WEEKLY SUMMARY REPORT

Week Ending: 08/29/2024 (Thursday) Report No.: W-03-082924 Page 1 of 3

PROJECT INFORMATION

PROJECT NAME:	BYPASS BASIN RETROFIT CQA		
LOCATION:	Powerton Generating Station	CEC PROJECT NO:	343-014.0200
PLANS AND SPECS:	S&L Bypass Basin Retrofit Project	WEATHER:	0.7" of rain
ISSUED DATE:	07/12/24	TEMP. RANGE (°F)	71-97

PERSONNEL

FIELD REP(S):	Derek Dorsz	CEC PROJ. MANAGER(S):	Dean Jones
CLIENT:	Midwest Generation	CLIENT CONTACT(S):	Joe Kotas
CONTRACTOR:	Bluff City Construction (BCC)	SUPERVISOR:	Larry Hunt
CONTRACTOR:	Clean Air and Water Systems (CAAWS)	SUPERVISOR:	Andy Khamarlorm

SAFETY MEETINGS AND PARTICIPATION

Participation in Contractor's Tailgate Safety Meeting? \Box Yes \boxtimes No Vehicle Check Performed? \boxtimes Yes or \Box No Plan for the Day Required (WSM 200.25): \Box Yes (CLICK LINK BELOW) \boxtimes No

WORK PERFORMED SINCE CEC'S LAST VISIT⁽¹⁾

Work performed since CEC representative's last site visit? ⁽¹⁾ \Box Yes \boxtimes No Date CEC representative was last onsite: Saturday, August 24, 2024

(1) Critical work or work requiring continuous observation that has been completed without CEC representation being present onsite. CEC was not made aware that this work was being completed.

SUMMARY OF WORK OBSERVED, LOCATION, AND CONTRACTOR PERFORMING WORK

- CAAWS completed geomembrane detail work and encompassed the site in the liner, including attaching liner to concrete structures.
- CAAWS silicon sealed the liner edge along inlet structure and existing marker posts.
- CAAWS began and completed deployment of drainage geocomposite liner across the basin.
- BCC completed excavation of anchor trench along the perimeter.
- BCC completed backfill of anchor trench.
- BCC installed upper sane cushion layer along the west and northwest corner of basin.
- BCC began installation of 12" sand filer layer at the ramp and southern half of basin.

UNEXPECTED, UNUSUAL, OR NONCONFORMING OBSERVATIONS (NEW / RESOLVED)

Unexpected, unusual, or nonconforming work observed? \Box Yes \boxtimes No

• N/A

SUMMARY OF MEETINGS / DISCUSSIONS / PHONE CONVERSATIONS

• Geotextile is to be installed beneath the road surfacing aggregate within areas to have regular traffic.

ATTACHMENTS

- Field Density Test Report and Sand Cone Test Reports.
- Flowable Fill test results.

WEEKLY SUMMARY REPORT

Week Ending: 08/29/2024 (Thursday)

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DESCRIPTION OF SAMPLES TAKEN OR MATERIALS DELIVERED TO LAB

- PBBR-Sand-1 collected and taken to lab.
- PBBR-AT-1 collected and taken to lab.

PHOTOGRAPHS

Date & Time: Tue, Aug 27, 2024 at 08,12.00 CDT

Position: +040.543115" / -089.676549" (=11.6ft)



Photo 1: shows deployment of drainage geocomposite and completion of geomembrane installation.

Photo 2: shows completion of drainage geocomposite installation.



* No representations or warranties are made regarding the accuracy of the information generated by the Theodolite application, which is stamped on the photo, or the suitability of that information for any; legal, engineering, surveying, or other use or purpose.

WEEKLY SUMMARY REPORT

Week Ending: 08/29/2024 (Thursday)

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Civil & Environmental Consultants, Inc.

Photo 3: shows compaction of anchor trench backfill.



Photo 4: shows placement of sand filter layer.

