P25/P27	5	hn	850	350	138	10MPH/54		
10/1/2008	13:35	P1/P25	58	kk	850	350	427	10MPH/54		
10/1/2008	13:48	P25/P26	30	hn	850	350	138	10MPH/54		
10/1/2008	14:10	P26/P27	29	hn	850	350	138	10MPH/54		
10/1/2008	14:00	P27/P28	35	kk	850	350	427	10MPH/54		
10/1/2008	14:50	P29/P25	10	kk	850	350	427	10MPH/54		
10/1/2008	14:25	P29/P30	417	hn	850	350	138	10MPH/54		
10/1/2008	15:05	P29/P1	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P2	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P3	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P4	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P5	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P6	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P7	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P8	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P9	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P10	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P12	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P13	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P14	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P15	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P16	22	kk	850	350	427	10MPH/54		
10/1/2008	15:05	P29/P17	22	kk	850	350	427	10MPH/54		

CAAW Systems

PANEL SEAMING FORM

PAGE NO.: 3

PROJECT NAME:	Midwest Gen Ash Pond 1				JOB #:	0		MATERIAL TYPE:		
DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / °F)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
10/1/2008	15:05	P29/P18	22	kk	850	350	427	10MPH/54		
10/2/2008	08:40	P31/P30	470	kk	850	350	427	10MPH/54		
10/2/2008	08:47	P31/P32	470	hn	850	350	138	10MPH/54		
10/2/2008	09:02	P32/P33	470	kk	850	350	427	10MPH/54		
10/2/2008	10:34	P33/P34	470	hn	850	350	138	10MPH/54		
10/2/2008	09:25	P31/P24	58	kk	850	350	427	10MPH/54		
10/3/2008	13:35	P40/P35	13	hn	850	350	138	10MPH/68		
10/3/2008	11:37	P38/P37	24	hn	850	350	138	10MPH/68		
10/3/2008	11:37	P38/P36	8	hn	850	350	138	10MPH/68		
10/3/2008	11:37	P38/P35	24	hn	850	350	138	10MPH/68		
10/3/2008	11:03	P38/P39	58	hn	850	350	138	10MPH/68		
10/3/2008	11:37	P39/P40	50	hn	850	350	138	10MPH/68		
10/3/2008	11:25	P36/P37	26	hn	850	350	138	10MPH/68		
10/3/2008	11:25	P36/P35	37	kk	850	350	427	10MPH/68		
10/3/2008	11:30	P39/P41	108	kk	850	350	427	10MPH/68		
10/3/2008	13:30	P41/P42	108	kk	850	350	427	10MPH/68		
10/3/2008	14:05	P43/P42	108	hn	850	350	138	10MPH/68		
10/3/2008	14:00	P43/P44	108	kk	850	350	427	10MPH/68		
10/3/2008	14:42	P44/P45	108	hn	850	350	138	10MPH/68		
10/3/2008	15:00	P45/P46	60	kk	850	350	427	10MPH/68		
10/3/2008	15:00	P45/P47	48	kk	850	350	427	10MPH/68		
10/3/2008	15:00	P46/P47	22	hn	850	350	138	10MPH/68		
10/3/2008	15:07	P46/P48	60	hn	850	350	138	10MPH/68		
10/3/2008	15:07	P47/P48	48	hn	850	350	138	10MPH/68		

MWG13-15_48415

CAAW Systems

PANEL SEAMING FORM

PAGE NO.: 4

PROJECT NAME:		Midwest Gen Ash Pond 1			JOB #:		0	MATERIAL TYPE:		
DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / °F)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
10/3/2008	15:25	P48/P49	108	kk	850	350	427	10MPH/68		
10/3/2008	15:41	P49/P50	108	hn	850	350	138	10MPH/68		
10/3/2008	15:50	P50/P51	108	kk	850	350	427	10MPH/68		
10/3/2008	16:15	P51/P52	108	kk	850	350	427	10MPH/68		
10/3/2008	16:19	P52/P53	108	hn	850	350	138	10MPH/68		
10/3/2008	16:42	P53/P54	46	hn	850	350	138	10MPH/68		
10/3/2008	16:42	P53/P55	62	hn	850	350	138	10MPH/68		
10/3/2008	16:40	P55/P54	22	kk	850	350	427	10MPH/68		
10/3/2008	16:45	P54/P56	46	kk	850	350	427	10MPH/68		
10/3/2008	16:45	P55/P56	62	kk	850	350	427	10MPH/68		
10/4/2008	07:40	P67/P56	22	hn	850	350	138	10MPH/68		
10/4/2008	07:52	P56/P57	95	hn	850	350	138	10MPH/68		
10/4/2008	08:10	P57/P58	95	hn	850	350	138	10MPH/68		
10/4/2008	08:20	P58/P59	95	kk	850	350	427	10MPH/68		
10/4/2008	08:35	P59/P60	95	hn	850	350	138	10MPH/68		
10/4/2008	08:50	P60/P61	95	kk	850	350	427	10MPH/68		
10/4/2008	09:40	P61/P62	44	kk	850	350	427	10MPH/68		
10/4/2008	10:15	P62/P63	27	kk	850	350	427	10MPH/68		
10/4/2008	10:25	P63/P64	13	kk	850	350	427	10MPH/68		
10/4/2008	10:25	P64/P62	22	kk	850	350	427	10MPH/68		
10/4/2008	09:30	P64/P65	54	kk	850	350	427	10MPH/68		
10/4/2008	10:25	P61/P64	27	kk	850	350	427	10MPH/68		
10/4/2008	10:50	P61/P66	9	kk	850	350	427	10MPH/68		
10/4/2008	10:50	P60/P66	22	kk	850	350	427	10MPH/68		

MWG13-15_49416

PANEL SEAMING FORM

PROJECT NAME:	Midwest Gen Ash Pond 1	JOB #:	0	MATERIAL TYPE:

DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / ºF)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
10/4/2008	10:50	P59/P66	16	kk	850	350	427	10MPH/68		
10/4/2008	10:50	P59/P67	6	kk	850	350	427	10MPH/68		
10/4/2008	10:50	P58/P67	22	kk	850	350	427	10MPH/68		
10/4/2008	10:50	P57/P67	22	kk	850	350	427	10MPH/68		
10/4/2008	07:40	P67/P66	22	kk	850	350	427	10MPH/68		
10/4/2008	08:00	P34/P67	50	kk	850	350	427	10MPH/68		
10/4/2008	08:00	P34/P66	47	hn	850	350	138	10MPH/68		
10/4/2008	10:15	P66/P65	22	hn	850	350	138	10MPH/68		
10/4/2008	10:00	P45/P65	43	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P40/P34	10	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P39	11	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P41	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P42	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P43	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P44	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P45	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P47	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P48	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P49	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P50	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P51	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P52	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P53	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P55	22	kk	850	350	427	10MPH/68		
10/3/2008	16:50	P34/P56	22	kk	850	350	427	10MPH/68		

Submittal #21

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME:	Midwest Gen Ash Pond 1	JOB #: 0	MATERIAL TYPE:

DATE TESTED	SEAM LENGTH TESTED	SEAM #	TESTER INITIALS	AIR PRESSURE TEST					VACUUM TEST	COMMENTS
				TIME		PRESSURE				
				START	END	START	END	P/F	P / F	
10/1/2008	58	P1/P2	ss	11:01	11:06	30	30	P		
10/1/2008	58	P2/P3	ss	11:02	11:07	30	30	P		
10/1/2008	58	P3/P4	ss	11:04	11:09	30	29	P		
10/1/2008	58	P4/P5	ss	11:05	11:10	30	30	P		
10/1/2008	58	P6/P7	ss	11:13	11:18	30	30	P		
10/1/2008	58	P7/P8	ss	11:14	11:19	30	29	P		
10/1/2008	58	P9/P10	ss	11:15	11:20	30	30	P		
10/1/2008	58	P10/P11	ss	11:16	11:21	30	30	P		
10/1/2008	58	P11/P12	ss	11:18	11:23	30	30	P		
10/1/2008	58	P12/P13	ss	11:30	11:35	30	30	P		
10/1/2008	58	P14/P15	ss	11:31	11:36	30	30	P		
10/1/2008	58	P15/P16	ss	11:32	11:37	30	29	P		
10/1/2008	58	P8/P9	ss	11:33	11:38	30	30	P		
10/1/2008	58	P5/P6	ss	11:37	11:42	30	28	P		
10/1/2008	58	P13/P14	ss	11:39	11:44	30	30	P		
10/1/2008	58	P16/P17	ss	11:41	11:46	30	30	P		
10/1/2008	58	P17/P18	ss	11:43	11:48	30	29	P		
10/1/2008	58	P18/P19	ss	11:52	11:57	30	30	P		
10/1/2008	52	P19/P20	ss	12:02	12:07	30	30	P		
10/1/2008	17	P20/P21	ss	13:03	13:08	30	29	P		
10/1/2008	17	P21/P22	ss	13:04	13:09	30	30	P		
10/1/2008	52	P22/P23	ss	13:05	13:10	30	28	P		
10/1/2008	69	P23/P24	ss	13:06	13:11	30	29	P		
10/1/2008	28	P20/P22	ss	13:08	13:13	30	30	P		
										MWG13-15_49418

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: Midwest Gen Ash Pond 1 | JOB #: 0 | MATERIAL TYPE:

DATE TESTED	SEAM LENGTH TESTED	SEAM #	TESTER INITIALS	AIR PRESSURE TEST					VACUUM TEST	COMMENTS
				TIME		PRESSURE				
				START	END	START	END	P/F	P / F	
10/2/2008	21	P25/P28	ss	7:02	7:07	30	29	P		
10/2/2008	5	P25/P27	ss	07:03	7:08	30	30	P		
10/2/2008	58	P1/P25	ss	07:04	7:09	30	30	P		
10/2/2008	30	P25/P26	ss	07:06	7:11	30	30	P		
10/2/2008	29	P26/P27	ss	07:10	7:15	30	30	P		
10/2/2008	35	P27/P28	ss	07:11	7:16	30	29	P		
10/2/2008	10	P29/P25	ss	07:12	7:17	30	30	P		
10/2/2008	417	P29/P30	ss	07:15	7:20	30	30	P		
10/2/2008	22	P29/P1	ss	07:21	7:26	30	29	P		
10/2/2008	22	P29/P2	ss	07:22	7:27	30	28	P		
10/2/2008	22	P29/P3	ss	07:23	7:28	30	30	P		
10/2/2008	22	P29/P4	ss	07:24	7:29	30	30	P		
10/2/2008	22	P29/P5	ss	07:33	7:38	30	29	P		
10/2/2008	22	P29/P6	ss	07:34	7:39	30	30	P		
10/2/2008	22	P29/P7	ss	07:35	7:40	30	28	P		
10/2/2008	22	P29/P8	ss	07:36	7:41	30	30	P		
10/2/2008	22	P29/P9	ss	07:37	7:42	30	29	P		
10/2/2008	22	P29/P10	ss	08:02	8:07	30	30	P		
10/2/2008	22	P29/P12	ss	08:03	8:08	30	28	P		
10/2/2008	22	P29/P13	ss	08:05	8:10	30	29	P		
10/2/2008	22	P29/P14	ss	08:07	8:12	30	30	P		
10/2/2008	22	P29/P15	ss	08:09	8:14	30	28	P		
10/2/2008	22	P29/P16	ss	08:10	8:15	30	30	P		
10/2/2008	22	P29/P17	ss	08:11	8:16	30	30	P		
										MWG13-15_49419

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: Midwest Gen Ash Pond 1 | JOB #: 0 | MATERIAL TYPE:

DATE TESTED	SEAM LENGTH TESTED	SEAM #	TESTER INITIALS	AIR PRESSURE TEST					VACUUM TEST	COMMENTS
				TIME		PRESSURE				
				START	END	START	END	P/F	P / F	
10/4/2008	22	P29/P18	ss	7:00	7:05	30	29	P		
10/4/2008	470	P31/P30	ss	07:01	7:06	30	30	P		
10/4/2008	470	P31/P32	ss	07:03	7:08	30	29	P		
10/4/2008	470	P32/P33	ss	07:05	7:10	30	30	P		
10/4/2008	470	P33/P34	ss	07:06	7:11	30	30	P		
10/4/2008	58	P31/P24	ss	07:07	7:12	30	29	P		
10/4/2008	13	P40/P35	ss	07:13	7:18	30	28	P		
10/4/2008	24	P38/P37	ss	07:14	7:19	30		F	P	ext welded
10/4/2008	8	P38/P36	ss	07:15	7:20	30		F	P	ext welded
10/4/2008	24	P38/P35	ss	07:16	7:21	30		F	P	ext welded
10/4/2008	58	P38/P39	ss	07:17	7:22	30	30	P		
10/4/2008	50	P39/P40	ss	07:24	7:29	30	29	P		
10/4/2008	26	P36/P37	ss	07:25	7:30	30	28	P		
10/4/2008	37	P36/P35	ss	07:28	7:33	30	30	P		
10/4/2008	108	P39/P41	ss	07:29	7:24	30	30	P		
10/4/2008	108	P41/P42	ss	07:30	7:35	30	30	P		
10/4/2008	108	P43/P42	ss	07:33	7:38	30	30	P		
10/4/2008	108	P43/P44	ss	07:35	7:40	30	28	P		
10/4/2008	108	P44/P45	ss	07:36	7:41	30	30	P		
10/4/2008	60	P45/P46	ss	07:44	7:49	30	29	P		
10/4/2008	48	P45/P47	ss	07:45	7:50	30	29	P		
10/4/2008	22	P46/P47	ss	07:46	7:51	30	30	P		
10/4/2008	60	P46/P48	ss	07:47	7:48	30	30	P		
10/4/2008	48	P47/P48	ss	07:50	7:55	30	29	P		

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME:	Midwest Gen Ash Pond 1	JOB #: 0	MATERIAL TYPE:

DATE TESTED	SEAM LENGTH TESTED	SEAM #	TESTER INITIALS	AIR PRESSURE TEST					VACUUM TEST	COMMENTS
				TIME		PRESSURE				
				START	END	START	END	P/F	P / F	
10/4/2008	108	P48/P49	ss	8:04	8:09	30	30	P		
10/4/2008	108	P49/P50	ss	08:05	8:10	30	30	P		
10/4/2008	108	P50/P51	ss	08:06	8:11	30	30	P		
10/4/2008	108	P51/P52	ss	08:15	8:20	30	29	P		
10/4/2008	108	P52/P53	ss	08:16	8:21	30	30	P		
10/4/2008	46	P53/P54	ss	08:18	8:23	30	30	P		
10/4/2008	62	P53/P55	ss	08:20	8:25	30	30	P		
10/4/2008	22	P55/P54	ss	08:22	8:27	30	29	P		
10/4/2008	46	P54/P56	ss	08:23	8:28	30	30	P		
10/4/2008	62	P55/P56	ss	08:30	8:35	30	29	P		
10/4/2008	22	P67/P56	ss	14:02	14:07	30	30	P		
10/4/2008	95	P56/P57	ss	14:03	14:08	30	30	P		
10/4/2008	95	P57/P58	ss	14:04	14:09	30	30	P		
10/4/2008	95	P58/P59	ss	14:20	14:25	30	30	P		
10/4/2008	95	P59/P60	ss	14:24	14:29	30	30	P		
10/4/2008	95	P60/P61	ss	14:26	14:31	30	30	P		
10/4/2008	44	P61/P62	ss	14:28	14:33	30	30	P		
10/4/2008	27	P62/P63	ss	14:30	14:35	30	30	P		
10/4/2008	13	P63/P64	ss	14:40	14:45	30	30	P		
10/4/2008	22	P64/P62	ss	14:41	14:46	30	30	P		
10/4/2008	54	P64/P65	ss	14:42	14:47	30	30	P		
10/4/2008	27	P61/P64	ss	14:43	14:48	30	30	P		
10/4/2008	9	P61/P66	ss	14:48	14:53	30	29	P		
10/4/2008	22	P60/P66	ss	14:49	14:54	30	30	P		
										MWG13-15_49421

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: Midwest Gen Ash Pond 1 | JOB #: 0 | MATERIAL TYPE:

DATE TESTED	SEAM LENGTH TESTED	SEAM #	TESTER INITIALS	AIR PRESSURE TEST					VACUUM TEST	COMMENTS
				TIME		PRESSURE				
				START	END	START	END	P/F	P / F	
10/4/2008	16	P59/P66	ss	15:02	15:07	30	30	P		
10/4/2008	6	P59/P67	ss	15:03	15:08	30	30	P		
10/4/2008	22	P58/P67	ss	15:04	15:09	30	30	P		
10/4/2008	22	P57/P67	ss	15:05	15:10	30	30	P		
10/4/2008	22	P67/P66	ss	15:12	15:17	30	30	P		
10/4/2008	50	P34/P67	ss	15:13	15:18	30	29	P		
10/4/2008	47	P34/P66	ss	15:15	15:20	30	28	P		
10/4/2008	22	P66/P65	ss	15:22	15:27	30	30	P		
10/4/2008	43	P45/P65	ss	15:23	15:28	30	29	P		
10/4/2008	10	P40/P34	ss	15:24	15:29	30	30	P		
10/4/2008	11	P34/P39	ss	15:32	15:37	30	30	P		
10/4/2008	22	P34/P41	ss	15:33	15:38	30	30	P		
10/4/2008	22	P34/P42	ss	15:34	15:39	30	30	P		
10/4/2008	22	P34/P43	ss	15:35	15:40	30	28	P		
10/4/2008	22	P34/P44	ss	15:36	15:41	30	30	P		
10/4/2008	22	P34/P45	ss	15:43	15:48	30	30	P		
10/4/2008	22	P34/P47	ss	15:44	15:49	30	29	P		
10/4/2008	22	P34/P48	ss	15:45	15:50	30	30	P		
10/4/2008	22	P34/P49	ss	15:46	15:51	30	30	P		
10/4/2008	22	P34/P50	ss	15:54	15:59	30	30	P		
10/4/2008	22	P34/P51	ss	15:55	16:00	30	28	P		
10/4/2008	22	P34/P52	ss	15:56	16:01	30	30	P		
10/4/2008	22	P34/P53	ss	15:58	16:03	30	29	P		
10/4/2008	22	P35/P55	ss	16:05	16:10	30	30	P		
10/4/2008	22	P34/P56	ss	16:06	16:11	30	29	P		

Submittal #24

CAAW Systems

DESTRUCTIVE TESTING REPORT FORM

PAGE NO.: 1

PROJECT NAME:	Midwest Gen Ash Pond 1				JOB NUMBER:	0											MATERIAL TYPE:	
TENSIOMETER ID:	0				EXTRUSION	FUSION	FIELD WELD VALUES											
SAMPLE I.D. (DT#)	SEAM NO.	QC INT	MACH NO.	SEAMER INT	BARREL/ PREHEAT	WEDGE/ SET SPEED	PEEL (PPI)					SHEAR (PPI)			P/F	LOCATION OF DESTRUCTIVE TEST		
DS1	P16/P17	ss	138	hn	B:	W: 850	135	141	137			178	180	172	P	neos 0'->3'		
					P:	S: 350	128	146	144									
DS2	P17,P18	ss	427	kk	B:	W: 850	133	139	129			189	172	180	P	neos 0'->3'		
					P:	S: 350	127	148	134									
DS3	P15/P29	ss	427	kk	B:	W: 850	141	142	127			169	173	177	P	weos 0'->5'		
					P:	S: 350	123	130	138									
DS4	P29/P30	ss	138	hn	B:	W: 850	138	131	125			163	168	170	P	weos 0'->50'		
					P:	S: 350	122	135	127									
DS5	P31/P30	ss	427	kk	B:	W: 850	136	122	138			172	163	169	P	weos 0'->150'		
					P:	S: 350	129	126	122									
DS6	P31/P32	ss	138	hn	B:	W: 850	145	134	142			162	173	174	P	weos 0'->150'		
					P:	S: 350	129	141	127									
DS7	P32/P33	ss	427	kk	B:	W: 850	137	135	139			167	169	172	P	weos 0'->200'		
					P:	S: 350	131	127	124									
DS8	P33/P34	ss	138	hn	B:	W: 850	145	116	131			157	164	162	P	weos 0'->200'		
					P:	S: 350	128	122	125									
DS9	P48/P49	ss	427	kk	B:	W: 850	133	128	132			167	162	169	P	neos 0'-76'		
					P:	S: 350	127	123	127									
DS10	P49/P50	ss	138	hn	B:	W: 850	136	144	120			161	168	171	P	neos 0'->84'		
					P:	S: 350	130	139	132									
DS11	P56/P34	ss	427	kk	B:	W: 850	121	134	125			158	166	165	P	weos 0'->8'		
					P:	S: 350	122	128	134									
DS12	P58/P59	ss	427	kk	B:	W: 850	136	140	121			162	178	172	P	neos 0'->90'		
					P:	S: 350	138	144	138									
DS13	P59/P60	ss	138	hn	B:	W: 850	126	137	131			167	173	165	P	neos 0'->90'		
					P:	S: 350	134	127	130									