APPROVED BY

 FIELD REP:
 Derek Dorsz
 DATE:
 08/29/2024
 CEC MANAGER:
 Dean Jones
 DATE:
 09/04/2024

 This document is draft until reviewed and approved by a Project Manager

NOTICE: Our firm's professionals are represented onsite solely to observe operations of the contractor identified to form opinions about the adequacy of those operations and to report those opinions to our client. The presence and activities of our field representative do not relieve the contractor from its obligation to meet contractual requirements. The contractor retains sole responsibility for site safety and the methods operations and sequences of construction.

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DAILY FIELD REPORT

Date: 08/27/2024 (Tuesday) Report No.: 14-082724 Page 1 of 2



±1% PASSING

±2% PASSING

NUCLEAR COMPACTION TEST DATA (ASTM D6938)

PROJECT NAME:	Powerton Bypass Basin Retrofit	PROJECT NUMBER:	343-014
CEC TECHNICIAN:	Derek Dorsz	GAUGE NUMBER:	27636
CONTRACTOR:	Bluff City Construction		

STANDARD COUNTS:

 DENSITY
 954

 MOISTURE
 613

 %
 DEVIATION
 0.73

 %
 DEVIATION
 0.33

TEST NUMBER	17	18	19	20	21	22	
LOCATION	N: 1411829.1 E: 2432881.7	N: 1411992.6 E: 2432965.1	N: 412100.8 E: 2432858.7	N: 1411829.1 E: 2432881.7	N: 1411992.6 E: 2432965.1	N: 1412100.8 E: 2432858.7	
ELEVATION OR LIFT NUMBER	Lift 1 Z: 465.3	Lift 1 Z: 465.6	Lift 1 Z: 466.1	Lift 2 Z: 465.8	Lift 2 Z: 466.1	Lift 2 Z: 466.6	
LIFT THICKNESS (in.)	6	6	6	6	6	6	
NUMBER OF PASSES	4	4	4	4	4	4	
PROBE DEPTH (in.)	0	0	0	0	0	0	
FIELD WET DENSITY (pcf)	131.0	131.6	131.5	130.2	131.5	132.0	
FIELD DRY DENSITY (pcf)	113.0	113.5	114.2	114.3	114.6	114.7	
COMPACTION (%)	95.1	95.5	96.1	96.2	96.5	96.5	
COMPACTION PASS/FAIL	PASS	PASS	PASS	PASS	PASS	PASS	
FIELD MOISTURE (%)	13.7	13.8	13.2	12.2	12.9	13.1	
MOISTURE PASS/FAIL	PASS	PASS	PASS	PASS	PASS	PASS	
LAB PROCTOR MDD	118.8	118.8	118.8	118.8	118.8	118.8	
PROCTOR TYPE (Mod./Stan.)	Modified	Modified	Modified	Modified	Modified	Modified	
SPECIFIED MIN. COMPACTION (%)	95.0	95.0	95.0	95.0	95.0	95.0	
LABORATORY OMC (%)	13.0	13.0	13.0	13.0	13.0	13.0	
SPECIFIED MOISTURE RANGE	10.0 - 16.0	10.0 - 16.0	10.0 - 16.0	10.0 - 16.0	10.0 - 16.0	10.0 - 16.0	
RETEST NUMBER	N/A	N/A	N/A	N/A	N/A	N/A	
REMARKS	•		•				

DAILY FIELD REPORT

Date: 08/27/2024 (Tuesday) Report No.: 14-082724 Page 2 of 2



Civil & Environmental Consultants, Inc.