NWG13-15_49423

CAAW Systems

GEOMEMBRANE REPAIR REPORT

PROJECT NAME:	Midwest Gen Ash Pond 1						JOB #: 0		MATERIAL TYPE:	
FIELD SEAM	PANEL NO.	REPAIR NO.	REPAIR CREW	MACH NO.	TEST DATE	TESTER INIT.	REPAIR TYPE AND SIZE (Patch, Bead, Ext Weld, Cap, DT, Boot, etc.)	REPAIR DATE	LOCTION OF REPAIR	V BOX PASS
P21/P20		R1	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P20-P21-P22	P
P19/P20		R2	vk	175	sv	10/2/2008	patch 2x4	10/2/2008	int of P19-P20-P23	P
P20/P23		R3	vk	175	sv	10/2/2008	ext weld 4'	10/2/2008	eeos 0'->4'	P
P23/P22		R4	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P22-P23-P19	P
	P23	R5	vk	175	sv	10/2/2008	Boot patch 24"/ 3x5	10/2/2008	weop 0'->5' / neop 0'->14'	P
P23/P29		R6	vk	175	sv	10/2/2008	patch 3x8	10/2/2008	int of P29-P23-P19	P
P29/P30		R7	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P30-P29-P23-P24	P
P19/P18		R8	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P19-P18-P29	P
P18/P17		R9	vk	175	sv	10/2/2008	patch 2x3	10/2/2008	neos 0'->3' DS-2	P
P18/P17		R10	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P18-P17-P29	P
P17/P16		R11	vk	175	sv	10/2/2008	patch 2x3	10/2/2008	neos 0'->3' DS-1	P
P17/P16		R12	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P16-P17-P29	P
P16/P15		R13	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P16-P15-P29	P
P15/P29		R14	vk	175	sv	10/2/2008	patch 2x3	10/2/2008	weos 0'->5' DS-3	P
P15/P14		R15	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P15-P14-P29	P
P14/P13		R16	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P14/P13-P29	P
	P13	R17	vk	175	sv	10/2/2008	Boot patch 24"/ 3x9	10/2/2008	neop 0'->8' / weop 0'->6'	P
P13/P12		R18	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P13-P12-P29	P
P12/P11		R19	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P12-P11-P29	P
P12/P11		R20	vk	175	sv	10/2/2008	patch 2x2	10/2/2008	seos 0'-6"	P
P11/P10		R21	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P11-P10-P29	P
P10/P9		R22	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P10-P9-P29	P
P9/P8		R23	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P9-P8-P29	P
P9/P8		R24	vk	175	sv	10/2/2008	ext weld 5"	10/2/2008	neos 0'->30'	P
P8/P7		R25	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P8-P7-P29	P

MW(G19-15_R9424

GEOMEMBRANE REPAIR REPORT

PROJECT NAME:		Midwest Gen Ash Pond 1					JOB #: 0		MATERIAL TYPE:	
FIELD SEAM	PANEL NO.	REPAIR NO.	REPAIR CREW	MACH NO.	TEST DATE	TESTER INIT.	REPAIR TYPE AND SIZE (Patch, Bead, Ext Weld, Cap, DT, Boot, etc.)	REPAIR DATE	LOCTION OF REPAIR	V BOX PASS
P7/P6		R26	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P7-P6-P29	P
P7/P6		R27	vk	175	sv	10/2/2008	paych boot 24" 3x4	10/2/2008	neos 0'->8'	P
P6/P5		R28	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P6-P5-P29	P
P5/P4		R29	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P5-P4-P29	P
P4/P3		R30	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P4-P3-P29	P
P3/P2		R31	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P3-P2-P29	P
P2/P1		R32	vk	175	sv	10/2/2008	t-weld	10/2/2008	int of P2-P1-P29	P
	P25	R33	vk	175	sv	10/3/2008	patch boot 24" 3x7	10/3/2008	neop 0'->5' / eeop 0'->75'	P
P1/P25		R34	vk	175	sv	10/3/2008	t-weld	10/3/2008	int of P25-P1-P29	P
P25/P26		R35	vk	175	sv	10/3/2008	patch 2x4	10/3/2008	int of P25-P26-P27-P28	P
P25/P28		R36	vk	175	sv	10/3/2008	patch 3x3	10/3/2008	int of P25-P28-P29	P
P24/P31		R37	vk	175	sv	10/3/2008	patch 3x3	10/3/2008	int of P24-P20-P31	P
P31/P32		R38	vk	175	sv	10/3/2008	patch 3x3	10/3/2008	eeos 0'-45'	P
P31/P32		R39	vk	175	sv	10/3/2008	patch 3x3	10/3/2008	eeos 0'->72'	P
P30/P31		R40	vk	175	sv	10/3/2008	ext weld 2'	10/3/2008	weos 0'->129'	P
P33/P34		R41	vk	175	sv	10/3/2008	patch 2x2	10/3/2008	weos 0'->31'	P
P35/P38		R42	vk	175	sv	10/3/2008	ext weld 24'	10/3/2008	seos 0'->24' (ext whole seam)	P
P35/P36		R43	vk	175	sv	10/3/2008	patch 2x2	10/3/2008	int of P35-P36-P38	P
P36/P38		R44	vk	175	sv	10/3/2008	ext weld 8'	10/3/2008	seos 0'->8' (ext whole seam)	P
P37/P38		R45	vk	175	sv	10/3/2008	ext weld 24'	10/3/2008	seos 0'->24' (ext whole seam)	P
P38/P39		R46	vk	175	sv	10/3/2008	patch boot 24"3x5	10/3/2008	neos 0'->58'	P
P39/P41		R47	vk	175	sv	10/3/2008	patch 3x3	10/3/2008	int of P34-P39-P41	P
P42/P43		R48	vk	175	sv	10/3/2008	patch 2x5	10/3/2008	neos 0'->37'	P
P43/P44		R49	vk	175	sv	10/3/2008	patch 2x2	10/3/2008	neos 0'->55'	P
P44/P45		R50	vk	175	sv	10/3/2008	patch 2x2	10/3/2008	neos 0'->55'	P

GEOMEMBRANE REPAIR REPORT

PROJECT NAME:		Midwest Gen Ash Pond 1					JOB #: 0		MATERIAL TYPE:	
FIELD SEAM	PANEL NO.	REPAIR NO.	REPAIR CREW	MACH NO.	TEST DATE	TESTER INIT.	REPAIR TYPE AND SIZE (Patch, Bead, Ext Weld, Cap, DT, Boot, etc.)	REPAIR DATE	LOCTION OF REPAIR	V BOX PASS
	P44	R51	vk	175	10/4/2008	sv	patch boot 24"/ 3x3	10/4/2008	neop 0'->55' / weop 0'->10'	P
P45/P46		R52	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	int of P45-P46-P47	P
P48/P49		R53	vk	175	10/4/2008	sv	patch 2x3	10/4/2008	neos 0'->44'	P
P48/P49		R54	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	neos 0'->76' DS-9	P
P48/P47		R55	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	neos 0'->55'	P
	P48	R56	vk	175	10/4/2008	sv	patch boot 24"/3x4	10/4/2008	neop 0'->55' / weop 0'->11'	P
P49/P50		R57	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	neos 0'->55'	P
P49/P50		R58	vk	175	10/4/2008	sv	patch boot 24"/3x3	10/4/2008	neos 0'-72'	P
P49/P50		R59	vk	175	10/4/2008	sv	patch 2x3	10/4/2008	neos 0'->84' DS-10	P
P50/P51		R60	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	neos 0'->78'	P
P54/P53		R61	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	int of P53-P54-P55	P
P54/P56		R62	vk	175	10/4/2008	sv	patch 2x3	10/4/2008	Int ofP54-P55-P56	P
P56/P34		R63	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	weos 0'->8' DS-11	P
P67/P56		R64	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	int of P67-P34-P56	P
P57/P67		R65	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	int of P67-P57-P56	P
P56/P57		R66	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	neos 0'->29'	P
P56/P57		R67	vk	175	10/4/2008	sv	patch 2x3	10/4/2008	neos 0'->51'	P
P58/P59		R68	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	neos 0'->90' DS-12	P
P59/P60		R69	vk	175	10/4/2008	sv	patch 3x3	10/4/2008	neos 0'->62'	P
P59/P60		R70	vk	175	10/4/2008	sv	patch 2x3	10/4/2008	neos 0'->73'	P
P59/P60		R71	vk	175	10/4/2008	sv	patch 2x3	10/4/2008	neos 0'->90' DS-13	P
P62/P61		R72	vk	175	10/4/2008	sv	patch 2x2	10/4/2008	neos 0'->21'	P
P62/P63		R73	vk	175	10/4/2008	sv	patch 6x3	10/4/2008	neos 0'->6'	P
P64/P63		R74	vk	175	10/4/2008	sv	patch 2x3	10/4/2008	eeos 0'->6'	P
P64/P63		R75	vk	175	10/4/2008	sv	t-weld	10/4/2008	int of P64-P63-P62	P

Submittal =

CAAW Systems

GEOMEMBRANE REPAIR REPORT

PROJECT NAME:			Midwest Gen Ash Pond 1				JOB #: 0		MATERIAL TYPE:	
FIELD SEAM	PANEL NO.	REPAIR NO.	REPAIR CREW	MACH NO.	TEST DATE	TESTER INIT.	REPAIR TYPE AND SIZE (Patch, Bead, Ext Weld, Cap, DT, Boot, etc.)	REPAIR DATE	LOCTION OF REPAIR	V BOX PASS
P64/P62		R76	vk	175	10/4/2008	sv	patch 3x3	10/4/2008	int of P64-P62-P61	P
P64/P65		R77	vk	175	10/4/2008	sv	patch 2x4	10/4/2008	eeos 0'->6'	P
P64/P65		R78	vk	175	10/4/2008	sv	patch 3x5	10/4/2008	int of P65-P64-P66-P61	P
P64/P61		R79	vk	175	10/4/2008	sv	patch boot 24"/3x4	10/4/2008	seos 0'->7'	P
P61/P60		R80	vk	175	10/4/2008	sv	t-weld	10/4/2008	int of P60-P61-P66	P
P59/P60		R81	vk	175	10/4/2008	sv	t-weld	10/4/2008	int of P59-P60-P66	P
P66/P67		R82	vk	175	10/4/2008	sv	t-weld	10/4/2008	int of P66-P67-P59	P
P59/P58		R83	vk	175	10/4/2008	sv	t-weld	10/4/2008	int of P58-P59-P67	P
P58/P57		R84	vk	175	10/4/2008	sv	t-weld	10/4/2008	int of P57-P58-P67	P
P67/P34		R85	vk	175	10/4/2008	sv	t-weld	10/4/2008	int of P67-P66-P34	P
P15/P29		R86	vk	175	10/2/2008	sv	patch 2x3	10/2/2008	weos 0'->5' DS-3	P
P29/P30		R87	vk	175	10/2/2008	sv	patch 2x3	10/3/2008	weos 0'->50' DS-4	P
P31/P30		R88	vk	175	10/2/2008	sv	patch 2x3	10/3/2008	weos 0'->150' DS-5	P
P31/P32		R89	vk	175	10/2/2008	sv	patch 2x3	10/3/2008	weos 0'->150' DS-6	P
P32/P33		R90	vk	175	10/2/2008	sv	patch 2x3	10/3/2008	weos 0'->200' DS-7	P
P33/P34		R91	vk	175	10/2/2008	sv	patch 2x3	10/3/2008	weos 0'-.200' DS-8	P

A4

IMPOUNDMENT #2

Submittal #2

CAAW Systems

MATERIAL DELIVERY / INVENTORY CHECKLIST

PAGE NO.: 1

DATE:	4/29/2008	Q.C. NAME:	Sengratana Sengsay
PROJECT NAME:	Midwest Gen Station - Pond #2	MAT. TYPE:	60 Mil. HDPE Texture
PROJECT NUMBER:	200754	TRUCK NUMBER:	
LOCATION	Joliet, IL	BILL OF LADING #	

Panel / Roll Number	Panel / Roll Size	Square Foot	Comments
105136361	22.50 x 520	11,700	
105136347	22.50 x 520	11,700	
104137238	22.50 x 520	11,700	
104137340	22.50 x 520	11,700	
105136345	22.50 x 520	11,700	
104137407	22.50 x 520	11,700	
104137341	22.50 x 520	11,700	
104137342	22.50 x 520	11,700	
104137406	22.50 x 520	11,700	
104137147	22.50 x 520	11,700	
105136354	22.50 x 520	11,700	
105136346	22.50 x 520	11,700	
104137343	22.50 x 520	11,700	
184137263	22.50 x 520	11,700	
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	TOTAL =	163,800	MWG13-15_49429

CAAW Systems

MATERIAL DELIVERY / INVENTORY CHECKLIST

PAGE NO.: 2

DATE:	4/29/2008	Q.C. NAME:	Sengratana Sengsay
PROJECT NAME:	Midwest Gen Station - Pond #2	MAT. TYPE:	16 oz. Geotextile
PROJECT NUMBER:	200754	TRUCK NUMBER:	
LOCATION	Joliet, IL	BILL OF LADING #	

Panel / Roll Number	Panel / Roll Size	Square Foot	Comments
130288393	15.00 x 300	4,500	
130288390	15.00 x 300	4,500	
130288351	15.00 x 300	4,500	
130288383	15.00 x 300	4,500	
130288370	15.00 x 300	4,500	
130288381	15.00 x 300	4,500	
130288391	15.00 x 300	4,500	
130288397	15.00 x 300	4,500	
130288399	15.00 x 300	4,500	
130288389	15.00 x 300	4,500	
130288384	15.00 x 300	4,500	
130288395	15.00 x 300	4,500	
130288387	15.00 x 300	4,500	
130288401	15.00 x 300	4,500	
130288392	15.00 x 300	4,500	
130288372	15.00 x 300	4,500	
130288382	15.00 x 300	4,500	
130288373	15.00 x 300	4,500	
130288402	15.00 x 300	4,500	
130288386	15.00 x 300	4,500	
130288398	15.00 x 300	4,500	
130288352	15.00 x 300	4,500	
130288377	15.00 x 300	4,500	
130288379	15.00 x 300	4,500	
130288376	15.00 x 300	4,500	
130288394	15.00 x 300	4,500	
130288363	15.00 x 300	4,500	
130288400	15.00 x 300	4,500	
130288385	15.00 x 300	4,500	
130288365	15.00 x 300	4,500	
130288403	15.00 x 300	4,500	
	TOTAL =	139,500	

CAAW Systems

MATERIAL DELIVERY / INVENTORY CHECKLIST

DATE:	4/29/2008	Q.C. NAME:	Sengratana Sengsay
PROJECT NAME:	Midwest Gen Station - Pond #2	MAT. TYPE:	16 oz. Geotextile
PROJECT NUMBER:	200754	TRUCK NUMBER:	
LOCATION	Joliet, IL	BILL OF LADING #	

Panel / Roll Number	Panel / Roll Size	Square Foot	Comments
130288380	15.00 x 300	4,500	
130288369	15.00 x 300	4,500	
130288388	15.00 x 300	4,500	
130288396	15.00 x 300	4,500	
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	TOTAL =	18,000	

CAAW Systems

MATERIAL DELIVERY / INVENTORY CHECKLIST

DATE:	4/29/2008	Q.C. NAME:	Sengratana Sengsay
PROJECT NAME:	Midwest Gen Station - Pond #2	MAT. TYPE:	12 oz. Geotextile
PROJECT NUMBER:	200754	TRUCK NUMBER:	
LOCATION	Joliet, IL	BILL OF LADING #	

Panel / Roll Number	Panel / Roll Size	Square Foot	Comments
130288410	15.00 x 300	4,500	
130288449	15.00 x 300	4,500	
130288429	15.00 x 300	4,500	
130288424	15.00 x 300	4,500	
130288430	15.00 x 300	4,500	
130288439	15.00 x 300	4,500	
130288418	15.00 x 300	4,500	
130288426	15.00 x 300	4,500	
130288428	15.00 x 300	4,500	
130288440	15.00 x 300	4,500	
130288421	15.00 x 300	4,500	
130288412	15.00 x 300	4,500	
130288425	15.00 x 300	4,500	
130288422	15.00 x 300	4,500	
130288423	15.00 x 300	4,500	
130288427	15.00 x 300	4,500	
130288420	15.00 x 300	4,500	
130288416	15.00 x 300	4,500	
130288438	15.00 x 300	4,500	
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	x		
	TOTAL =	85,500	

Submitted PC

CAAW Systems

TRIAL WELD TESTING REPORT FORM

PAGE NO.: 1

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB NUMBER:	200754	MAT'L TYPE:	60 Mil. HDPE
TENSIOMETER ID:	T-062/06				

DATE	SAMPLE I.D. (TW#)	TIME	AMB. TEMP (°F)	WEATHER (CLOUDY/ SUNNY)	QC INT	MACH NO.	SEAMER INT	EXTRUSION	FUSION	FIELD WELD VALUES									P/F	Comments
								BARREL/ PREHEAT	WEDGE/ SET SPEED	PEEL (PPI)						SHEAR (PPI)				
4/30/2008	1	09:30	58	sunny	ss	428	ck	B:	W: 850	168	167	162				165	169		P	
								P:	S: 400	154	164	166								
4/30/2008	2	09:28	58	sunny	ss	138	vp	B:	W: 850	161	154	169				172	163		P	
								P:	S: 400	159	160	155								
4/30/2008	3	13:10	58	sunny	ss	428	ck	B:	W: 850	143	137	144				169	161		P	
								P:	S: 400	138	142	148								
4/30/2008	4	13:15	58	sunny	ss	138	vp	B:	W: 850	137	134	140				166	162		P	
								P:	S: 400	139	138	133								
5/1/2008	1	07:45	58	sunny	ss	428	ck	B:	W: 850	134	126	135				162	166		P	
								P:	S: 450	145	130	133								
5/1/2008	2	07:43	58	sunny	ss	138	vp	B:	W: 850	144	138	141				171	168		P	
								P:	S: 450	142	135	136								
5/1/2008	3	12:45	64	cloudy	ss	428	ck	B:	W: 850	137	141	144				167	162		P	
								P:	S: 450	154	135	138								
5/1/2008	4	12:40	64	cloudy	ss	138	vp	B:	W: 850	138	128	136				166	169		P	
								P:	S: 450	137	134	138								
5/2/2008	1	07:40	63	cloudy	ss	138	vp	B:	W: 850	136	144	137				161	157		P	
								P:	S: 450	148	139	142								
5/2/2008	2	07:42	63	cloudy	ss	428	ck	B:	W: 850	152	137	136				160	158		P	
								P:	S: 450	144	139	142								
								B:	W:											
								P:	S:											
								B:	W:											
								P:	S:											
								B:	W:											
								P:	S:											

NWG13-15_49433

CAAW Systems

TRIAL WELD TESTING REPORT FORM

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB NUMBER:	200754	MAT'L TYPE:
TENSIOMETER ID:	T-062/06			

DATE	SAMPLE I.D. (TW#)	TIME	AMB. TEMP (ºF)	WEATHER (CLOUDY/ SUNNY)	QC INT	MACH NO.	SEAMER INT	EXTRUSION BARREL/ PREHEAT	FUSION WEDGE/ SET SPEED	FIELD WELD VALUES PEEL (PPI)					SHEAR (PPI)			P/F	Comments
5/5/2008	1	08:40	67	Sunny	ss	428	ck	B:	W: 850	158	138	141			181	178		P	
								P:	S: 400	168	155	150							
5/5/2008	2	09:00	67	Sunny	ss	138	vp	B:	W: 850	135	137	133			183	180		P	
								P:	S: 400	130	130	140							
5/5/2008	3	13:05	67	Sunny	ss	428	ck	B:	W: 850	139	143	136			176	180		P	
								P:	S: 400	138	139	134							
5/5/2008	4	13:03	67	Sunny	ss	138	vp	B:	W: 850	144	137	141			188	183		P	
								P:	S: 400	139	134	138							
5/6/2008	1	07:07	58	Sunny	ss	428	ck	B:	W: 850	143	139	138			169	174		P	
								P:	S: 400	140	142	144							
5/6/2008	2	07:55	58	Sunny	ss	138	vp	B:	W: 850	152	138	139			178	174		P	
								P:	S: 400	139	144	145							
5/6/2008	3	08:00	58	Sunny	ss	175	vk	B: 550	W:	166	169	164			204	207		P	
								P: 350	S:										
5/6/2008	4	08:02	58	Sunny	ss	88	vp	B: 550	W:	165	173	167			198	203		P	
								P: 250	S:										
								B:	W:										
								P:	S:										
								B:	W:										
								P:	S:										
								B:	W:										
								P:	S:										
								B:	W:										
								P:	S:										
								B:	W:										
								P:	S:										

Submittal #24

CAAW Systems

PANEL PLACEMENT FORM

PAGE NO.: 1

PROJECT NAME:		Midwest Gen Station - Pond #2				JOB NUMBER: 200754	Material Type: 60 Mil. HDPE
DATE	TIME	PANEL NO.	PANEL LENGTH (FT)	PANEL WIDTH (FT)	PANEL AREA (SF)	ROLL NO.	COMMENTS
4/30/2008		P1	72	22.00	1,584	105136347	
4/30/2008		P2	75	22.00	1,650	105136347	
4/30/2008		P3	77	22.00	1,694	105136347	
4/30/2008		P4	77	22.00	1,694	105136347	
4/30/2008		P5	73	22.00	1,606	105136347	
4/30/2008		P6	75	22.00	1,650	105136347	
4/30/2008		P7	74	22.00	1,628	104137263	
4/30/2008		P8	71	22.00	1,562	104137263	
4/30/2008		P9	73	22.00	1,606	104137263	
4/30/2008		P10	75	22.00	1,650	104137263	
4/30/2008		P11	77	22.00	1,694	104137263	
4/30/2008		P12	75	22.00	1,650	104137263	
4/30/2008		P13	74	22.00	1,628	105136361	
4/30/2008		P14	74	22.00	1,628	105136361	
4/30/2008		P15	76	22.00	1,672	105136361	
4/30/2008		P16	75	22.00	1,650	105136361	
4/30/2008		P17	75	22.00	1,650	105136361	
4/30/2008		P18	72	22.00	1,584	105136361	
4/30/2008		P19	48	22.00	720	105136361	
4/30/2008		P20	24	22.00	192	105136361	
4/30/2008		P21	46	22.00	1,012	105136347	
4/30/2008		P22	72	22.00	1,584	104137407	
4/30/2008		P23	72	22.00	1,584	104137407	
4/30/2008		P24	24	22.00	264	104137407	
				Total Area (SF) This Page Only =	34,836		