TEST NUMBER	23	24	25	
LOCATION	N: 1411829.1 E: 2432881.7	N: 1411992.6 E: 2432965.1	N: 1412100.8 E: 2432858.7	
ELEVATION OR LIFT NUMBER	Lift 3 Z: 466.3	Lift 3 Z: 466.6	Lift 3 Z: 467.1	
LIFT THICKNESS (in.)	6	6	6	
NUMBER OF PASSES	4	4	4	
PROBE DEPTH (in.)	0	0	0	
FIELD WET DENSITY (pcf)	133.2	132.9	133.2	
FIELD DRY DENSITY (pcf)	115.2	114.8	115.2	
COMPACTION (%)	97.0	96.6	97.0	
COMPACTION PASS/FAIL	PASS	PASS	PASS	
FIELD MOISTURE (%)	13.5	13.6	13.5	
MOISTURE PASS/FAIL	PASS	PASS	PASS	
LAB PROCTOR MDD	118.8	118.8	118.8	
PROCTOR TYPE (Mod./Stan.)	Modified	Modified	Modified	
SPECIFIED MIN. COMPACTION (%)	95.0	95.0	95.0	
LABORATORY OMC (%)	13.0	13.0	13.0	
SPECIFIED MOISTURE RANGE	10.0 - 16.0	10.0 - 16.0	10.0 - 16.0	
RETEST NUMBER	N/A	N/A	N/A	
REMARKS				· · · · · ·

NOTES:

1. MDD denotes Maximum Dry Density.

2. OMC denotes Optimum Moisture Content.

3. Elevations and lift thicknesses are approximate.

4. N denote Northing, E denotes Easting, and Z denotes elevation. Coordinates given by Bluff City Construction.

Powerton Bypass Basin Retrofit Sand Cone Test



Sand Cone Analysis (Cannot be performed in soils with coarse aggregates) Date: 8/27/24 Test No: 25

This method is using balance scales measuring mass to determine unit weight. If you are using digital scales or scales with springs for the force-measuring mechanism, use the "Pounds-Force" Tab. Obtain Sample for Wet Density
- Excavate hole with large metal spoon or garden trowel that is 3 to 4" in diameter and 3 to 4 inches deep in order to obtain a sample of at least 500 grams (1.1 lbs).

- Fill the cone on the apparatus with the sand from the sandcone to detemine the weight of the sand in the cone. -Weight of sand from full cone (W1) in Pounds (grams) = 1573.000 grams 6597.000 grams -Weight of cone/jar aperatus with sand = (W) in grams 1.530 g/cm^3 -Enter pre-determined density of sand in jar = -Place base plate over excavated hole with hole in base plate in ceter of excavated hole. 1702.000 grams -Weigh moist/wet soil from excavation Ws = - Place cone (attached to sand jar) over hole and open valve. - Turn Valve off and remove cone and base plate. If excavation is not full, spread sand evenly in excavation and repeat last step. - Determine Volume of Hole Excavated. 3820.000 grams + weight of sand in the full cone (W1) and subtract from weight of full jar (W): 1204.000 grams - Weigh jar and remaining sand (W2) W - (W1+W2) 786.928 cm^3 Volume of Excavation = 2162.841 kg/m^3 Wet Density of Excavated Soil Ww = Dry Density of Soil - Place moist soil obtained from the excavation into pan for drying after weighing on the scale - Place material in iron skillet over active burner and break apart the core so that it can be dried over the heat. - Carefully remove dried material from skillet making sure to transfer all material into a tin or other aparatus to be weighed. 1390.000 grams - Obtain weight in grams of dry soil WD = **18.331** % - Moisture Content of sample = Soil Dry Density = 1827.783 kg/m^3

***Soil Dry Unit Wt. = 114.05 lb/ft^3 *** measured in force (lb/ft^3)

DAILY FIELD REPORT

Date: 08/28/2024 (Wednesday) Report No.: 15-082824 Page 1 of 1



NUCLEAR COMPACTION TEST DATA (ASTM D6938)

PROJECT NAME: Powerton Bypa		bass Basin Retrofit		ROJECT NUMBER:	343-014		
CEC TECHNICIAN:	Derek Dorsz		G	AUGE NUMBER:	27636		
CONTRACTOR:	Bluff City Co	onstruction					
STANDARD C	DENS	URE <u>954</u> 613		0.73 0.33	±1% PASSING ±2% PASSING		
TEST NUMB	ER	26	27	28			
LOCATION	Ň	N: 1411942.7 E: 2432791.2	N: 1411942.7 E: 2432791.2	N: 1411942.7 E: 2432791.2			
ELEVATION OR LIF	Г NUMBER	Lift 1 Z: 466.2	Lift 2 Z: 466.7	Lift 3 Z: 467.2			
LIFT THICKNES	55 (in.)	6	6	6			
NUMBER OF PASSES		4	4	4			
PROBE DEPTH (in.)		0	0	0			
FIELD WET DENSITY (pcf)		135.6	135.7	135.9			
FIELD DRY DENS	ITY (pcf)	115.6	114.9	114.5			
COMPACTION	N (%)	97.3	96.7	96.4			
COMPACTION PA	SS/FAIL	PASS	PASS	PASS			
FIELD MOISTU	RE (%)	14.7	15.3	15.7			
MOISTURE PASS	S/FAIL	PASS	PASS	PASS			
LAB PROCTOR	MDD	118.8	118.8	118.8			
PROCTOR TYPE (M	Iod./Stan.)	Modified	Modified	Modified			
SPECIFIED MIN. COM	PACTION (%)	95.0	95.0	95.0			
LABORATORY OMC (%)		13.0	13.0	13.0			
SPECIFIED MOISTURE RANGE		10.0 - 16.0	10.0 - 16.0	10.0 - 16.0			
RETEST NUM	BER	N/A	N/A	N/A			
REMARKS							
NOTES:							

MDD denotes Maximum Dry Density.
 OMC denotes Optimum Moisture Content.

Elevations and lift thicknesses are approximate.
 N denote Northing, E denotes Easting, and Z denotes elevation. Coordinates given by Bluff City Construction.

Powerton Bypass Basin Retrofit Sand Cone Test



Sand Cone Analysis (Cannot be performed in soils with coarse aggregates) Date: 8/28/24 Test No: 28

This method is using balance scales measuring mass to determine unit weight. If you are using digital scales or scales with springs for the force-measuring mechanism, use the "Pounds-Force" Tab. **Obtain Sample for Wet Density** - Excavate hole with large metal spoon or garden trowel that is 3 to 4" in diameter and 3 to 4 inches deep in order to obtain a sample of at least 500 grams (1.1 lbs).

- Fill the cone on the apparatus with the sand from the sandcone to de	•	sand in the cone.		
-Weight of sand from full cone (W1) in Pounds (grams) =	1573.000 grams			
-Weight of cone/jar aperatus with sand = (W) in grams	6384.000 grams			
-Enter pre-determined density of sand in jar =	1.530 g/cm^3			
-Place base plate over excavated hole with hole in base plate in ceter of	f excavated hole			
-Weigh moist/wet soil from excavation Ws =	1430.000 grams			
- Place cone (attached to sand jar) over hole and open valve.				
- Turn Valve off and remove cone and base plate. If excavation is not f	ull spread sand evenly in	excavation and reneat last sten		
- Turn valve on and remove cone and base place. If excavation is not i	un, spread sand eveniy n			
- Determine Volume of Hole Excavated.				
- Weigh jar and remaining sand (W 2)	3795.000 grams	+ weight of sand in the full cone (W1) and subtract from weight of full jar (W):	W - (W1+W2)	1016.000 grams
Volume of Excavation =	664.052 cm^3			
Wet Density of Excavated Soil Ww =	2153.445 kg/m^3			
Dry Density of Soil				
 Place moist soil obtained from the excavation into pan for drying after 	r weighing on the scale			
 Place material in iron skillet over active burner and break apart the co 		over the heat		
- Carefully remove dried material from skillet making sure to transfer a				
		inel aparatus to be weighed.		
- Obtain weight in grams of dry soil WD =	1198.000 grams			
- Moisture Content of sample =	16.224 %			
Soil Dry Density = 1852.844 kg/m^3				