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CAAW Systems

PANEL PLACEMENT FORM

PAGE NO.: 2

PROJECT NAME:		Midwest Gen Station - Pond #2				JOB NUMBER: 200754	Material Type: 60 Mil. HDPE
DATE	TIME	PANEL NO.	PANEL LENGTH (FT)	PANEL WIDTH (FT)	PANEL AREA (SF)	ROLL NO.	COMMENTS
4/30/2008		P25	40	22.00	880	104137407	
4/30/2008		P26	65	22.00	1,430	104137407	
4/30/2008		P27	66	22.00	1,452	104137407	
5/1/2008		P28	58	22.00	1,276	104137407	
5/1/2008		P29	59	22.00	1,298	104137407	
5/1/2008		P30	61	22.00	1,342	105136345	
5/1/2008		P31	63	22.00	1,386	105136345	
5/1/2008		P32	62	22.00	1,364	105136345	
5/1/2008		P33	72	22.00	1,584	105136345	
5/1/2008		P34	60	22.00	1,034	105136345	
5/1/2008		P35	34	22.00	391	105136345	
5/1/2008		P36	74	22.00	1,628	105136345	
5/1/2008		P37	75	22.00	1,650	105136345	
5/1/2008		P38	76	22.00	1,672	104137341	
5/1/2008		P39	77	22.00	1,694	104137341	
5/1/2008		P40	76	22.00	1,672	104137341	
5/1/2008		P41	75	22.00	1,650	104137341	
5/1/2008		P42	76	22.00	1,672	104137341	
5/1/2008		P43	75	22.00	1,650	104137341	
5/1/2008		P44	75	22.00	1,650	104137104	
5/1/2008		P45	61	22.00	891	104137147	
5/1/2008		P46	20	22.00	220	104137147	
5/1/2008		P47	54	22.00	1,188	104137341	
5/1/2008		P48	55	22.00	1,210	104137342	
				Total Area (SF) This Page Only =	31,884		

CAAW Systems

PANEL PLACEMENT FORM

PAGE NO.: 3

PROJECT NAME:		Midwest Gen Station - Pond #2				JOB NUMBER: 200754	Material Type: 60 Mil. HDPE
DATE	TIME	PANEL NO.	PANEL LENGTH (FT)	PANEL WIDTH (FT)	PANEL AREA (SF)	ROLL NO.	COMMENTS
5/1/2008		P49	53	22.00	1,166	104137342	
5/1/2008		P50	53	22.00	1,166	104137342	
5/1/2008		P51	53	22.00	1,166	104137342	
5/1/2008		P52	53	22.00	1,166	104137342	
5/1/2008		P53	53	22.00	1,166	104137342	
5/1/2008		P54	53	22.00	1,166	104137342	
5/1/2008		P55	53	22.00	1,166	104137342	
5/2/2008		P56	405	22.00	8,910	104137340	
5/5/2008		P57	405	22.00	8,910	104137238	
5/5/2008		P58	108	22.00	2,376	104137264	
5/5/2008		P59	297	22.00	6,534	104137264	
5/5/2008		P60	202	22.00	4,444	104137264	
5/5/2008		P61	203	22.00	4,466	104137406	
5/5/2008		P62	303	22.00	6,666	104137406	
5/5/2008		P63	102	22.00	2,244	104137340	
5/5/2008		P64	405	22.00	8,910	105136346	
5/5/2008		P65	115	22.00	2,530	105136346	
5/5/2008		P66	67	22.00	1,474	184137263	
5/5/2008		P67	96	22.00	2,112	105136354	
5/5/2008		P68	96	22.00	2,112	105136354	
5/5/2008		P69	95	22.00	2,090	105136354	
5/5/2008		P70	96	22.00	2,112	105136354	
5/5/2008		P71	98	22.00	2,156	105136354	
5/5/2008		P72	98	22.00	2,156	104137343	
				Total Area (SF) This Page Only =	78,364		

CAAW Systems

PANEL PLACEMENT FORM

PAGE NO.: 4

PROJECT NAME:		Midwest Gen Station - Pond #2				JOB NUMBER: 200754	Material Type:
DATE	TIME	PANEL NO.	PANEL LENGTH (FT)	PANEL WIDTH (FT)	PANEL AREA (SF)	ROLL NO.	COMMENTS
5/5/2008		P73	98	22.00	2,156	104137343	
5/5/2008		P74	98	22.00	2,156	104137343	
5/5/2008		P75	98	22.00	2,156	104137343	
5/6/2008		P76	92	22.00	2,024	104137343	
5/6/2008		P77	71	22.00	1,562	104137343	
5/6/2008		P78	32	24.00	384	104137343	
Total Area (SF) This Page Only =					10,438		

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CAAw Systems

PANEL SEAMING FORM

PAGE NO.: 1

PROJECT NAME:	Midwest Gen.Station - Pond #2	JOB #:	200754	MATERIAL TYPE:	60 Mil. HDPE

DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / ºF)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
4/30/2008	09:50	P1/P2	72	VP	850	400	148	10-15 MPH/58		
4/30/2008	10:05	P2/P3	75	CK	850	400	428	10-15 MPH/58		
4/30/2008	10:04	P3/P4	76	VP	850	400	148	10-15 MPH/58		
4/30/2008	10:24	P4/P5	73	CK	850	400	428	10-15 MPH/58		
4/30/2008	10:38	P5/P6	74	VP	850	400	148	10-15 MPH/58		
4/30/2008	10:43	P6/P7	73	CK	850	400	428	10-15 MPH/58		
4/30/2008	10:58	P7/P8	71	VP	850	400	148	10-15 MPH/58		
4/30/2008	11:14	P8/P9	71	CK	850	400	428	10-15 MPH/58		
4/30/2008	11:19	P9/P10	72	VP	850	400	148	10-15 MPH/58		
4/30/2008	11:31	P10/P11	75	CK	850	400	428	10-15 MPH/58		
4/30/2008	11:36	P11/P12	75	VP	850	400	148	10-15 MPH/58		
4/30/2008	13:20	P12/P13	74	CK	850	400	428	10-15 MPH/58		
4/30/2008	13:28	P13/P14	74	VP	850	400	148	10-15 MPH/58		
4/30/2008	13:35	P14/P15	74	CK	850	400	428	10-15 MPH/58		
4/30/2008	13:47	P15/P16	75	VP	850	400	148	10-15 MPH/58		
4/30/2008	13:48	P16/P17	75	CK	850	400	428	10-15 MPH/58		
4/30/2008	14:04	P17/P18	72	CK	850	400	428	10-15 MPH/58		
4/30/2008	14:18	P18/P19	48	CK	850	400	428	10-15 MPH/58		
4/30/2008	14:28	P19/P20	24	CK	850	400	428	10-15 MPH/58		
4/30/2008	14:40	P20/P21	16	CK	850	400	428	10-15 MPH/58		
4/30/2008	14:49	P21/P19	27	CK	850	400	428	10-15 MPH/58		
4/30/2008	15:00	P18/P21	13	CK	850	400	428	10-15 MPH/58		
4/30/2008	17:01	P1/P22	69	CK	850	400	428	10-15 MPH/58		
4/30/2008	17:05	P22/P23	72	VP	850	400	138	10-15 MPH/58		

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CAAW Systems

PANEL SEAMING FORM

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB #:	200754	MATERIAL TYPE:	60 Mil. HDPE

DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / ºF)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
4/30/2008	17:16	P26/P27	64	CK	850	400	428	10-15 MPH/58		
4/30/2008	17:20	P26/P25	40	VP	850	400	138	10-15 MPH/58		
4/30/2008	17:23	P24/P25	23	CK	850	400	428	10-15 MPH/58		
4/30/2008	17:26	P24/P23	24	VP	850	400	138	10-15 MPH/58		
4/30/2008	17:31	P23/P25	22	VP	850	400	138	10-15 MPH/58		
4/30/2008	17:36	P23/P26	27	VP	850	400	138	10-15 MPH/58		
5/1/2008	08:17	P27/P28	56	CK	850	450	428	10-15 MPH/68		
5/1/2008	08:30	P28/P29	59	CK	850	450	428	10-15 MPH/68		
5/1/2008	08:47	P29/P30	58	CK	850	450	428	10-15 MPH/68		
5/1/2008	08:57	P30/P31	62	CK	850	450	428	10-15 MPH/68		
5/1/2008	09:07	P31/P32	62	CK	850	450	428	10-15 MPH/68		
5/1/2008	09:17	P32/P33	63	CK	850	450	428	10-15 MPH/68		
5/1/2008	09:33	P33/P34	60	CK	850	450	428	10-15 MPH/68		
5/1/2008	09:44	P34/P35	34	CK	850	450	428	10-15 MPH/68		
5/1/2008	12:51	P36/P37	74	CK	850	450	428	10-15 MPH/68		
5/1/2008	13:10	P37/P38	75	CK	850	450	428	10-15 MPH/68		
5/1/2008	13:23	P38/P39	76	CK	850	450	428	10-15 MPH/68		
5/1/2008	13:40	P39/P40	75	VP	850	450	138	10-15 MPH/68		
5/1/2008	13:43	P40/P41	75	CK	850	450	428	10-15 MPH/68		
5/1/2008	13:55	P41/P42	76	VP	850	450	138	10-15 MPH/68		
5/1/2008	14:00	P42/P43	76	CK	850	450	428	10-15 MPH/68		
5/1/2008	14:20	P43/P44	75	VP	850	450	138	10-15 MPH/68		
5/1/2008	14:30	P44/P45	61	CK	850	450	428	10-15 MPH/68		
5/1/2008	14:35	P45/P46	20	VP	850	450	138	10-15 MPH/68		

CAAW Systems

PANEL SEAMING FORM

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB #:	200754	MATERIAL TYPE:	60 Mil. HDPE

DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / ºF)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
5/1/2008	14:57	P47/P46	22	CK	850	450	428	10-15 MPH/68		
5/1/2008	14:57	P47/P45	33	CK	850	450	428	10-15 MPH/68		
5/1/2008	16:18	P48/P21	42	CK	850	450	428	10-15 MPH/68		
5/1/2008	16:20	P48/P49	53	CK	850	450	428	10-15 MPH/68		
5/1/2008	16:18	P18/P48	16	CK	850	450	428	10-15 MPH/68		
5/1/2008	16:55	P49/P50	53	VP	850	450	138	10-15 MPH/68		
5/1/2008	17:03	P50/P51	53	CK	850	450	428	10-15 MPH/68		
5/1/2008	17:10	P51/P52	53	VP	850	450	138	10-15 MPH/68		
5/1/2008	17:20	P52/P53	53	CK	850	450	428	10-15 MPH/68		
5/1/2008	17:33	P53/P54	53	VP	850	450	138	10-15 MPH/68		
5/1/2008	17:50	P54/P55	53	CK	850	450	428	10-15 MPH/68		
5/1/2008	17:48	P55/P47	53	VP	850	450	138	10-15 MPH/68		

CAAW Systems

PANEL SEAMING FORM

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB #:	200754	MATERIAL TYPE:

DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / ºF)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
5/2/2008	08:00	P56/P18	9	VP	850	450	138	10 MPH/65		
5/2/2008	08:04	P48/P56	12	VP	850	450	138	10 MPH/65		
5/2/2008	08:09	P49/P56	9	VP	850	450	138	10 MPH/65		
5/2/2008	08:13	P17/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:17	P16/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:21	P15/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:25	P14/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:29	P13/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:33	P12/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:37	P11/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:41	P10/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:45	P9/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:49	P8/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:53	P7/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	08:57	P6/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	09:01	P5/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	09:05	P4/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	09:09	P3/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	09:13	P2/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	09:17	P1/P56	22	VP	850	450	138	10 MPH/65		
5/2/2008	09:21	P22/P56	22	VP	850	450	138	10 MPH/65		

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CAAW Systems

PANEL SEAMING FORM

PAGE NO.: 5

PROJECT NAME:		Midwest Gen Station - Pond #2			JOB #:		200754	MATERIAL TYPE:		
DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / ºF)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
5/5/2008	08:47	P56/P57	405	CK	850	400	428	5-10 MPH / 59		
5/5/2008	09:30	P57/P58	108	VP	850	400	138	5-10 MPH / 59		
5/5/2008	09:44	P58/P59	22	VP	850	400	138	5-10 MPH / 59		
5/5/2008	09:46	P59/P57	297	VP	850	400	138	5-10 MPH / 59		
5/5/2008	10:48	P60/P61	22	VP	850	400	138	5-10 MPH / 59		
5/5/2008	10:33	P61/P59	311	CK	850	400	428	5-10 MPH / 59		
5/5/2008	11:16	P59/P60	94	CK	850	400	428	5-10 MPH / 59		
5/5/2008	11:25	P60/P62	202	VP	850	400	138	5-10 MPH / 59		
5/5/2008	11:40	P61/P62	101	VP	850	400	138	5-10 MPH / 59		
5/5/2008	11:35	P60/P58	108	CK	850	400	428	5-10 MPH / 59		
5/5/2008	13:10	P63/P61	102	VP	850	400	138	5-10 MPH / 59		
5/5/2008	13:11	P63/P64	102	CK	850	400	428	5-10 MPH / 59		
5/5/2008	13:26	P62/P64	303	CK	850	400	428	5-10 MPH / 59		
5/5/2008	14:00	P64/P66	67	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:15	P64/P65	115	VP	850	400	138	5-10 MPH / 59		
5/5/2008	13:45	P65/P66	22	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P65/P55	5	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P65/P54	13	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P64/P54	9	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P64/P53	12	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P62/P53	9	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P62/P52	12	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P60/P52	9	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P60/P51	12	VP	850	400	138	5-10 MPH / 59		

MMG 3-18 49443

CAAW Systems

PANEL SEAMING FORM

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB #:	200754	MATERIAL TYPE:

DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / ºF)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
5/5/2008	14:40	P58/P51	9	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P58/P50	12	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P57/P50	9	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P57/P49	12	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P56/P49	10	VP	850	400	138	5-10 MPH / 59		
5/5/2008	14:40	P56/P48	12	VP	850	400	138	5-10 MPH / 59		
5/5/2008	15:11	P67/P36	76	CK	850	400	428	5-10 MPH / 59		
5/5/2008	15:33	P67/P68	95	CK	850	400	428	5-10 MPH / 59		
5/5/2008	16:00	P68/P69	95	CK	850	400	428	5-10 MPH / 59		
5/5/2008	16:26	P69/P70	95	CK	850	400	428	5-10 MPH / 59		
5/5/2008	16:26	P66/P36	15	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:26	P66/P37	22	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:26	P66/P38	22	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:26	P66/P39	9	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:26	P65/P40	12	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:26	P65/P41	22	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:26	P65/P42	22	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:26	P65/P43	22	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:26	P65/P44	15	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:40	P70/P71	95	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:40	P71/P72	96	CK	850	400	428	5-10 MPH / 59		
5/5/2008	16:58	P72/P73	96	VP	850	400	138	5-10 MPH / 59		
5/5/2008	16:59	P73/P74	97	CK	850	400	428	5-10 MPH / 59		
5/5/2008	17:05	P74/P75	97	VP	850	400	138	5-10 MPH / 59		

CAAW Systems

PANEL SEAMING FORM

PROJECT NAME:	Midwest Gen Station - Pond #2				JOB #:	200754		MATERIAL TYPE:		
DATE	TIME	SEAM NO.	SEAM LENGTH (FT)	SEAMER INITIALS	SET TEMP	SET SPEED	MACHINE NUMBER	WEATHER WIND / TEMP (MPH / ºF)	BEGINNING SAMPLE TEST RESULT	ENDING SAMPLE TEST RESULT
5/6/2008	07:57	P75/P76	92	CK	850	400	428	5-10 MPH / 59		
5/6/2008	08:18	P76/P77	71	VP	850	400	138	5-10 MPH / 59		
5/6/2008	08:22	P77/P78	32	CK	850	400	428	5-10 MPH / 59		
5/6/2008	08:40	P78/P35	24	CK	850	400	428	5-10 MPH / 59		
5/6/2008	08:50	P77/P34	27	CK	850	400	428	5-10 MPH / 59		
5/6/2008	09:04	P77/P33	6	CK	850	400	428	5-10 MPH / 59		
5/6/2008	09:10	P76/P33	9	CK	850	400	428	5-10 MPH / 59		
5/6/2008	10:00	P67/P64	22	CK	850	400	428	5-10 MPH / 59		
5/6/2008	10:00	P68/P64	22	CK	850	400	428	5-10 MPH / 59		
5/6/2008	10:00	P69/P64	22	CK	850	400	428	5-10 MPH / 59		
5/6/2008	10:00	P70/P64	22	CK	850	400	428	5-10 MPH / 59		
5/6/2008	10:00	P71/P64	22	CK	850	400	428	5-10 MPH / 59		
5/6/2008	10:00	P72/P64	22	CK	850	400	428	5-10 MPH / 59		
5/6/2008	10:00	P73/P64	22	CK	850	400	428	5-10 MPH / 59		
5/6/2008	10:00	P74/P64	22	CK	850	400	428	5-10 MPH / 59		
5/6/2008	10:00	P75/P64	22	CK	850	400	428	5-10 MPH / 59		
5/6/2008	10:00	P76/P64	22	CK	850	400	428	5-10 MPH / 59		

Submittal #24

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB #:	200754	MATERIAL TYPE:	60 Mil. HDPE

DATE	SEAM LENGTH	SEAM #	TESTER	AIR PRESSURE TEST					VACUUM TEST	
				TIME		PRESSURE				
TESTED	TESTED		INITIALS	START	END	START	END	P/F	P / F	COMMENTS
4/30/2008	72	P1/P2	ss	14:11	14:16	30	30	P	P	
4/30/2008	75	P2/P3	ss	14:12	14:17	30	28	P	P	
4/30/2008	76	P3/P4	ss	14:18	14:23	30	29	P	P	
4/30/2008	73	P4/P5	ss	14:19	14:24	30	28	P	P	
4/30/2008	65	P5/P6	ss	14:25	14:30	30	28	P	P	
4/30/2008	9	P5/P6	ss	14:24	14:29	30	28	P	P	
4/30/2008	73	P6/P7	ss	14:26	14:31	30	30	P	P	
4/30/2008	65	P7/P8	ss	14:28	14:33	30	30	P	P	
4/30/2008	9	P8/P9	ss	14:34	14:39	30	29	P	P	
4/30/2008	73	P9/P10	ss	14:40	14:45	30	30	P	P	
4/30/2008	71	P10/P11	ss	14:41	14:46	30	29	P	P	
4/30/2008	71	P11/P12	ss	14:43	14:48	30	30	P	P	
4/30/2008	72	P12/P13	ss	15:08	15:13	30	28	P	P	
4/30/2008	75	P12/P13	ss	15:09	15:14	30	29	P	P	
4/30/2008	75	P21/P20	ss	16:20	16:25	30	30	P	P	
4/30/2008	23	P21/P19	ss	16:21	16:26	30	28	P	P	
4/30/2008	50	P21/P18	ss	16:22	16:27	30	29	P	P	
4/30/2008	24	P19/P20	ss	16:33	16:38	30	30	P	P	
4/30/2008	48	P19/P18	ss	16:34	16:39	30	28	P	P	
4/30/2008	10	P18/P17	ss	16:36	16:41	30	30	P	P	
4/30/2008	62	P18/P17	ss	16:44	16:49	30	30	P	P	
4/30/2008	75	P17/P16	ss	16:50	16:55	30	29	P	P	
4/30/2008	75	P16/P15	ss	16:52	16:57	30	20	P	P	
4/30/2008	74	P15/P14	ss	16:54	16:59	30	28	P	P	
4/30/2008	74	P14/P13	ss	17:04	17:09	30	30	P	P	
5/1/2008	72	P1/P22	ss	07:40	7:45	30	30	P	P	
5/1/2008	72	P22/P23	ss	07:41	7:46	30	29	P	P	
5/1/2008	22	P23/P24	ss	07:42	7:47	30	28	P	P	
5/1/2008	24	P24/P25	ss	07:48	7:53	30	29	P	P	
5/1/2008	40	P25/P26	ss	07:49	7:54	30	30	P	P	
5/1/2008	65	P26/P27	ss	07:51	7:56	30	28	P	P	
5/1/2008	37	P26/P23	ss	08:00	8:05	30	29	P	P	
5/1/2008	22	P25/P23	ss	08:08	8:13	30	29	P	P	

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB #:	200754	MATERIAL TYPE:	60 Mil. HDPE

DATE	SEAM LENGTH	SEAM #	TESTER	AIR PRESSURE TEST					VACUUM TEST	
				TIME		PRESSURE				
TESTED	TESTED		INITIALS	START	END	START	END	P/F	P / F	COMMENTS
5/1/2008	56	P27/P28	ss	8:46	8:51	30	30	P	P	
5/1/2008	59	P28/P29	ss	08:47	8:52	30	30	P	P	
5/1/2008	58	P29/P30	ss	09:06	9:11	30	28	P	P	
5/1/2008	62	P30/P31	ss	09:10	9:15	30	30	P	P	
5/1/2008	62	P31/P32	ss	09:48	9:53	30	30	P	P	
5/1/2008	63	P32/P33	ss	09:49	9:54	30	28	P	P	
5/1/2008	60	P33/P34	ss	10:01	10:06	30	30	P	P	
5/1/2008	34	P34/P35	ss	10:03	10:08	30	29	P	P	
5/1/2008	74	P36/P37	ss	13:22	13:27	30	28	P	P	
5/1/2008	75	P37/P38	ss	13:28	13:33	30	30	P	P	
5/1/2008	76	P38/P39	ss	13:45	13:50	30	29	P	P	
5/1/2008	75	P39/P40	ss	14:00	14:05	30	30	P	P	
5/1/2008	75	P40/P41	ss	14:04	14:09	30	28	P	P	
5/1/2008	78	P41/P42	ss	14:20	14:25	30	30	P	P	
5/1/2008	76	P42/P43	ss	14:24	14:29	30	30	P	P	
5/1/2008	75	P43/P44	ss	15:00	15:05	30	29	P	P	
5/1/2008	61	P44/P45	ss	15:04	15:09	30	30	P	P	
5/1/2008	20	P45/P46	ss	15:15	15:20	30	30	P	P	
5/1/2008	22	P46/P47	ss	16:02	16:07	30	28	P	P	
5/1/2008	33	P47/P45	ss	16:04	16:09	30	30	P	P	
5/1/2008	42	P21/P48	ss	16:10	16:15	30	30	P	P	
5/1/2008	16	P18/P48	ss	16:20	16:25	30	28	P	P	
5/2/2008	53	P48/P49	ss	07:45	7:50	30	29	P	P	
5/2/2008	53	P49/P50	ss	07:47	7:52	30	30	P	P	
5/2/2008	53	P50/P51	ss	07:54	7:59	30	30	P	P	
5/2/2008	53	P51/P52	ss	07:55	8:00	30	29	P	P	
5/2/2008	53	P52/P53	ss	08:10	8:15	30	30	P	P	
5/2/2008	53	P53/P54	ss	08:11	8:16	30	29	P	P	
5/2/2008	53	P54/P55	ss	08:18	8:23	30	28	P	P	
5/2/2008	53	P55/P47	ss	08:31	8:36	30	30	P	P	
										MWG13-15_49447

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: Midwest Gen Station - Pond #2 | JOB #: 200754 | MATERIAL TYPE:

DATE TESTED	SEAM LENGTH TESTED	SEAM #	TESTER INITIALS	AIR PRESSURE TEST TIME START	TIME END	PRESSURE START	PRESSURE END	P/F	VACUUM TEST P / F	COMMENTS
5/5/2008	9	P18/P56	SS	8:01	8:06	30	30	P	P	
5/5/2008	22	P17/P56	SS	08:02	8:07	30	28	P	P	
5/5/2008	22	P16/P56	SS	08:09	8:14	30	30	P	P	
5/5/2008	22	P15/P56	SS	08:11	8:16	30	29	P	P	
5/5/2008	22	P14/P56	SS	08:13	8:18	30	28	P	P	
5/5/2008	22	P13/P56	SS	08:19	8:24	30	30	P	P	
5/5/2008	22	P12/P56	SS	08:20	8:25	30	29	P	P	
5/5/2008	22	P11/P56	SS	08:26	8:31	30	29	P	P	
5/5/2008	22	P10/P56	SS	08:28	8:33	30	30	P	P	
5/5/2008	22	P9/P56	SS	08:34	8:39	30	28	P	P	
5/5/2008	22	P8/P56	SS	08:35	8:40	30	28	P	P	
5/5/2008	22	P7/P56	SS	08:41	8:46	30	30	P	P	
5/5/2008	22	P6/P56	SS	08:42	8:47	30	30	P	P	
5/5/2008	22	P5/P56	SS	08:48	8:53	30	30	P	P	
5/5/2008	22	P4/P56	SS	08:47	8:52	30	29	P	P	
5/5/2008	22	P3/P56	SS	08:58	9:03	30	30	P	P	
5/5/2008	22	P2/P56	SS	08:59	9:54	30	29	P	P	
5/5/2008	22	P1/P56	SS	09:10	9:15	30	30	P	P	
5/5/2008	22	P22/P56	SS	09:11	9:16	30	28	P	P	
5/5/2008	22	P48/P56	SS	09:20	9:25	30	28	P	P	
5/5/2008	22	P49/P56	SS	09:21	9:26	30	30	P	P	

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

PAGE NO.: 4

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB #:	200754	MATERIAL TYPE:

DATE	SEAM LENGTH	SEAM #	TESTER	AIR PRESSURE TEST					VACUUM TEST	
				TIME		PRESSURE				
TESTED	TESTED		INITIALS	START	END	START	END	P/F	P / F	COMMENTS
5/5/2008	405	P56/P57	SS	10:48	10:53	30	28	P	P	
5/5/2008	108	P57/P58	SS	10:49	10:54	30	30	P	P	
5/5/2008	22	P58/P59	SS	14:02	14:07	30	30	P	P	
5/5/2008	297	P59/P57	SS	16:20	16:25	30	29	P	P	
5/5/2008	108	P58/P60	SS	16:21	16:26	30	30	P	P	
5/5/2008	94	P60/P59	SS	16:27	16:32	30	30	P	P	
5/5/2008	22	P60/P61	SS	16:28	16:33	30	29	P	P	
5/5/2008	203	P61/P59	SS	16:29	16:34	30	28	P	P	
5/5/2008	202	P60/P62	SS	16:35	16:40	30	30	P	P	
5/5/2008	101	P61/P62	SS	16:36	16:41	30	29	P	P	
5/5/2008	102	P61/P63	SS	16:42	16:47	30	30	P	P	
5/5/2008	22	P62/P63	SS	16:43	16:48	30	30	P	P	
5/5/2008	303	P64/P62	SS	16:49	16:54	30	29	P	P	
5/5/2008	102	P64/P63	SS	16:50	16:55	30	30	P	P	
5/5/2008	115	P64/P65	SS	16:56	17:01	30	29	P	P	
5/5/2008	67	P66/P64	SS	16:57	17:02	30	30	P	P	
5/5/2008	15	P66/P36	SS	16:58	17:53	30	28	P	P	
5/5/2008	22	P66/P37	SS	17:10	17:15	30	30	P	P	
5/5/2008	22	P66/P38	SS	17:11	17:16	30	29	P	P	
5/5/2008	9	P66/P39	SS	17:12	17:17	30	30	P	P	
5/5/2008	12	P65/P40	SS	17:13	17:18	30	29	P	P	
5/5/2008	22	P65/P41	SS	17:18	17:23	30	28	P	P	
5/5/2008	22	P65/P42	SS	17:25	17:30	30	30	P	P	
5/5/2008	22	P65/P43	SS	17:26	17:31	30	30	P	P	
5/5/2008	15	P65/P44	SS	17:33	17:38	30	29	P	P	
5/5/2008	95	P67/P68	SS	17:34	17:39	30	30	P	P	
5/5/2008	95	P68/P69	SS	17:41	17:46	30	28	P	P	
5/5/2008	96	P69/P70	SS	17:42	17:47	30	30	P	P	
5/5/2008	96	P70/P71	SS	17:49	17:54	30	28	P	P	
5/5/2008	96	P71/P72	SS	17:50	17:55	30	30	P	P	
5/5/2008	96	P72/P73	SS	17:56	18:01	30	29	P	P	
5/5/2008	96	P73/P74	SS	17:58	18:53	30	30	P	P	
5/5/2008	97	P74/P75	SS	18:10	18:15	30	29	P	P	
										MWG13-15_49449

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: Midwest Gen Station - Pond #2	JOB #: 200754	MATERIAL TYPE:

DATE	SEAM LENGTH	SEAM #	TESTER	AIR PRESSURE TEST					VACUUM TEST	
				TIME		PRESSURE				
TESTED	TESTED		INITIALS	START	END	START	END	P/F	P / F	COMMENTS
5/6/2008	22	P64/P75	SS	9:08	9:13	30	30	P	P	
5/6/2008	22	P64/P74	SS	09:09	9:14	30	28	P	P	
5/6/2008	22	P64/P73	SS	09:15	9:20	30	29	P	P	
5/6/2008	22	P64/P72	SS	09:16	9:21	30	30	P	P	
5/6/2008	22	P64/P71	SS	09:17	9:22	30	30	P	P	
5/6/2008	22	P64/P70	SS	09:23	9:28	30	29	P	P	
5/6/2008	22	P64/P69	SS	09:24	9:29	30	28	P	P	
5/6/2008	22	P64/P68	SS	09:25	9:30	30	30	P	P	
5/6/2008	22	P64/P67	SS	09:31	9:36	30	30	P	P	
5/6/2008	13	P56/P27	SS	09:32	9:37	30	29	P	P	
5/6/2008	8	P57/P27	SS	09:33	9:38	30	30	P	P	
5/6/2008	12	P57/P28	SS	09:39	9:44	30	29	P	P	
5/6/2008	9	P59/P28	SS	09:47	9:52	30	30	P	P	
5/6/2008	12	P59/P29	SS	09:48	9:53	30	28	P	P	
5/6/2008	9	P61/P29	SS	09:56	10:01	30	30	P	P	
5/6/2008	12	P61/P30	SS	09:57	10:02	30	29	P	P	
5/6/2008	9	P63/P30	SS	10:08	10:13	30	30	P	P	
5/6/2008	12	P63/P31	SS	10:11	10:16	30	28	P	P	
5/6/2008	9	P64/P31	SS	10:12	10:17	30	30	P	P	
5/6/2008	12	P64/P32	SS	10:25	10:30	30	30	P	P	
5/6/2008	95	P67/P64	SS	10:35	10:40	30	30	P	P	
5/6/2008	95	P68/P64	SS	10:36	10:41	30	28	P	P	
5/6/2008	96	P69/P64	SS	10:42	10:47	30	29	P	P	
5/6/2008	95	P70/P64	SS	10:43	10:48	30	30	P	P	
5/6/2008	96	P71/P64	SS	10:45	10:50	30	29	P	P	
5/6/2008	95	P72/P64	SS	10:53	10:58	30	30	P	P	
5/6/2008	95	P73/P64	SS	10:55	11:00	30	28	P	P	
5/6/2008	96	P74/P64	SS	11:12	11:17	30	30	P	P	
5/6/2008	96	P75/P64	SS	11:15	11:20	30	30	P	P	
5/6/2008	96	P76/P74	SS	11:20	11:25	30	30	P	P	
5/6/2008	92	P75/P76	SS	11:21	11:26	30	30	P	P	
5/6/2008	71	P76/P77	SS	11:27	11:32	30	28	P	P	
5/6/2008	32	P77/P78	SS	11:28	11:33	30	29	P	P	
5/6/2008	24	P78/P35	SS	11:29	11:34	30	30	P	P	MWG13-15_49450

CAAW Systems

NON-DESTRUCTIVE TESTING FORM

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PROJECT NAME:	Midwest Gen Station - Pond #2	JOB #:	200754	MATERIAL TYPE:

DATE	SEAM LENGTH	SEAM #	TESTER	AIR PRESSURE TEST					VACUUM TEST	
				TIME		PRESSURE				
TESTED	TESTED		INITIALS	START	END	START	END	P/F	P / F	COMMENTS
5/6/2008	27	P77/P34	SS	11:35	11:40	30	30	P	P	
5/6/2008	6	P77/P33	SS	11:41	11:46	30	29	P	P	
5/6/2008	9	P76/P33	SS	11:43	11:48	30	28	P	P	

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CAAW Systems

DESTRUCTIVE TESTING REPORT FORM

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB NUMBER:	200754	MATERIAL TYPE:	60 Mil. HDPE
TENSIOMETER ID:	T-062/06				

SAMPLE I.D. (DT#)	SEAM NO.	QC INT	MACH NO.	SEAMER INT	EXTRUSION BARREL/ PREHEAT	FUSION WEDGE/ SET SPEED	FIELD WELD VALUES PEEL (PPI)					SHEAR (PPI)			P/F	LOCATION	OF DESTRUCTIVE TEST
DS1	P13/P14	ss	138	vp	B:	W: 850	146	151	138			165	162		P	NEOS 0'->14'	
					P:	S: 400	140	139	137								
DS2	P14/P15	ss	428	ck	B:	W: 850	133	139	134			166	169		P	NEOS 0'->33'	
					P:	S: 400	136	140	153								
DS3	P27/P28	ss	428	ck	B:	W: 850	138	135	131			169	168		P	WEOS 0'->10'	
					P:	S: 450	140	134	137								
DS4	P37/P38	ss	428	ck	B:	W: 850	139	151	140			169	164		P	SEOS 0'->25'	
					P:	S: 450	143	138	145								
DS5	P43/P44	ss	138	vp	B:	W: 850	132	136	138			171	168		P	SEOS 0'->20'	
					P:	S: 450	142	144	135								
DS6	P50/P51	ss	428	ck	B:	W: 850	146	139	142			166	167		P	EEOS 0'->8'	
					P:	S: 450	154	138	151								
DS7	P7/P56	ss	138	vp	B:	W: 850	138	137	134			180	165		P	WEOS 0'->10'	
					P:	S: 450	132	139	132								
DS8	P56/P57	ss	428	ck	B:	W: 850	139	135	137			167	183		P	EEOS 0'->11'	
					P:	S: 450	142	138	146								
DS9	P57/P59	ss	138	vp	B:	W: 850	138	138	132			165	174		P	EEOS 0'->102'	
					P:	S: 450	136	132	143								
DS10	P60/P58	ss	428	ck	B:	W: 850	143	132	133			177	173		P	EEOS 0'->24'	
					P:	S: 450	139	139	147								
DS11	P63/P61	ss	138	vp	B:	W: 850	133	135	132			171	179		P	EEOS 0'->5'	
					P:	S: 450	137	133	136								
DS12	P63/P64	ss	428	ck	B:	W: 850	139	132	143			177	175		P	EEOS 0'->25'	
					P:	S: 450	135	138	144								
DS13	P65/P43	ss	138	vp	B:	W: 850	143	146	137			172	178		P	EEOS 0'->10'	
					P:	S: 450	138	133	139								

Submittal #2

CAAW Systems

GEOMEMBRANE REPAIR REPORT

PAGE NO.: 1

PROJECT NAME: Midwest Gen Station - Pond #2 | JOB #: 200754 | MATERIAL TYPE:

FIELD SEAM	PANEL NO.	REPAIR NO.	REPAIR CREW	MACH NO.	TEST DATE	TESTER INIT.	REPAIR TYPE AND SIZE (Patch, Bead, Ext Weld, Cap, DT, Boot, etc.)	REPAIR DATE	LOCTION OF REPAIR		V BOX PASS
P17/P56		R1	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'		P
P16/P56		R2	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P15/P56		R3	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P14/P56		R4	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P13/P56		R5	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P12/P56		R6	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P11/P56		R7	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P10/P56		R8	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P9/P56		R9	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P8/P56		R10	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P7/P56		R11	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P6/P56		R12	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P5/P56		R13	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P4/P56		R14	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P3/P56		R15	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P2/P56		R16	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P1/P56		R17	VK	175	5/6/2008	CK	ext weld	5/6/2008	NEOS 0'		P
P22/P56		R18	VK	175	5/6/2008	CK	patch 3x3	5/6/2008	NEOS 0'		P
P65/P55		R19	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'		P
P65/P54		R20	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'		P
P64/P54		R21	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'		P
P64/P53		R22	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'		P
P62/P53		R23	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'		P
P62/P52		R24	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'		P
P60/P52		R25	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	EEOS 0'		P

CAAW Systems

GEOMEMBRANE REPAIR REPORT

PROJECT NAME:		Midwest Gen Station - Pond #2			JOB #: 200754			MATERIAL TYPE:		
FIELD SEAM	PANEL NO.	REPAIR NO.	REPAIR CREW	MACH NO.	TEST DATE	TESTER INIT.	REPAIR TYPE AND SIZE (Patch, Bead, Ext Weld, Cap, DT, Boot, etc.)	REPAIR DATE	LOCTION OF REPAIR	V BOX PASS
P60/P51		R26	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'	P
P58/P51		R27	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'	P
P58/P50		R28	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'	P
P57/P50		R29	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'	P
P57/P49		R30	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'	P
P56/P49		R31	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'	P
P56/P48		R32	VK	175	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'	P
P66/P36		R33	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P66/P37		R34	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P66/P38		R35	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P66/P39		R36	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P65/P40		R37	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P65/P41		R38	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P65/P42		R39	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P65/P43		R40	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P65/P44		R41	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P67/P64		R42	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	SEOS 0'	P
P68/P64		R43	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P69/P64		R44	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P70/P64		R45	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P71/P64		R46	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	SEOS 0'	P
P72/P64		R47	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P73/P64		R48	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P74/P64		R49	VP	88	5/6/2008	CK	ext weld	5/6/2008	SEOS 0'	P
P75/P64		R50	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	SEOS 0'	P

CAAW Systems

GEOMEMBRANE REPAIR REPORT

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB #:	200754	MATERIAL TYPE:

FIELD SEAM	PANEL NO.	REPAIR NO.	REPAIR CREW	MACH NO.	TEST DATE	TESTER INIT.	REPAIR TYPE AND SIZE (Patch, Bead, Ext Weld, Cap, DT, Boot, etc.)	REPAIR DATE	LOCTION OF REPAIR	V BOX PASS
P76/P64		R51	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	SEOS 0'	P
P58/P57		R52	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	EEOS 0'	P
P60/P58		R53	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	EEOS 0'	P
P60/P59		R54	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	EEOS 0'	P
P60/P62		R55	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	EEOS 0'	P
P61/P62		R56	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	EEOS 0'	P
P64/P62		R57	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	EEOS 0'	P
P65/P64		R58	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	EEOS 0'	P
P26/P25		R59	VK	175	5/6/2008	CK	ext weld	5/6/2008	anchor	P
P14/P13		R60	VK	175	5/6/2008	CK	bead	5/6/2008	anchor	P
P20/P21		R61	VK	175	5/6/2008	CK	patch 6x3	5/6/2008	anchor	P
P48/P21		R62	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	WEOS 0'	P
P18/P19		R63	VK	175	5/6/2008	CK	patch 1x1	5/6/2008	NEOS 0'	P
P50/P51		R64	VK	175	5/6/2008	CK	ext weld	5/6/2008	WEOS 0'	P
P51/P52		R65	VK	175	5/6/2008	CK	patch 1x1	5/6/2008	WEOS 0'	P
P55/P54		R66	VK	175	5/6/2008	CK	patch 1x1	5/6/2008	WEOS 0'	P
P47/P55		R67	VP	88	5/6/2008	CK	patch 6x8	5/6/2008	WEOS 0'	P
P46/P45		R68	VP	88	5/6/2008	CK	patch 1x1	5/6/2008	SEOS 0'	P
P45/P44		R69	VP	88	5/6/2008	CK	patch 3x3	5/6/2008	SEOS 0'	P
P42/P43		R70	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'->5'	P
P40/P41		R71	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	NEOS 0'->27'	P
P35/P34		R72	VP	88	5/6/2008	CK	patch 3x3	5/6/2008	WEOS 0'	P
P34/P33		R73	VP	88	5/6/2008	CK	patch 2x2	5/6/2008	WEOS 0'	P
P33/P32		R74	VK	175	5/6/2008	CK	patch 10x10	5/6/2008	EEOS 0'->5'	P
	P32	R75	VK	175	5/6/2008	CK	patch 1x1	5/6/2008	EEOP 0'->10'	P

CAAW Systems

GEOMEMBRANE REPAIR REPORT

PROJECT NAME:	Midwest Gen Station - Pond #2	JOB #:	200754	MATERIAL TYPE:

FIELD SEAM	PANEL NO.	REPAIR NO.	REPAIR CREW	MACH NO.	TEST DATE	TESTER INIT.	REPAIR TYPE AND SIZE (Patch, Bead, Ext Weld, Cap, DT, Boot, etc.)	REPAIR DATE	LOCTION OF REPAIR	V BOX PASS
	P28	R76	VK	175	5/6/2008	CK	bead	5/6/2008	EEOP 0'->10'	P
	P28	R77	VK	175	5/6/2008	CK	bead	5/6/2008	EEOP 0'->12'	P
P27/P28		R78	VK	175	5/6/2008	CK	patch 6x12	5/6/2008	EEOS 0'->15'	P
P13/P14		R79	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	NEOS 0'->14'(DS1)	P
P14/P15		R80	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	NEOS 0'->33'(DS2)	P
P27/P28		R81	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	WEOS 0'->10'(DS3)	P
P37/P38		R82	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	SEOS 0'->25'(DS4)	P
P43/P44		R83	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	SEOS 0'->20'(DS5)	P
P50/P51		R84	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	EEOS 0'->8'(DS6)	P
P7/P56		R85	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	WEOS 0'->10'(DS7)	P
P56/P57		R86	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	EEOS 0'->11'(DS8)	P
P57/P59		R87	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	EEOS 0'->102'(DS9)	P
P60/P58		R88	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	EEOS 0'->24'(DS10)	P
P63/P61		R89	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	EEOS 0'->5'(DS11)	P
P63/P64		R90	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	EEOS 0'->25'(DS12)	P
P65/P43		R91	VK	175	5/6/2008	CK	patch 2x3	5/6/2008	EEOS 0'->10'(DS13)	P
	P77	R92	VP	88	5/6/2008	CK	patch 3x3; pipe boot		SEOP	P
	P69	R93	VP	88	5/6/2008	CK	patch 3x3; pipe boot		SEOP	P
	P68	R94	VP	88	5/6/2008	CK	patch 3x3; pipe boot		SEOP	P
	P39	R95	VP	88	5/6/2008	CK	patch 3x3; pipe boot		SEOP	P
	P44	R96	VP	88	5/6/2008	CK	patch 3x3; pipe boot		SEOP	P
	P22	R97	VK	175	5/6/2008	CK	patch 3x3; pipe boot		NEOP	P
	P5	R98	VK	175	5/6/2008	CK	patch 3x3; pipe boot		NEOP	P
	P11	R99	VK	175	5/6/2008	CK	patch 3x3; pipe boot		NEOP	P
	P18	R100	VK	175	5/6/2008	CK	patch 3x3; pipe boot		NEOP	P

MWG13-R5_49456

ATTACHMENT A5

GEOMEMBRANE INSTALLER'S SUBGRADE ACCEPTANCE (IMPOUNDMENT #1 AND #2)

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE PREPARATION FOR GEOMEMBRANE INSTALLATION

PROJECT NAME: Midwest Generation Joliet Station Ash Pond 1

LOCATION: Joliet, IL

JOB NUMBER: 200754 CLIENT: Brieser Construction Company

AREA ACCEPTED: Entire area to be lined under panels P1 to P67

COMMENTS:

INSTALLER: The undersigned authorized representative of CAAW Systems certifies that he or she has visually inspected the subgrade surface of the area described above and has found the surface to be acceptable for installation of the geosynthetic materials.

CAAW Systems shall be responsible for the integrity of finished geosynthetic material until completion of the installation or demobilization from site.

This certification is based on observations of the subgrade surface conditions only. CAAW Systems has made no subterrain inspections or tests and makes no representations or warranties as to the conditions that may exist below the surface of the subgrade.

CERTIFICATE APPROVED BY:

Installers Acceptance		Inspectors Acceptance	
Company:	Clean Air And Water Systems, LLC	Company:	Brieser Construction Company
By:	Thong Ingels	By:	Mike Schmidt
Title:	Superintendent	Title:	Superintendent
Date:	10-6-08	Date:	10-6-08

Submittal #25

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE PREPARATION FOR GEOMEMBRANE INSTALLATION

PROJECT NAME: Midwest Generation Joliet Station Ash Pond 2

LOCATION: Joliet, IL

JOB NUMBER: 200754 CLIENT: Brieser Construction Company

AREA ACCEPTED: Entire area to be lined under panels P1 to P78

COMMENTS:

INSTALLER: The undersigned authorized representative of CAAW Systems certifies that he or she has visually inspected the subgrade surface of the area described above and has found the surface to be acceptable for installation of the geosynthetic materials.

CAAW Systems shall be responsible for the integrity of finished geosynthetic material until completion of the installation or demobilization from site.

This certification is based on observations of the subgrade surface conditions only. CAAW Systems has made no subterrain inspections or tests and makes no representations or warranties as to the conditions that may exist below the surface of the subgrade.

CERTIFICATE APPROVED BY:

Installers Acceptance		Inspectors Acceptance	
Company:	Clean Air And Water Systems, LLC	Company:	Brieser Construction Company
By:	Thong Ingels	By:	Mike Schmidt
Title:	Superintendent	Title:	Superintendent
Date:	5-6-08	Date:	5-6-08

ATTACHMENT A6

GEOMEMBRANE INSTALLATION CERTIFICATE (IMPOUNDMENT #1 AND #2)

November 17, 2008

Tedd Mills
Brieser Construction Company
24101 S. Municipal Drive
Channahon, IL 60410

RE: Midwest Generation Joliet Station – Installation Certification for Ash Pond 1

To Whom It May Concern,

This letter shall act as a certification to the geomembrane and geotextile installation at the above referenced project. The HDPE geomembrane and geotextiles installed in Ash Pond 1 were installed in accordance with the project specifications.

Sincerely,

Brian McKeown
Member
Clean Air And Water Systems, LLC

Corporate Office
123 Elm Street
P.O. Box 337
Dousman, WI. 53118-0337
(262) 965-4366 Fax (262) 965-4369

www.caawsystem.com

Regional Office
2727 W. 2nd St., Ste 235
Hastings, NE 68901
(402) 463-0857 Fax (402) 463-0858

July 10, 2008

Tedd Mills
Brieser Construction Company
24101 S. Municipal Drive
Channahon, IL 60410

RE: Midwest Generation Joliet Station – Installation Certification for Ash Pond 2

To Whom It May Concern,

This letter shall act as a certification to the geomembrane and geotextile installation at the above referenced project. The HDPE geomembrane and geotextiles installed in Ash Pond 2 were installed in accordance with the project specifications.

Sincerely,

Brian McKeown

Brian McKeown
Member
Clean Air And Water Systems, LLC

Corporate Office
123 Elm Street
P.O. Box 337
Dousman, WI. 53118-0337
(262) 965-4366 Fax (262) 965-4369

www.caawsystem.com

Regional Office
2727 W. 2nd St., Ste 235
Hastings, NE 68901
(402) 463-0857 Fax (402) 463-0858

ATTACHMENT A7

GEOMEMBRANE WARRANTIES

INSTALLATION WARRANTY- GEOMEMBRANE LINERS

PROJECT NAME: Midwest Generation – Joliet Station

Subject to the terms and conditions set forth below, Clean Air And Water Systems, LLC warrants to Purchaser, Brieser Construction, that the 60 mil HDPE white liner installed at the Midwest Generation – Joliet Station, was installed by Clean Air And Water Systems, LLC, in accordance with specifications in a good and workmanlike manner and that the installation of the liner is free from defects in workmanship for a period of two (2) years from the date upon which the material was installed.

This warranty covers only defects in workmanship occurring during the installation of the liner. This warranty does not cover ay damage to, or defects in the liner found to have been a result of misuse, abuse or conditions existing after it was installed, including, but not limited to, rough handling; malicious mischief; vandalism; sabotage; fire; acts of God; acts of the public enemy; acts of war, public rebellion, severe weather conditions of all types; damage due to ice; excessive stress from any source; floating debris; damage due to machinery; foreign objects or animals. Nor does this warranty cover any defects which are found to have been a result of improper or defective design or engineering unless the design or engineering was performed by Clean Air And Water Systems, LLC. In the event circumstances are found to exist which purchaser believes may give rise to a claim under this warranty, the following procedure shall be followed:

a) Purchaser shall give Clean Air And Water Systems, LLC written notice of the facts and circumstances of said claim within ten (10) days of becoming aware of said facts and circumstances. Said notice shall be by registered or certified mail, return receipt requested, postage prepaid, addressed to Member, Clean Air And Water Systems, LLC, 123 Elm Street, PO Box 337, Dousman, Wisconsin 53118. The words "WARRANTY CLAIM" shall be clearly marked on the face of envelope in the lower right hand corner. Said notice shall contain, at a minimum, the name and address of the owner, the name and address of the installation, the name and address of the installer, the date upon which the material was purchased and the facts known to Purchaser upon which the claim is based. Failure to strictly comply with all the requirements of this paragraph shall void this warranty.

b) Within twenty days after receipt of the notice described in paragraph a., above, Clean Air And Water Systems, LLC shall notify Purchaser either that it will send a representative to inspect the allegedly defective liner or that it does not wish to do so. Purchaser shall pay the expenses incurred by Clean Air And Water Systems, LLC in making the inspection, including current per diem rates for personnel involved in making the inspection, in the event Clean Air And Water Systems, LLC determines that the claim is not covered by this warranty.

c) Purchaser SHALL NOT REPAIR, REPLACE, REMOVE, ALTER OR DISTURB ANY LINER, NOR SHALL Purchaser ALLOW ANYONE ELSE TO REPAIR, REPLACE, REMOVE, ALTER, OR DISTURB ANY LINER PRIOR TO SUCH INSPECTION OR RECEIPT OF CLEAN AIR AND WATER SYSTEMS, LLC.'S NOTICE THAT IT ELECTS NOT TO INSPECT. A FAILURE TO STRICTLY COMPLY WITH THIS PARAGRAPH SHALL VOID THIS WARRANTY OR MAY LEAD TO A DETERMINATION THAT THE ALLEGED DEFECTS ARE NOT WITHIN THE SCOPE OF THIS WARRANTY.

d) If Clean Air And Water Systems, LLC determines that the alleged defects are covered by this warranty, Clean Air And Water Systems, LLC shall, in its sole discretion, either repair the defective liner or provide Purchaser with replacement liner. THE REMEDIES PROVIDED HEREIN ARE THE EXCLUSIVE REMEDIES AVAILABLE UNDER THIS WARRANTY. Any determination as to whether a particular

defect is covered by this warranty will be made by Clean Air And Water Systems, LLC in its sole and complete discretion.

e) Purchaser agrees that it shall provide Clean Air And Water Systems, LLC with clean, dry and unobstructed access to the liner in order for Clean Air And Water Systems, LLC to perform the inspections and warranty work which may be required pursuant to this warranty.

THE REMEDIES PROVIDED TO Purchaser HEREIN ARE THE EXCLUSIVE REMEDIES AVAILABLE UNDER THIS WARRANTY AND ARE INTENDED FOR THE SOLE BENEFIT OF Purchaser. NEITHER THIS WARRANTY NOR ANY RIGHTS HEREUNDER SHALL BE ASSIGNABLE. CLEAN AIR AND WATER SYSTEMS, LLC SHALL HAVE NO LIABILITY UNDER THIS WARRANTY TO THIRD PARTIES OR STRANGERS TO THIS AGREEMENT. THE WARRANTY SET FORTH ABOVE IS THE ONLY WARRANTY APPLICABLE TO THE LINER AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL CLEAN AIR AND WATER SYSTEMS, LLC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES FOR, RESULTING FROM, OR IN CONNECTION WITH, ANY LOSS RESULTING FROM THE USE OF THE LINER. IN THE EVENT THE EXCLUSIVE REMEDY PROVIDED HEREIN FAILS IN ITS ESSENTIAL PURPOSE, AND IN THAT EVENT ONLY, Purchaser SHALL BE ENTITLED TO RETURN OF THE PURCHASE PRICE FOR SO MUCH OF THE MATERIAL AS CLEAN AIR AND WATER SYSTEMS, LLC DETERMINES IN ITS SOLE DISCRETION, TO HAVE VIOLATED THE WARRANTY PROVIDED HEREIN. EXCEPT FOR THE WARRANTY SET FORTH ABOVE, NO REPRESENTATION OR WARRANTY MADE BY ANY SALES OR OTHER REPRESENTATIVE CLEAN AIR AND WATER SYSTEMS, LLC, OR ANY OTHER PERSON, CONCERNING THE LINER SHALL BE BINDING UPON CLEAN AIR AND WATER SYSTEMS, LLC.

Any waiver of the terms and conditions of this warranty shall be in writing signed by CLEAN AIR AND WATER SYSTEMS, LLC the failure to insist upon strict compliance with any of the terms and conditions contained herein shall not act as a waiver of strict compliance with all of the remaining terms and conditions or this warranty and shall not operate as a waiver as to any of the terms and conditions of this warranty as to future claims under this warranty.

CLEAN AIR AND WATER SYSTEMS, LLC

BY: Brian M-Keown, member

Brian K. McKeown/ Member

I have read and agree to be bound by the terms and conditions of the foregoing warranty.

By: Todd McC

Title: Vice President

Company: Bricor Construction

Date: 12-8-08

MWG13-15_49465

PRO RATA LIMITED MATERIAL WARRANTY
FOR GSE LINING TECHNOLOGY, INC.
Geomembrane Products
(U.S.A.)

Date:	11/19/2008	Warranty No.:	524244
Purchaser Name:	Midwest Generation	Project No.:	524244
Address:	1800 Channahon Rd.	Effective Date:	10/6/2008
City, State:	Joliet, IL 60436	Project Name:	Midwest Generation
Product Type/Description:	GSE HDT Geomembrane	Project Address:	1800 Channahon Rd., Joliet, IL 60436

GSE Lining Technology, Inc. ("GSE") warrants each GSE product described above to be free from material manufacturing defects (as described by the contract's material specifications) and to be able to withstand normal weathering for a period of two (2) years from the date of sale. This limited warranty does not include damages or defects in the GSE product resulting from acts of God, casualty or catastrophe, including but not limited to: earthquakes, floods, piercing hail, tornadoes or force majeure. The term "normal use" does not include, among other things, the exposure of GSE's product to harmful chemicals, abuse by machinery, equipment or people; improper site preparation or placement of cover materials; excessive pressures or stresses from any source. This warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson-Moss Warranty Act.

Should defects or premature loss of use within the scope of this warranty occur, GSE will, at its option, repair or replace the GSE product on a pro rata basis at the current price in such manner as to charge the Purchaser only for that portion of the warranted life which has elapsed since the purchase of the product. GSE shall have the right to inspect and determine the cause of the alleged defect in the product and to take appropriate steps to repair or replace the product if a defect exists that is covered under this warranty.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail or courier, to GSE Lining Technology Co., 19103 Gundle Road, Houston, TX 77073, with the words "Warranty Claim" clearly marked on the face of the envelope, within ten (10) days of Purchaser becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have rights under this warranty. GSE shall not be obligated to perform any inspection or obligated to perform any repair or replacement under this warranty until the area is made available free from all obstructions, water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this warranty, Purchaser shall reimburse GSE for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the product as GSE determines to have violated the warranty provided herein. GSE shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to: damages for loss of production, lost profits, personal injury or property damage. GSE shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser to GSE's product, unless GSE specifically authorized, in writing, said repairs, replacements, modifications or alterations in advance. GSE liability under this warranty shall in no event exceed the replacement cost of the product sold to the Purchaser for the particular installation in which it failed.

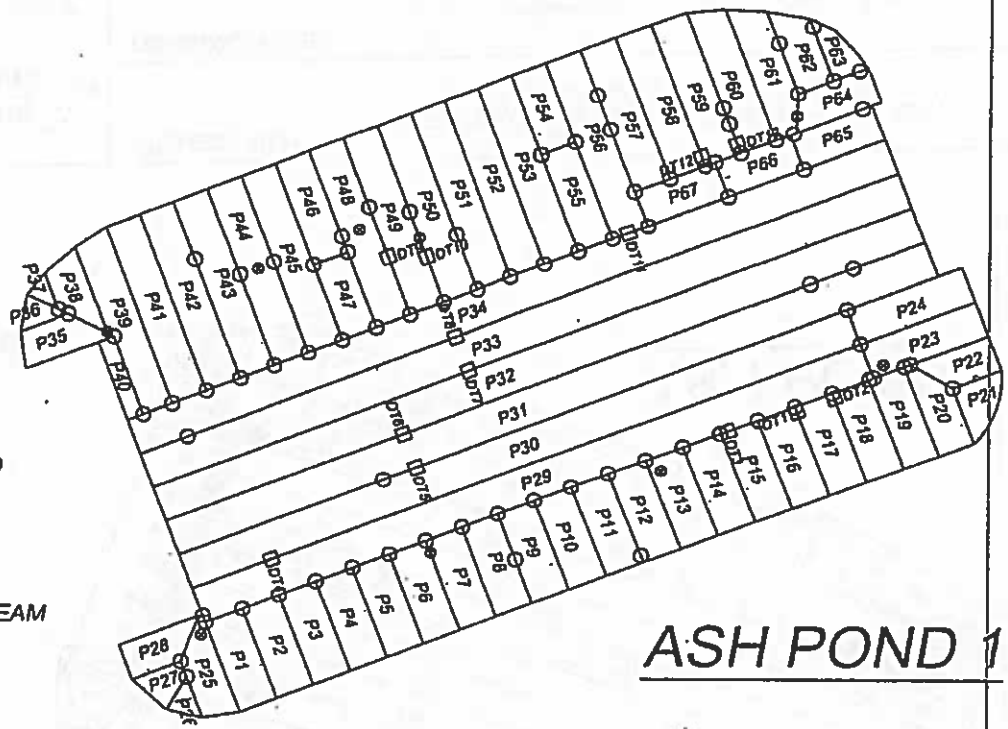
GSE neither assumes nor authorizes any person other than an officer of GSE to assume for it any other or additional liability in connection with the GSE product made on the basis of the Limited Warranty. GSE MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN HEREIN AND HEREBY DISCLAIMS ALL WARRANTIES, INCLUDING BOTH EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, AND BY ACCEPTING DELIVERY OF THE PRODUCT, PURCHASER WAIVES ALL OTHER POSSIBLE WARRANTIES. GSE's WARRANTY BECOMES AN OBLIGATION OF GSE TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT.

This warranty is extended to the Purchaser and is non-transferable and non-assignable, i.e. there are no third-party beneficiaries to this warranty.

ATTACHMENT A8

GEOMEMBRANE AS-BUILT PANEL LAYOUT (IMPOUNDMENT #1 AND #2)

NORTH



ASH POND 1

LEGEND

○	PATCH / REPAIR WELD
□DT#	DESTRUCTIVE TEST
P#	PANEL NUMBER
⊗	PIPE BOOT
———	PANEL EDGE / FIELD SEAM

SCALE

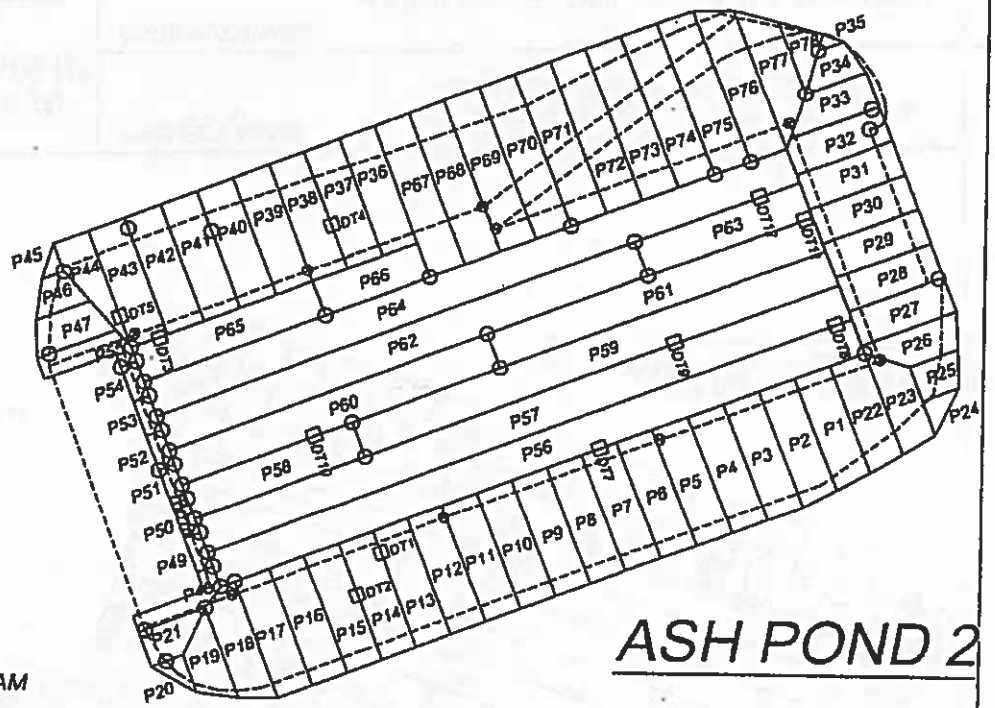
0 50 100

DRAWN BY M.A.	caawsystems.com "You create it, we'll contain it"	PROJECT NAME: MIDWEST GENERATION - JOLIET STATION #29 ASH IMPOUNDMENT CONSTRUCTION	
SCALE 1"=100'		DRAWING NAME: AS BUILT HDPE PANEL LAYOUT FOR ASH POND 1	
JOB #	123 ELM STREET PO BOX 337 DOUSMAN, WI 53118 262-965-4366 FAX: 262-965-4369	LOCATION: JOLIET, IL	DRAWING NUMBER: ABPOND1
DATE 10-24-08	Clean Air And Water Systems, LLC		FILENAME: MIDWEST GENERATION

MWG13-15_49468

Submittal #26

NORTH



ASH POND 2

LEGEND

- ○ PATCH
- □DOT# DESTRUCTIVE TEST
- P# PANEL NUMBER
- ⊗ PIPE BOOT
- ——— PANEL EDGE / FIELD SEAM

SCALE

0 50 100

DRAWN BY M.A.	caawsystems.com "You create it, we'll contain it"	PROJECT NAME: MIDWEST GENERATION - JOLIET STATION #29 ASH IMPOUNDMENT CONSTRUCTION	
SCALE 1"=100'		DRAWING NAME: AS BUILT HDPE PANEL LAYOUT FOR ASH POND 2	
JOB #		LOCATION: JOLIET, IL	DRAWING NUMBER: ABPOND2
DATE 6-6-08	Clean Air And Water Systems, LLC		FILENAME: MIDWEST GENERATION

123 ELM STREET
PO BOX 337
DOUSMAN, WI 53118
· 262-965-4366
FAX: 262-965-4369

MWGEN45_08469

ATTACHMENT A9

LEAK LOCATION SURVEY REPORT (IMPOUNDMENT #1 AND #2)

LEAK LOCATION SERVICES, INC.

16124 UNIVERSITY OAK • SAN ANTONIO, TEXAS 78249 • (210) 408-1241 / FAX (210) 408-1242

October 23, 2008

Mr. Tedd Mills
Brieser Construction Company
24101 S. Municipal Drive
Channahon, IL 60410

Fax: (815) 521-0999

Subject: Report for "Geomembrane Leak Location Survey of a pond Located at the Midwest Generation Joliet Station"
LLSI Project 1165

Dear Mr. Mills:

On October 20 and 21, 2008, Martin Morales of Leak Location Services, Inc. (LLSI) conducted a leak location survey of the subject pond. The pond has an area of approximately 2 acres and has a geotextile under a single 60-mil HDPE geomembrane. The geomembrane is covered with a non-woven geotextile, a 12-inch sand layer and a 5-inch warming layer. This report documents the report of the survey.

I. SURVEY

A Results

No leaks were found in the primary geomembrane liner of the pond. The leak location equipment was tested for sensitivity and proper operation. A 0.25-inch diameter artificial leak was buried in the soil and leak location survey lines were run along both sides of the artificial leak.

Leak location survey measurements were collected to determine the maximum distance that the simulated leak could be reliably detected. This detection distance was approximately 7.5 feet. Figure 1 shows the artificial leak data for the instrument that was used.

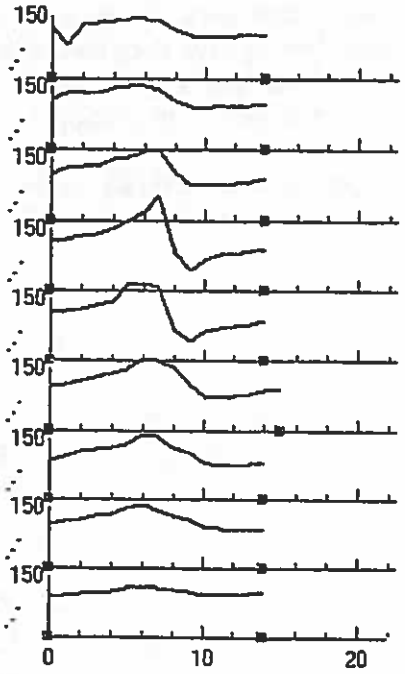


FIGURE 1. ARTIFICIAL LEAK DATA PLOT

II. TECHNIQUE

A. Principles of the Electrical Leak Location Method

The principle of the electrical survey method for geomembrane liners is to impress a high DC voltage across the liner and measure the resulting potential gradients on or in the conducting material on the liner. If any holes are present, characteristic anomalies in the potential measurements caused by electrical current flowing through the holes indicate their location.

B. Soil Covered Survey

A high voltage isolated DC power supply was used to impress a voltage across the liner using one electrode placed in the operations layer located on top of the primary liner and a second electrode placed in the electrically conducting material located beneath the liner. Therefore, the geomembrane liner provides an electrical barrier between the electrodes except where there are holes in the geomembrane liner. Electrical current flowing through the holes in the geomembrane liner produces localized anomalous areas of high current density near the holes. This electrical current path is provided by electrically conducting material such as water, sand, or soil.

The survey of the pond was conducted by making potential gradient measurements on the moist warming layer with measurement electrodes spaced approximately 3 feet apart. These measurements were made approximately every 3 feet along numbered survey lines that were spaced approximately 5 feet apart. A portable digital data logger was used to collect the data. The data was then down-loaded into a portable computer for display, plotting, and analysis.

If there are any questions regarding the electrical surveys or this report, please contact us at (210) 408-1241. We appreciate the opportunity to have been of service to Brieser Construction Company.

Very truly yours,

John Ortiz
Project Manager

Approved by:

Daren L. Laine
President

LEAK LOCATION SERVICES, INC.

16124 UNIVERSITY OAK • SAN ANTONIO, TEXAS 78249 • (210) 408-1241 / FAX (210) 408-1242

June 2, 2008

Ted Mills
Brieser Construction Company
24101 S. Municipal Drive
Channahon, IL 60410

Fax: 815-521-0999

Subject: Report for "Electronic Leak Location Survey for Ash Impoundment 2 at the Midwest Generation Joliet Station"
LLSI Project 1007

Dear Mr. Wells:

On May 22 and 23, 2008, Martin Morales of Leak Location Services, Inc. (LLSI) conducted the subject geomembrane leak location survey. The impoundment has an area of 3 acres and has a geotextile under a single 60-mil HDPE geomembrane. The geomembrane was covered with a non-woven geotextile, 12-inch sand layer and 5-inch warning layer. The geomembrane leak location survey was conducted after the warning layer was installed. This report documents the results of the leak location survey.

I. RESULTS

One leak was found. Figure 1 shows the approximate location of the leak. The leak was excavated and found to be an 8-inch by 4-inch tear. The leak was about 21 feet from the northwest edge of the floor and 245 feet from the northeast edge of the floor.

A 0.23-inch artificial leak was used to document the leak detection sensitivity. The artificial leak was a 0.23-inch electrode connected to an insulated wire. The other end of the wire was grounded. Leak location scans were made to determine the maximum distance that the artificial leak could be reliably detected. That distance was 10 feet.

II. TECHNIQUE

The electrical leak location method detects electrical paths through the liner caused by water or moisture in the leaks. A voltage is connected to one electrode in the material covering the liner and to an electrode connected to earth ground. Electrical current flowing through the leaks in the liner produces localized anomalous areas of high current density near the leaks. These areas are located by making electrical potential measurement scans on the material on the geomembrane liner.

Surveys with material covering the liner are conducted by making point-by-point potential measurements using special electrodes and a portable digital data acquisition system. The potential readings are made along survey lines with a fixed measurement electrode separation. The data is downloaded to a computer for storage and plotting. When a suspect area is located, manual measurements are made to further isolate the leak.

A systematic survey was conducted on the warning layer. Data was taken every 3 feet using a measurement electrode separation of 3 feet along survey lines spaced 5 feet apart. The data was

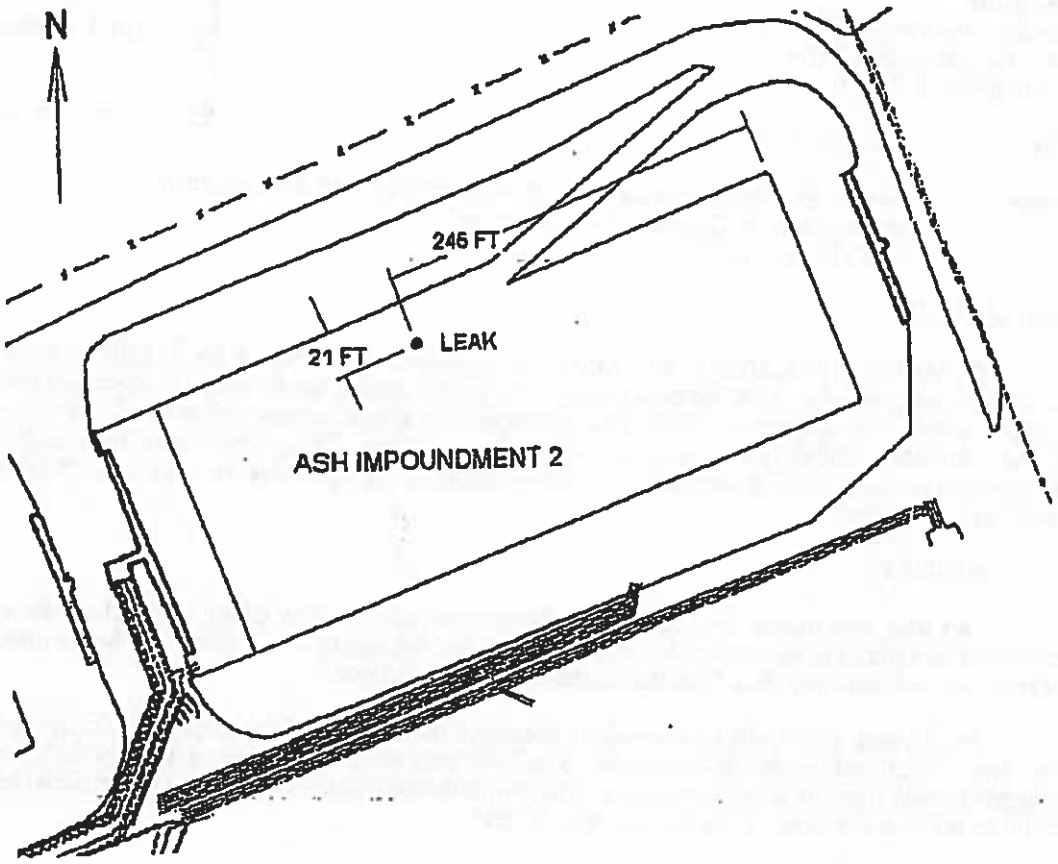


FIGURE 1. APPROXIMATE LOCATION OF THE LEAK

periodically downloaded to a computer for storage, plotting, and analysis for leak signals. Manual measurements were made to isolate the leak locations for excavation while the survey crew was on site. The leak was excavated and isolated from the materials on the geomembrane. Additional measurements were made to determine that there were no additional leaks in the area of the leak.

If there are any questions regarding the leak location survey or this report, please contact us at (210) 408-1241. We appreciate this opportunity to have been of service to Brieser Construction on this important service requirement.

Very truly yours,

Glenn T. Darilek

Glenn T. Darilek
Principal Engineer

MWG13-15_49475

ATTACHMENT B

FIELD DIRECTIVES

NATURAL RESOURCE TECHNOLOGY

FIELD DIRECTIVE: NO. 1

DATE: April 25, 2008

TO: Brian Delcorio, Midwest Generation, LLC

FROM: Eric J. Tlachac, Natural Resource Technology, Inc.

SUBJECT: **Modifications to Section B, Sheet C031 (Access Ramp)**
Ash Impoundment #2 Liner Replacement, Joliet 29 Station

Due to existing site conditions with regard to the presence and depth of the Poz-o-Pac liner on the access ramp of Ash Impoundment #2, modifications are required to the layers of materials that will be placed above the geomembrane, as depicted in Section B on Sheet C031. A revised version of Sheet C031 (Rev. 2) is included as part of this field directive.

The contractor shall clean off the Poz-o-Pac surface to the extent practical to remove rocks that may pose a hazard to the geomembrane before placing the 16-ounce (oz) geotextile over the subgrade surface. The contractor shall also place 2 layers of the 12-oz geotextile over the geomembrane liner on the ramp, rather than the single layer originally specified. If sand bags are not adequate to hold the top layer of geotextile in place until it is covered, the contractor may heat bond the upper layer to the lower layer of geotextile with adequate precautions to avoid adversely affecting the underlying geomembrane.

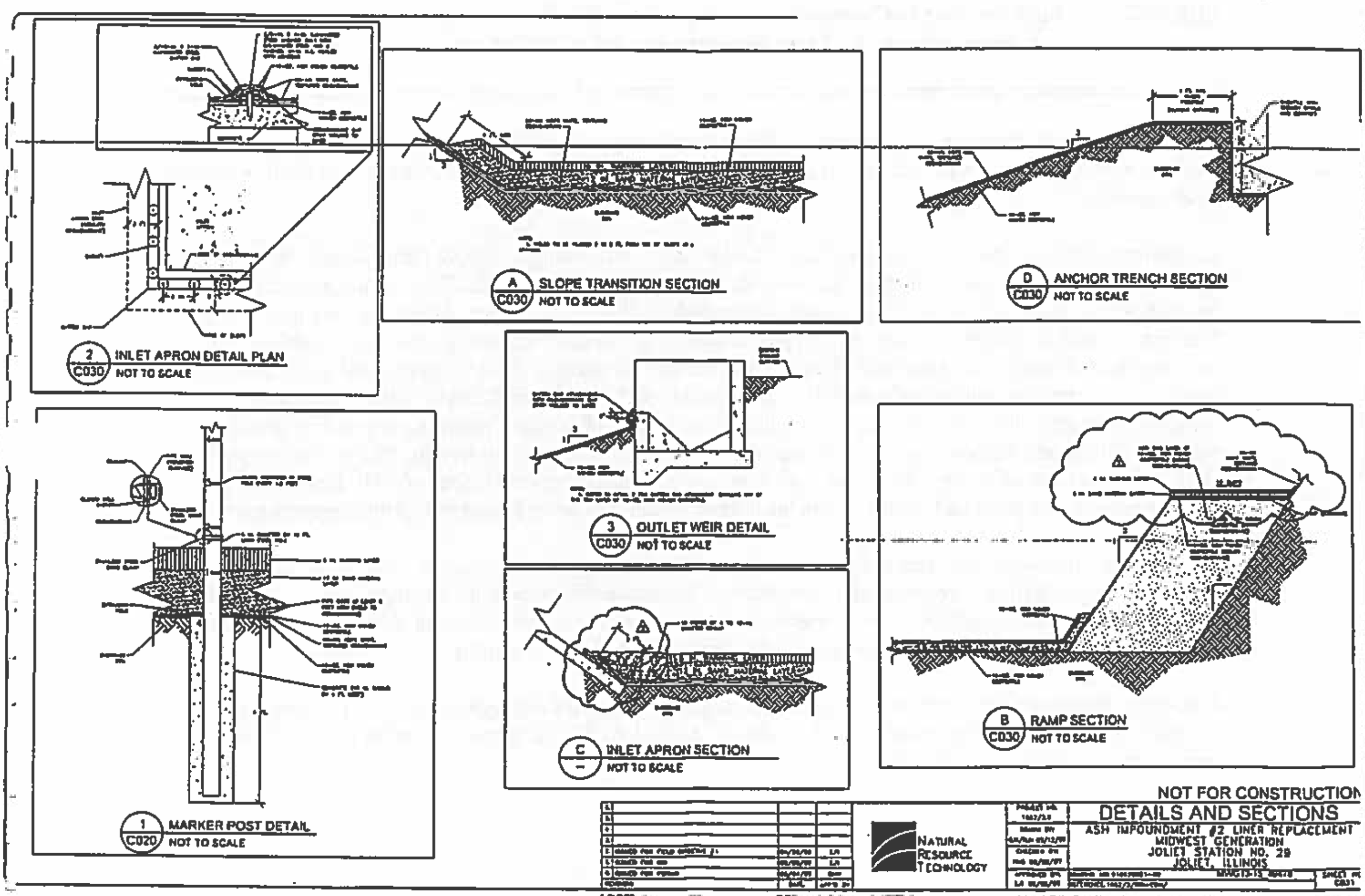
Regarding the cover material on the ramp, the existing ramp material is not sufficient to be re-used, and there is question whether there is sufficient quantity, so the contractor shall place 6 inches of limestone screenings (approved replacement material for the specified sand) over the geosynthetics and 6 inches of the warning layer material (IDOT CA-6) over the limestone screenings. These layers will likely need to be blended into a smooth grade transition at the top of the ramp. If the ramp material needs to be thinned to 6 inches or less, the cover should be completely comprised of limestone screenings.

Minor modifications have also been made to Section C on Sheet C031 (Inlet Apron Section) to reflect discussion at the Job Start Meeting on March 28, 2008 regarding concerns about the "flap" of geomembrane that extends beyond the batten strip on the concrete inlet apron. As you may recall, there was concern that this "flap" will accumulate ash and other sediment if too long, and possibly cause uplift of the batten strip. Section C has been modified to remove the specified dimension for this flap so that it may be completed at the installer's discretion in the field.

As always, contractor comments are welcome and should be discussed / approved with the field construction quality assurance (CQA) engineer on site prior to modifying the approach described above. Should the field CQA engineer not be on site when concerns arise, please contact me at 262-522-1214.

Enclosure: Sheet C031, Details and Sections, Rev. 2

23713 W. Paul Rd., Ste. D • Pewaukee, WI 53072 • Phone: 262.523.9000 • Fax: 262.523.9001 • www.naturalrt.com


A
C030
SLOPE TRANSITION SECTION
NOT TO SCALE
D
C030
ANCHOR TRENCH SECTION
NOT TO SCALE
2
C030
INLET APRON DETAIL PLAN
NOT TO SCALE
3
C030
OUTLET WEIR DETAIL
NOT TO SCALE
1
C020
MARKER POST DETAIL
NOT TO SCALE
C
INLET APRON SECTION
NOT TO SCALE
B
C030
RAMP SECTION
NOT TO SCALE
NOT FOR CONSTRUCTION
NATURAL RESOURCE TECHNOLOGY
DETAILS AND SECTIONS
ASH IMPOUNDMENT #2 LINER REPLACEMENT
MIDWEST GENERATION
JOLIET STATION NO. 29
JOLIET, ILLINOIS

NATURAL RESOURCE TECHNOLOGY

FIELD DIRECTIVE: NO. 2

DATE: September 10, 2008

TO: Brian Delcorio, Midwest Generation, LLC

FROM: Heather M. Simon, Natural Resource Technology, Inc.

SUBJECT: **Modifications to Geomembrane Anchor Trench**
Ash Impoundment # 1 Liner Replacement, Joliet 29 Station

Due to existing site conditions with regards to limited access and the presence of large stones along the south bank top of slope of Ash Impoundment #1, modifications are required to the anchor trench depicted in Section D, Sheet C031.

The contractor shall construct the anchor trench at the top of slope along the south bank, despite the fact that there will be less than 4 feet of horizontal runout distance for the geosynthetics. The contractor shall remove the large stones at the top of the slope to approximately 2 feet below the current ground surface in this area. The contractor shall construct berms at the top of slope using limestone screenings to create a minimum 2-foot deep anchor trench along the south bank. The limestone screenings shall be compacted in 12-inch lifts. Limestone screenings shall be compacted to a hard durable surface that exhibits no further noticeable consolidation under the action of compaction equipment and no evidence of pumping or ponding of water. Engineer will inspect compaction every 25 feet along the length of the anchor trench. The contractor shall place the geosynthetics in the constructed trench, as depicted on in Section D, Sheet C031. Limestone screenings shall be placed and compacted in the anchor trench following placement of the geosynthetics.

Areas where large stones are removed from the anchor trench along the east, west or north banks shall be backfilled with limestone screenings and compacted. Compaction requirements, as stated above. Contractor shall remove stones that protrude from the sides of the trench and may pose a hazard to the geomembrane. The large stones removed from the trench shall be disposed at MWG's direction.

As always, contractor comments are welcome and should be discussed / approved with the field engineer on site prior to modifying the approach described above. Should the field engineer not be on site when concerns arise, please contact me at 262-522-1207.

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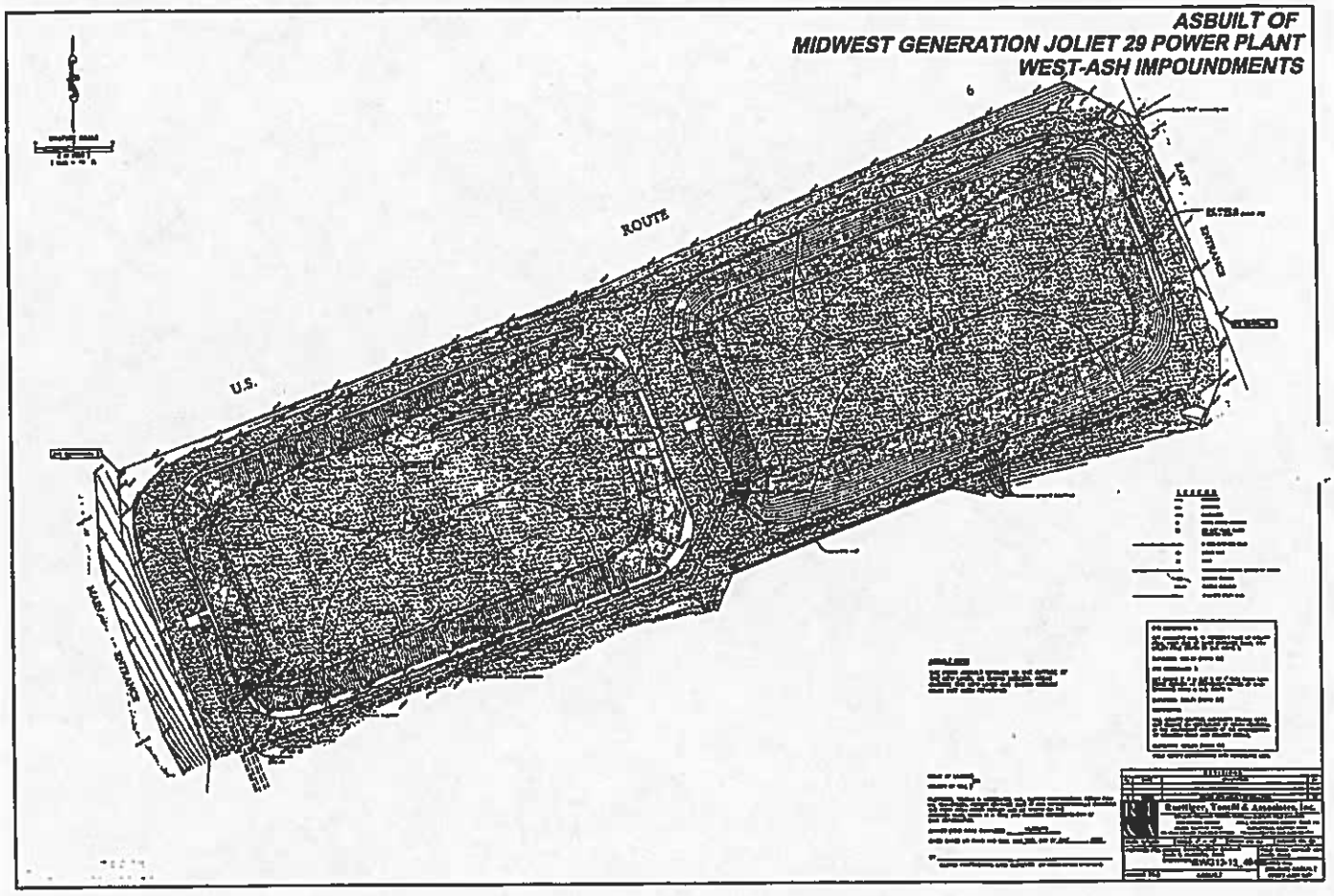
ATTACHMENT C

ASH IMPOUNDMENT #1 AND #2
DOCUMENTATION SURVEY


ASBUILT OF
MIDWEST GENERATION JOLIET 29 POWER PLANT
WEST-ASH IMPOUNDMENTS
ROUTE
U.S.
EAST
ENTRANCE

ATTACHMENT D

NRT CQA DAILY FIELD REPORTS

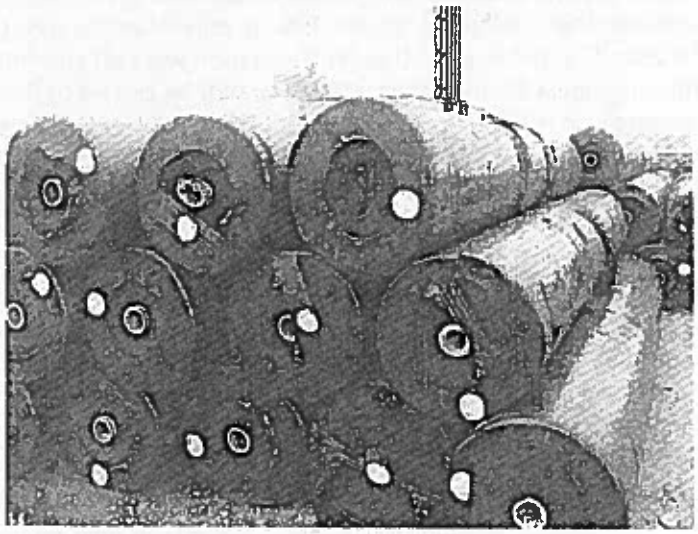
FIELD NOTE SUMMARY

Project Number / Task: 1862/5.1
Project Names: Impoundment #2 liner replacement

Date:	April 28, 2008
Work Scope:	Subgrade Inspection and roll QC – Impoundment #2
NRT Staff:	Rick Guenther
Contractors:	Brieser Construction and Clean Air and Water
Weather:	Rain and windy, low 40's (°F)
Equipment:	Digital camera
Field Comments:	• I arrive on site around 0800, checked in at gate house. • Gate house called Brian Delcorio to let him know I was here. • I went up to Brian's office and received the site specific training. • After meeting with Brian, I went over to pond #2 and walked the base and side slopes to inspect the subgrade (see photo). • The subgrade looked good, except one spot on the slope had a foot wide hole. I notified Brian and Brieser, Brieser said that they would fill it in. • Talked with Thong Ingels (Clean Air) and he said that the subgrade was fine just needed to get it dry. • Before leaving, I recorded the roll numbers for the geotextile and geomembrane (see photo). • Offsite around 1030, arrived at office 1330
Scope Changes: (Problems, Additional Hours, etc...)	• None
Site Conditions: (Needed Well repairs, borehole seals, system condition, etc...)	• Wet from Rain
Soil/Water Stored On-site:	• None
Summary of Forms Attached:	• None

Signature: _____ Date: 4-28-8
Ricky J. Guenther Jr.

Subgrade looking southwest



Rolls of HDPE liner

FIELD NOTE SUMMARY

Project Number / Task: 1862/5.1
Project Names: Impoundment #2 liner replacement

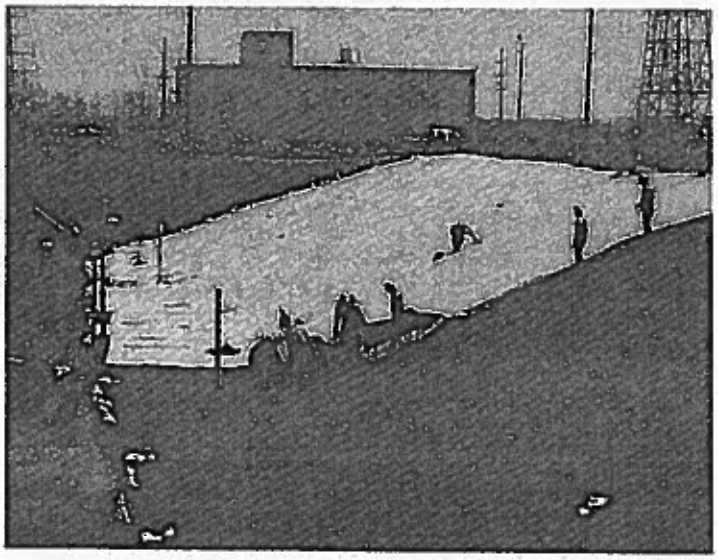
Date:	April 30, 2008
Work Scope:	Discuss liner batten location on concrete inlet with Clean Air and Water and Brian Delcorio – Impoundment #2
NRT Staff:	Glenn Luke
Contractors:	Brieser Construction and Clean Air and Water
Weather:	Sunny, low 50's (°F)
Equipment:	Digital Camera
Field Comments:	• Arrived onsite at approximately 9:30 a.m. Had safety training and inspection at the Gate House. • Met with Brian for additional safety training in the Administrative building. • Met with Thong Ingels (Clean Air), Mike Schmidt (Brieser), and Brian regarding the batten on Pond #2 concrete inlet. • It was decided that the batten would be installed on the top of the concrete inlet on the flat section directly outside of the weir (see photos). Brieser, Clean Air, and Midwest Generation were all comfortable with this alignment for the batten. The liner will be carried to the top of the concrete for battening. The liner (and 16 oz. fabric) will be carried continuously over the curb on the edges of the concrete. The contractor (Brieser) indicated that they would put an extra strip of 16 oz. over the curb for added protection. • Brieser also expressed concern about placing the rip rap directly on the liner (and fabric). They asked if they could place a 4-6 inch layer of screenings prior to the rip rap, I discussed with Eric Tlachac and we agreed that this would be fine. • Obtained Mike Schmidt's (Brieser on-site supervisor) contact info so that he could contact Eric Tlachac directly to discuss overall liner installation procedures, etc. Mike Schmidt Phone: 815-693-3337. • Took photos of pond #1 as it was receiving water/bottom ash. • Contractor was installing 16 oz. fabric and 60 mil liner on the slopes. • Offsite approximately 13:00.
Scope Changes: (Problems, Additional Hours, etc...)	• Liner to be installed to the top of slope below the weir on the concrete inlet. Batten installed directly outside of the weir and to the top edge of concrete on the end wings. The liner will be carried over the curbs on the edge of the concrete. The contractor indicated that they would place and extra section of 16 oz. fabric over the curb for added protection. The contractor will place a 4-6 inch layer of screening beneath the rip rap.
Site Conditions: (Needed repairs, system condition, etc...)	• Subgrade at pond bottom improving.

Soil/Water Stored On-site:	• None
Summary of Forms Attached:	• None

Signature: Glenn R. Luke. Date: April 30, 2008

Signature: _____ Date: _____

Inlet weir



Installation of liner at SE corner of Impoundment #2

FIELD NOTE SUMMARY

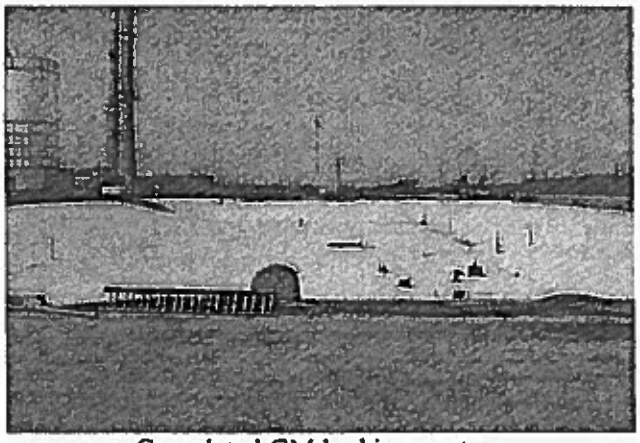
Project Number / Task: 1862/5.2
Project Names: Midwest Generation (MWG) Joliet 29 Ash Impoundment #2 Liner Replacement

Date:	May 6, 2008 (Tuesday)
Work Scope:	Site visit to observe / document geomembrane (GM) installation
NRT Staff:	Eric Tlachac
Contractors:	Brieser Construction (General Contractor) and Clean Air & Water Systems, LLC (CAAWS, subcontracted GM installer)
Weather:	Sunny, light winds, temps in the 70s (°F)
Equipment:	Digital Camera
Field Comments:	10:30 - Arrived at site at (following 3 hrs travel) o CAAWS performing detail work (marker post boots, seam intersections, destructive sample patches), production seaming appears to be complete and tested o Brieser loading out anchor trench spoils, backfilling anchor trench on north side of pond with limestone screenings utilizing Bobcat T300 skidsteer loader equipped with rubber tracks, and compacting with Bomag BMP-851 walk-behind sheepsfoot compactor o Mike Schmidt (Brieser foreman) advised that he tentatively planned (weather dependent – rain forecasted for tonight / tomorrow) to begin placing limestone screenings on ramp tomorrow and will hold in place with sandbags from GM installation o Other contractor equipment on site: • Brieser • CAT 420E-IT rubber-tired backhoe (for excavating anchor trench) • Airman PDS-185S air compressor (for drilling marker post holes) • CAAWS • Geomembrane seaming devices (wedge and extrusion welders), rubber-tired All Terrain Vehicle (for GM deployment), 5-kW portable generators • CAT TL943 forklift (for GM deployment) 12:45 - Met with Brian Delcorio (MWG PM) at his office to discuss project status and went out to pond to meet with Thong Ingels (CAAWS foreman), but Thong was off site to pick up additional sealant for boots and batten bar connections

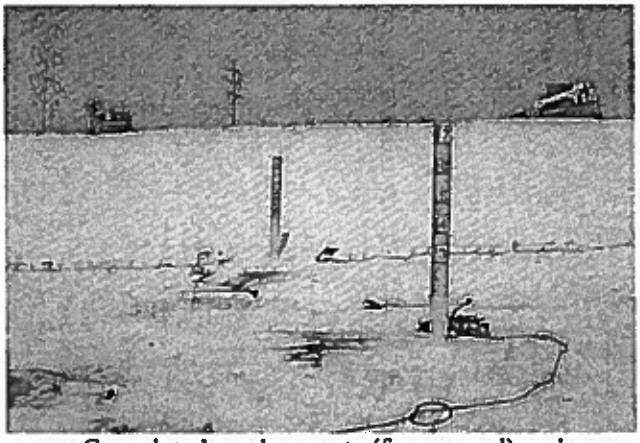
	15:00 - Discussed GM connection to concrete inlet structure with Brian Delcorio, Mike Schmidt, and Thong Ingels o Design was modified last week to move GM connection from bottom of concrete inlet apron to top due to concerns expressed by CAAWS regarding quality of GM connection on rough concrete surface below water line. This change was mutually agreed to by CAAWS, Brieser, NRT, and MWG. MWG reported incurring a change order for this valued at approximately $10,000 for 1 additional roll of GM to cover the inlet apron. o MWG and NRT now concerned about ability of exposed GM to withstand inlet flows on apron before bottom ash accumulates. Both observed flows at Pond 1 (currently in service). NRT photographed same. o NRT continued discussions with Brieser and CAAWS regarding GM connection at inlet 17:45 – Leave site
Scope Changes: (Problems, Additional Hours, etc...)	None yet, but MWG has concerns over stability of GM against inlet flows, another design modification may be forthcoming
Site Conditions: (Needed Well repairs, borehole seals, system condition, etc...)	GM installed appears in good condition, CAAWS unable to produce quality control records (claimed they were left at hotel)
Soil/Water Stored On-site: (Prior & newly generated) (containers – conditions, labeling, location)	None – Brieser loading out anchor trench spoils and transporting to MWG disposal site (Lincoln Quarry)
Summary of Forms Attached:	Photos

Signature: Eric J. Tlachac Date: May 6, 2008

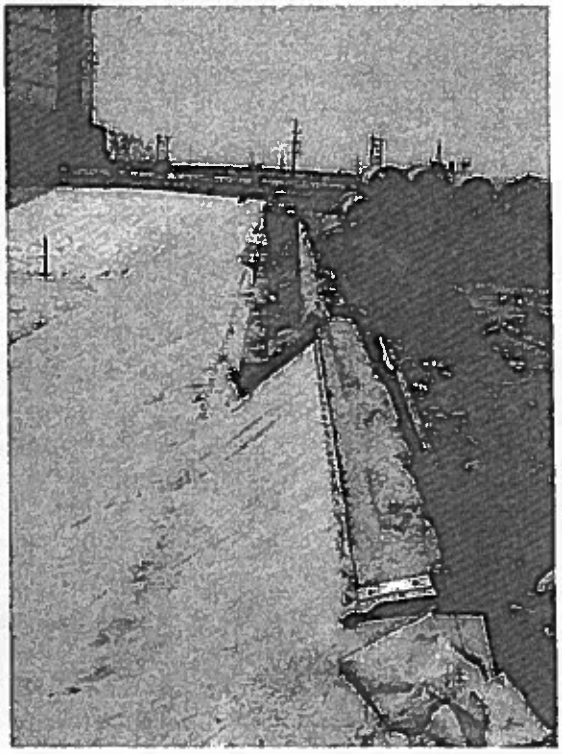
Eric J. Tlachac



Completed GM looking west



Completed marker posts (foreground) and anchor trench backfill (background)



GM inlet connection

FIELD NOTE SUMMARY

Project Number / Task: 1862/5.2

Project Names: Midwest Generation (MWG) Joliet 29 Ash Impoundment #2 Liner Replacement

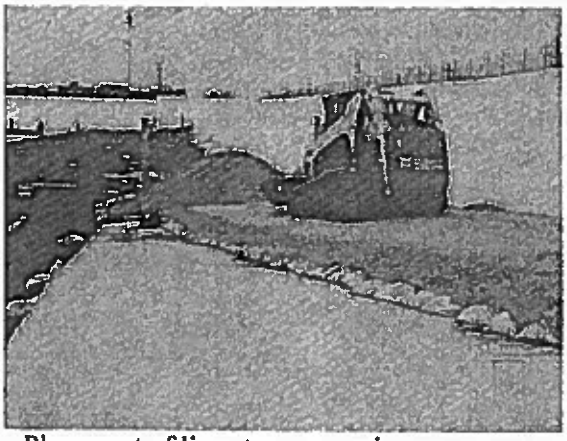
Date:	May 8, 2008 (Thursday)
Work Scope:	Site visit to observe / document geomembrane (GM) installation and cushion layer placement
NRT Staff:	Eric Tlachac
Contractors:	Brieser Construction (General Contractor) and Clean Air & Water Systems, LLC (CAAWS, subcontracted GM installer)
Weather:	Cloudy, temps in the 50s (°F), NE winds 15-25 mph
Equipment:	Digital Camera
Field Comments:	7:45 - Arrived at site at (following 2.5 hrs travel) o Brieser pumping water from bottom of pond to facilitate placement of geotextile (GT). No work performed yesterday due to rain event. Also placing / compacting limestone screenings and dense-graded aggregate on ramp over double-layer of GT utilizing Bobcat T300 skidsteer loader equipped with rubber tracks and Case SV210 smooth-drum compactor o CAAWS continuing detail work (marker post boots, GM connection to outlet structure, re-working GM connection to inlet structure) and installing GT portion of cushion layer ▪ MWG decided yesterday to move GM connection from top of concrete inlet apron to back to bottom (as originally designed) due to concerns regarding ability of exposed GM to withstand inlet flows on apron before bottom ash accumulates. MWG reported incurring a change order for this to cover additional labor associated with re-working the batten bar. ▪ Observed gaps in batten bar on outlet structure, informed Thong Ingels (CAAWS foreman) and batten bars were re-positioned to minimize gaps 12:45 - Met with Brian Delcorio (MWG PM) at his office to discuss project status. Brian indicated that Brieser may seek a change order for additional limestone screenings due to the fact that the bottom of the pond is uneven (thus requiring additional material to construct a flat warning layer surface and meet minimum thickness requirements). In order to quantify the amount of limestone screenings included in Brieser's lump sum bid, Brian and I measured the dimensions of Pond 2 utilizing a measuring wheel provided by CAAWS, and I calculated the tonnage in a 1-ft layer of limestone screenings assuming a conversion of 1.8 tons / cubic yard (see attached calc). The result was approximately 5,000 tons. Brian then utilized this value in negotiations with Brieser, which resulted in the instruction to place the limestone screenings to the specified thickness regardless of the final pond elevation.

	Brieser expressed concern over the difficulty of executing this instruction given the variability in the bottom surface of the pond, and believed that, even with diligent grade control, they would still wind up placing more limestone screenings than allowed for in their bid. 14:30 – Mutually decided with CAAWS to attach the GM to the south side of the inlet apron approximately 10-12 ft north of (in from) the edge to avoid the large "pit" located at the south edge of the apron beneath an 18-inch pipe that discharges vertically onto the apron. This will require relocation of the pipe so that it does not discharge onto the GM. Advised Brian Delcorio accordingly, and he concurred with the modifications to the GM attachment and discharge pipe. Brian will arrange internally to have the discharge pipe relocated. 16:00 – observe / photograph completion of GM connection on inlet apron, placement of GT portion of cushion layer, and placement of limestone screenings at bottom of ramp. Discuss placement of limestone screenings with Mike Addenall (Brieser superintendant?). Traffic cones will be utilized to mark 12-inch thickness to aide the operator spreading the screenings with the skidsteer. I requested that trucks transporting screenings back down the ramp to dump to minimize turning on the GM. Mike Addenall and Mike Schmidt agreed. 18:45 – Leave site.
Scope Changes: (Problems, Additional Hours, etc...)	GM connection on concrete inlet apron was moved from top of apron back to the bottom of the apron (as originally designed) due to MWG concerns regarding ability of exposed GM to withstand inlet flows on apron before bottom ash accumulates.
Site Conditions: (Needed Well repairs, borehole seals, system condition, etc...)	Bolts from former batten bar attachment at top of concrete inlet apron need to be cut flush with the apron. Informed Brian Delcorio (MWG) via phone on 5/9.
Soil/Water Stored On-site: (Prior & newly generated) (containers – conditions, labeling, location)	None
Summary of Forms Attached:	Photos

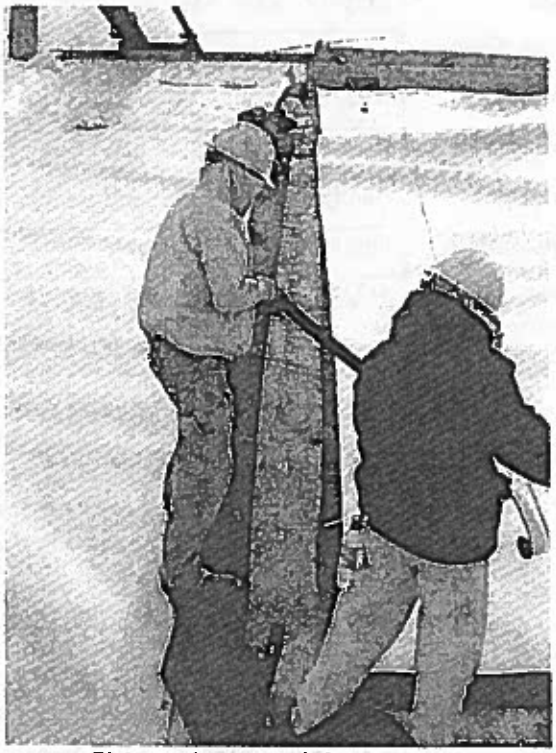
Signature: Eric J. Tlachac Date: May 8, 2008

Eric J. Tlachac

GM attachment to outlet structure



Placement of limestone screenings on ramp



GM attachment to inlet structure

FIELD NOTE SUMMARY

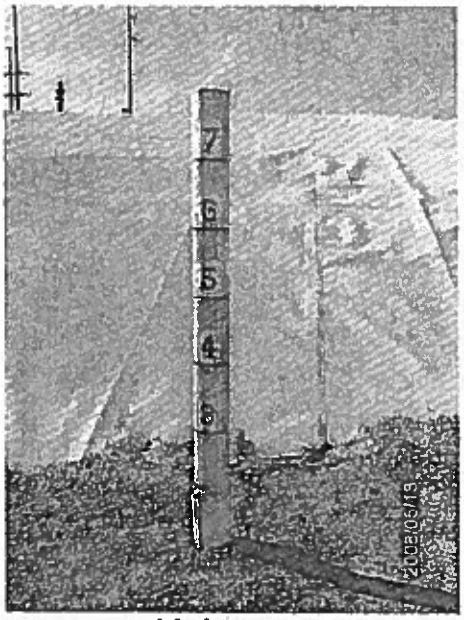
Project Number / Task: 1862/5.1
Project Names: Impoundment #2 liner replacement

Date:	May 22, 2008, May 23, 2008
Work Scope:	Leak detection survey and leak repair oversight – Impoundment #2
NRT Staff:	Rick Guenther
Contractors:	Brieser Construction and Clean Air and Water
Weather:	Sunny, low 60's (°F) and Sunny, low 50's (°F)
Equipment:	Digital camera
Field Comments:	5/22 Leak Detection Survey • I arrive on site around 0800, checked in at gate house. • Talked with Brian (MWG), Mike (Brieser), and leak location surveyor at the pond. • Setup transects every 10 feet across the length of the pond. • The machine was calibrated to a ¼ inch hole. • The leak location surveyor walked transects at each line and at the half way point. Every hundred or fifty feet he downloaded the data to the laptop and checked for leaks. • One hole was found around 245 feet from the discharge weir. • Brieser and I dug out the leak after it was more precisely marked by the surveyor. It appeared that the liner was punctured by the construction equipment when placing the cushion layer/limestone screenings. • There was one other hole in the southeast corner of the pond where an operator hit the side slope with the construction equipment. • Offsite around 1530 5/23 Leak Repairs • I arrived on site around 0900, checked in at gate house. • Took a couple more photos of the two holes prior to Clean Air and Water arriving. • Clean Air and Water placed a patch on each location. • Offsite 1030
Scope Changes: (Problems, Additional Hours, etc...)	• None
Site Conditions: (Needed repairs, system condition, etc...)	• Good
Soil/Water Stored On-site:	• None
Summary of	• None

Summary of Forms Attached:	• None

Signature: _____ Date: 5.23.8

Ricky J. Guenther Jr



Marker post

Warning layer looking west at inlet

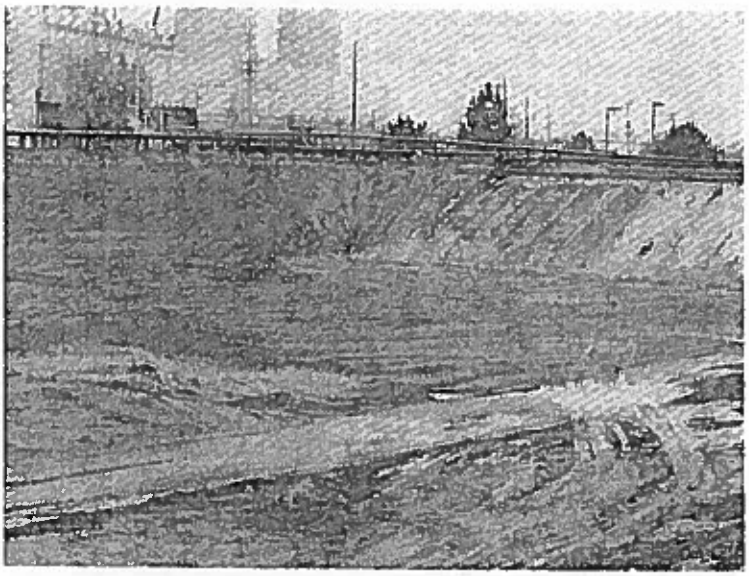
Leak location surveyor and equipment

FIELD NOTE SUMMARY

Project Number / Task: 1862/5.2
Project Names: Impoundment #1 liner replacement

Date:	September 12, 2008
Work Scope:	Subgrade Inspection – Impoundment #1
NRT Staff:	Rick Guenther
Contractors:	Brieser -Bill
Weather:	Rain and windy, low 70's (°F)
Equipment:	Digital camera
Field Comments:	• I arrive on site around 0930, checked in at gate house. • Gate house called Elsie to let her know I was here. • I went over to pond #1 and walked the base and side slopes to inspect the subgrade. • The subgrade was not complete at this time. • I talked with Bill (Brieser) and he said that he had stopped work until they could talk to us about the subgrade. He notified me that the material was wet under the top couple inches and equipment was sinking in when moving material around. He wanted to see if we had any suggestions or comments about the bottom being soft. Brieser doesn't want to be responsible if the liner gets ripped if the equipment hits a soft spot when placing the limestone screenings. • Offsite around 1100
Scope Changes: (Problems, Additional Hours, etc...)	• Brieser wanted to discuss wet material on subgrade not to do the subgrade inspection for approval.
Site Conditions: (Needed Well repairs, borehole seals, system condition, etc...)	• Wet from Rain
Soil/Water Stored On-site:	• None
Summary of Forms Attached:	• None

Signature: _____ Date: 9.12.8
Ricky J. Guenther Jr.



Subgrade looking southwest

North side slope looking east

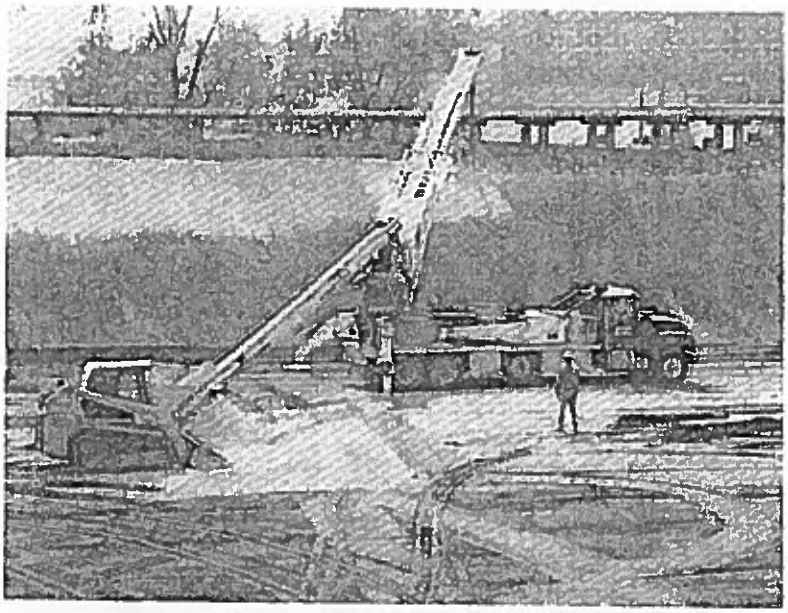
.FIELD NOTE SUMMARY

Project Number / Task: 1862/5.2
Project Names: Impoundment #1 liner replacement

Date:	September 25, 2008
Work Scope:	Subgrade Inspection – Impoundment #1
NRT Staff:	Rick Guenther
Contractors:	Brieser Construction -Bill
Weather:	Rain and windy, low 70's (°F)
Equipment:	Digital camera
Field Comments:	• I arrive on site around 1100, checked in at gate house. • Walked the base and side slopes of pond #1 to inspect the subgrade. • Brieser was working on the anchor trench on the north side of the pond and working on the berm on the south end of the pond. • I talked with Bill (Brieser) and he said that they would be ready by Monday for the liner crew. • They will finish the anchor trench on the north side today and have the berm compacted and complete by Monday. • Once the berm is complete they will continue compaction of the bottom of the pond. • They will also be walking the site to remove large rocks. • I told him that they needed to fix the slope transition from the side slope to the bottom of the pond so the liner can lay down smooth. • Told him that they are responsible for completing the marker posts. • They will also be fixing some washouts in the NE corner side slopes. • Subgrade is looking good, mostly clean up and finish work left. • Offsite around 1530
Scope Changes: (Problems, Additional Hours, etc...)	• none
Site Conditions: (Needed repairs, system condition, etc...)	• In good condition, working on finishing up.
Soil/Water Stored On-site:	• None
Summary of Forms Attached:	• None

Signature: Rick T. Guenther Date: 9-25-8

Rjcky J. Guenther Jr.



Placement of anchor trench berm along top of south bank

North anchor trench

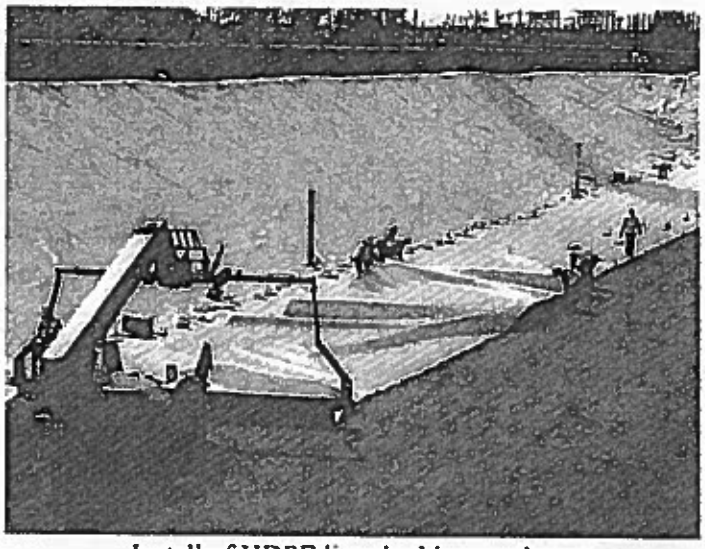
Prepared subgrade looking west

FIELD NOTE SUMMARY

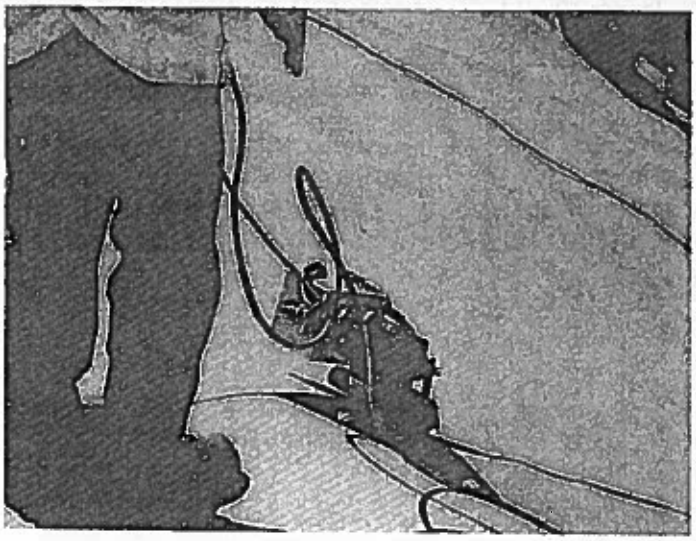
Project Number / Task: 1862/5.2
Project Names: Joliet 29 Impoundment #1 liner replacement

Date:	October 1 and 2, 2008
Work Scope:	Liner Installation Inspection – Impoundment #1
NRT Staff:	Heather Simon
Contractors:	Brieser Construction -Bill
Weather:	Partly Sunny 60s degree F
Equipment:	Digital camera
Field Comments:	10/1 • I arrive on site around 1100, checked in at gate house. • I went over to pond #1 to observe deployment of the liner on the southeast corner. • Liner installation was completed along the entire length of south bank today. At the end of day, liner was deployed at base of pond along southern edge up to the outlet. • Field seam tests were conducted. • Began installation of pipe boots. • Batten bars deployed along base of inlet apron. • Left site at 1600 10/2 • I arrive on site around 700 • Brieser backfilling south anchor trench with conveyor system. • I talked with Bill (Brieser) about compaction of the anchor trench backfill. • Crew deploying liner at base of pond. Left site at 1030
Scope Changes: (Problems, Additional Hours, etc...)	• None
Site Conditions: (Needed Well repairs, borehole seals, system condition, etc...)	• In good condition, compaction of anchor trench backfill required
Soil/Water Stored On-site:	• None
Summary of Forms Attached:	• None

Signature: Heather M Simon Date: 10/3/08
Heather Simon



Install of HDPE liner looking southwest



Thermal fusion welding apparatus

FIELD NOTE SUMMARY

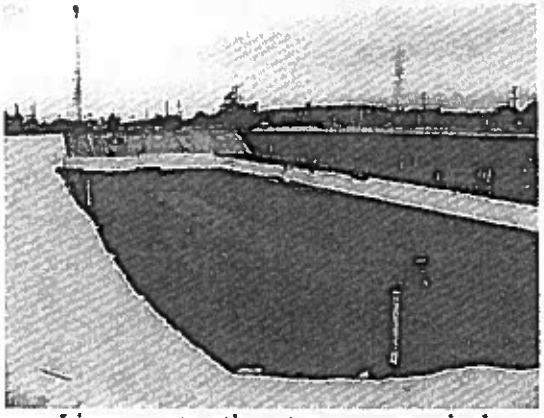
Project Number / Task: 1862/5.2

Project Names: Midwest Generation (MWG)
Joliet 29 Ash Impoundment #1
Liner Replacement

Date:	October 3, 2008 (Friday)
Work Scope:	Site visit to observe / document geomembrane (GM) installation and cushion layer placement
NRT Staff:	Eric Tlachac
Contractors:	Brieser Construction (General Contractor) and Clean Air & Water Systems, LLC (CAAWS, subcontracted GM installer)
Weather:	Partly cloudy, temps in the 50s (°F), E winds 5-10 mph
Equipment:	Digital Camera
Field Comments:	8:30 - Arrived at site at (following 3 hrs travel) , required to watch safety video by site security o Brieser excavating anchor trench at top of ramp with New Holland E150LC hydraulic excavator; later in day, Brieser assists CAAWS with GM and GT deployment and backfill of anchor trench on north side of pond ▪ Limestone screenings backfill in anchor trench on south side of pond not compacted. Advised Billy (Brieser foreman) that anchor trench backfill needed to be compacted. o CAAWS deploying geotextile (GT) portion of cushion layer and completing GM connections to outlet and inlet structures; later in day CAAWS deploys remaining GM on north side slopes ▪ Lower subgrade GT deployed on ramp following anchor trench excavation ▪ Observed edge of GM exposed at top of slope near inlet structure, advised Thong Ingels (CAAWS foreman) that edge of GM needs to be tucked into anchor trench ▪ AM and PM trial welds meet project specifications ▪ Several production seam air channel tests failed in NW corner of pond -- much of the seams in this area extrusion welded. Seaming equipment adjusted accordingly. o Safety inspection conducted by Tim (Brieser safety officer) – CAAWS reprimanded for housekeeping o Discussed status with Brian Delcorio 17:15 – Leave site – GM deployed to NE corner of pond (ramp).
Scope Changes:	None

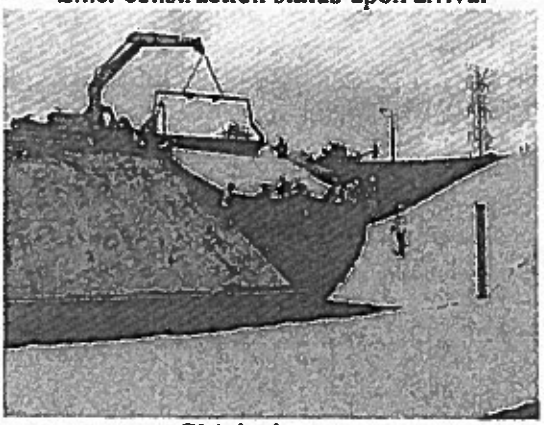
(Problems, Additional Hours, etc...)	
Site Conditions: (Needed Well repairs, borehole seals, system condition, etc...)	None
Soil/Water Stored On-site: (Prior & newly generated) (containers – conditions, labeling, location)	None
Summary of Forms Attached:	Photos

Signature: Eric J. Tlachac Date: October 3, 2008

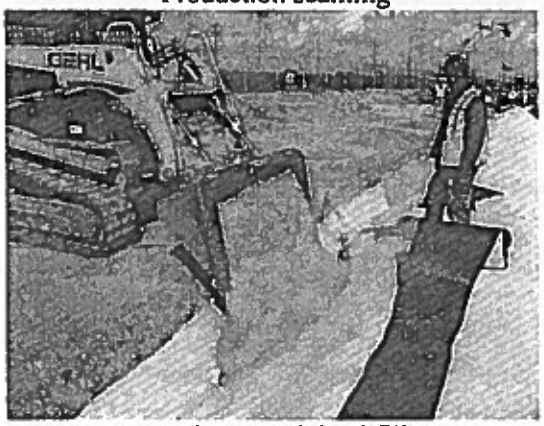


Liner construction status upon arrival

Production seaming



GM deployment



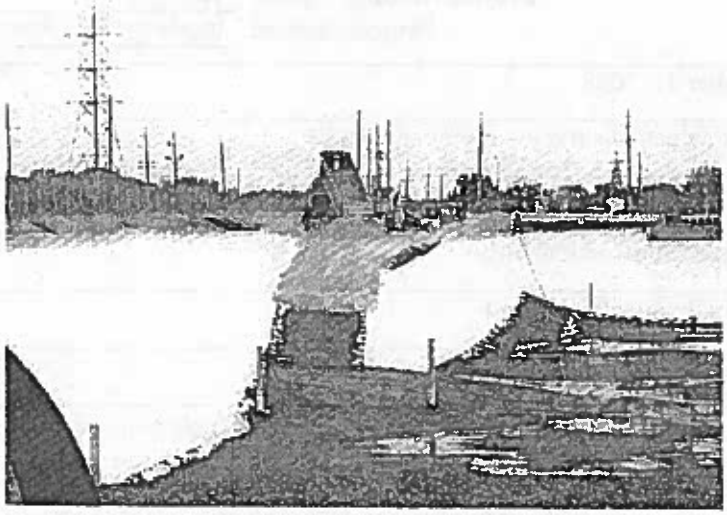
Anchor trench backfill

FIELD NOTE SUMMARY

Project Number / Task: 1862/5.2
Project Names: Impoundment #1 liner replacement

Date:	October 6, 2008
Work Scope:	Limestone screenings placement – Impoundment #1
NRT Staff:	Rick Guenther
Contractors:	Brieser Construction-Bill
Weather:	Partly Cloudy, high 60's (°F)
Equipment:	Digital camera
Field Comments:	• I arrive on site around 1130, checked in at gate house. • I went over to pond #1 and verified that liner was complete and geotextile was installed. • Brieser was placing screens on the ramp using the rubber tracked skidster. • I instructed Bill that the warning layer needed to be placed on the ramp before any trucks drive on the ramp. • We also went over things that needed to be completed 1) place riprap at base of apron 2) cover up liner at inlet and discharge corners 3) place screenings 4 feet up side slope 4) compact north anchor trench 5) paint marker poles • Called Brian DelCorio. (MWG) before leaving to let him know what was left to be completed. • Offsite around 1400.
Scope Changes:	• none
Site Conditions: (Needed Well repairs,	• In good condition.
Soil/Water Stored On-site:	• None
Summary of Forms Attached:	• None

Signature: _____ Date: 10·6·8
Ricky J. Guenther Jr.



Placement of limestone screening on ramp

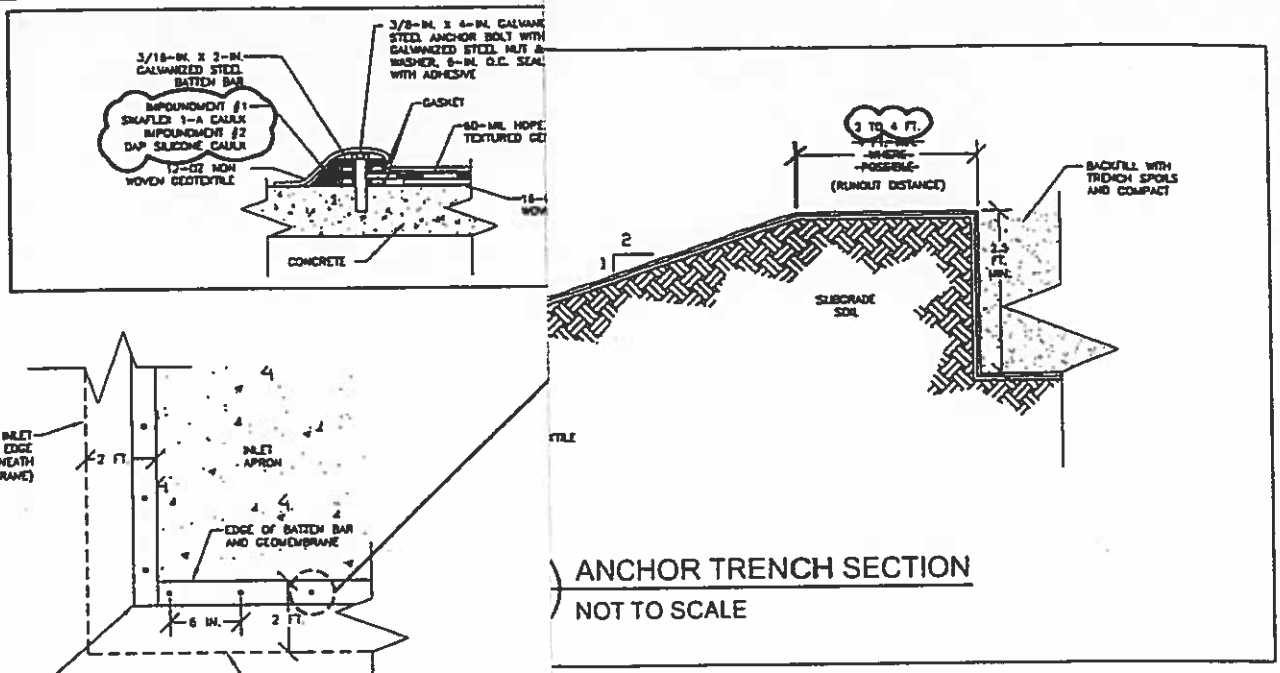
Top of southwest corner along anchor trench

FIELD NOTE SUMMARY

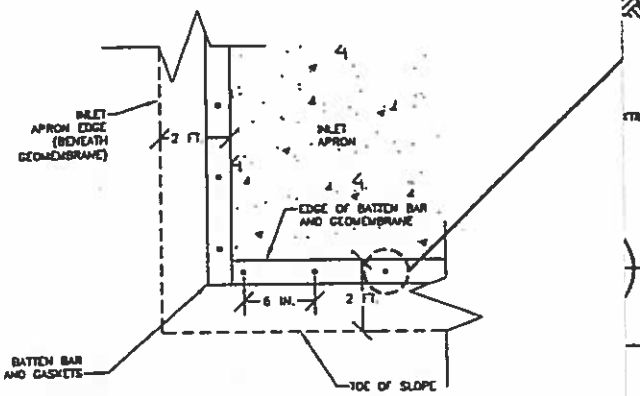
Project Number / Task: 1862/5.2
Project Names: Impoundment #1 liner replacement

Date:	October 21, 2008
Work Scope:	Leak detection survey – Impoundment #1
NRT Staff:	Rick Guenther
Contractors:	Brieser Construction-Billy
Weather:	Partly Sunny 60s degree F
Equipment:	none
Field Comments:	• I arrive on site around 0845, checked in at gate house. • I went over to pond #1 to observe the leak detection survey already in progress. • The survey was completed with one possible leak detection. Brieser removed the limestone screenings and visually inspected the linear, a hole was not detected. • The area was buried again and survyed again with and without an artificaial leak. The artificial leak was more visible with the software and it was ruled that there was no leak at this location. One possible cause for the intial leak signal is that the area below the screenings was very dry. • Brieser began final cleanup of the site. • Left site at 1115
Scope Changes: (Problems, Additional Hours, etc...)	• None
Site Conditions: (Needed Well repairs, borehole seals, system condition, etc...)	• Looks good
Soil/Water Stored On-site:	• None
Summary of Forms Attached:	• None

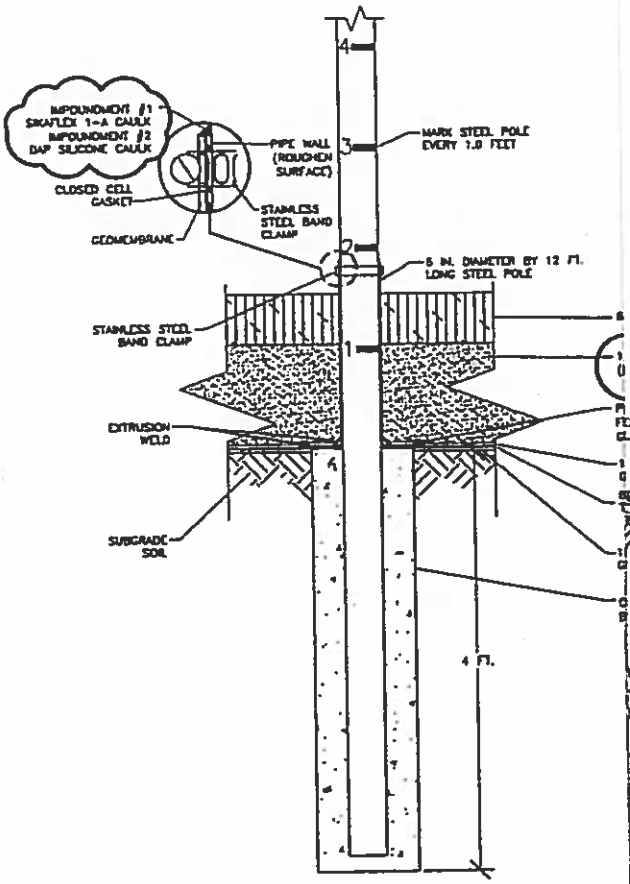
Signature: _____ Date: 10·21·8
Rick Guenther



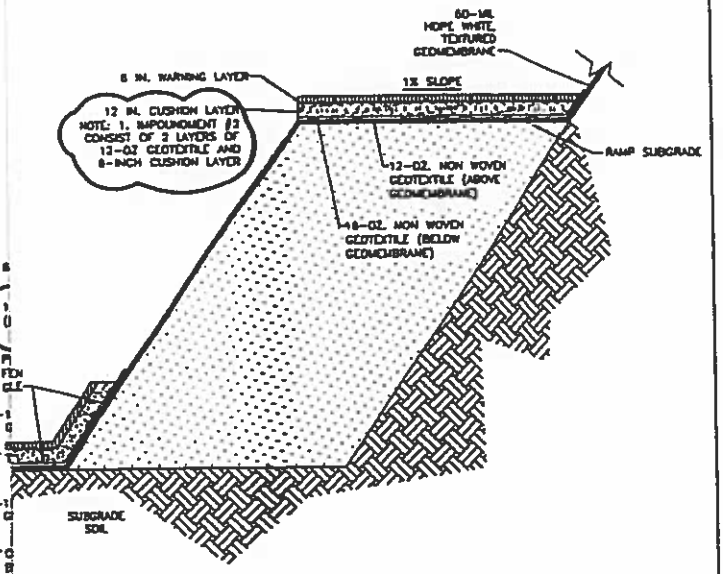
ANCHOR TRENCH SECTION
NOT TO SCALE



2 / C030 INLET APRON DETAIL PLAN
NOT TO SCALE



1 / C020 MARKER POST DETAIL
NOT TO SCALE



AMP SECTION
T TO SCALE

NO. .2	DETAILS AND SECTIONS	
BY: 9/08	ASH IMPOUNDMENT #1 AND #2 LINER REPLACEMEN	
BY: 9/08	MIDWEST GENERATION, LLC JOLIET STATION NO. 29 JOLIET, ILLINOIS	
BY: 9/08	DRAWING NO: D1862C031-00 ~~MWG13-15-49507~~ REFERENCE:1862/RECORD DWGS/	SHEET NO C031