***Soil Dry Unit Wt. = 115.62 lb/ft^3

*** measured in force (lb/ft^3)



Report On: Daily Field Activity - Concrete

Lab No: 20142

Project No	: 2024-1313-04T Cust No:1313		Page 1 of 1
Client:	Civil & Environmental Consultants, Inc.	Report Date:	08/28/2024
Project:	13082 E Manito Rd., Pekin, IL	Test Date:	08/22/2024
Report No	: 001	Tested By:	Charles Tomas
Location:	Floawble Fill	-	

NST representative was on site as scheduled and observed the flowable concrete fill placement. A total of 4 concrete loads were supplied by Roanoke, Pekin Plant . A total of 36 cubic yards of flowable concrete mix RSMFF03 were placed.

NST representative performed field concrete slump, air content and temperature tests on load 1. Slump, air content and temperature test results were consistent with the project specifications. A total of 1 set of 9 cylinders were cast as per project specifications from load 1 for laboratory curing and compressive strength testing. Test results are included on the Air Content and Slump report.

Remarks: No pictures taken.

Orig: Civil & Environmental Consultants, Inc. Attn: Mr. Matthew D. Breitenbach (1-ec copy) 1-cc Laboratory





Report On: Air Content & Slump

Lab No: 20142-1

Client: Project: Report No Location: Material:	Civil & Enviro 13082 E Man : 002 Flowable Fill PCC		,			Report Da Test Date Sampled	:	08/28/202 08/22/202 Charles T	24	
Nbr 1 T	npled Tru At N ⁻ ruck ment Location:	o Yards 90	s No 2064652	Water Added No	Mix Code RSMFF03	Time Sampled 10:40 am	Amb Temp (°F) 72	Mix Temp (°F) 70	Slump (In.) 9.00	Air % 5.50
	ed: 08/22/2024 e: Roanoke Co	ncrete								

Plant: Pekin

Remarks:

Test Method (As Applicable): ASTM C143, C231, C172, C1064, C31

Orig: Civil & Environmental Consultants, Inc. Attn: Mr. Matthew D. Breitenbach (1-ec copy) 1-cc Laboratory





Report On: Concrete Compression

Lab No: 20142-2

Project No	cust No: 1313		Page 1 of 1
Client:	Civil & Environmental Consultants, Inc.	Report Date:	09/03/2024
Project:	13082 E Manito Rd., Pekin, IL	Test Date:	08/22/2024
Report No	: 003	Sampled By:	Charles Tomas
Location:	Flowable Fill		

Cylinder Marked	Age Te (date :		Diameter (in)	Area (in²)	Max Load (Ibs)	Break Type	Cure Loc	Compressive Strength (PSI)	Average Strength (PSI)	Tested By
A	08/29/2	24:7	4.00	12.566	450	Туре 3	Lab	40		U. Ahmad
В	08/29/2	24 : 7	4.00	12.566	470	Туре 3	Lab	40		U. Ahmad
С	08/29/2	24 : 7	4.00	12.566	520	Туре 3	Lab	40	40	U. Ahmad
D	09/19/2	4 : 28	4.00	12.566			Lab			
E	09/19/2	4 : 28	4.00	12.566			Lab			
F	09/19/2	4 : 28	4.00	12.566			Lab			
G	HOI	D								
Comr	nents: H	OLD (see r	emarks)							
Н	HOI									
Comr	nents: H	OLD (see r	emarks)							
I	HOI									
Comr	nents: H	OLD (see r	emarks)							
\boxtimes	四ノ				\bigcap					
Type 1	Type 2	Туре 3	Type 4	Type 5	Type 6					
	Me	easuremei	nt Spe	cification	Spee	cification:			Weathe	r:
Temp.: Am	bient:	72ºF				Source: Roa	anoke	Concrete Proc	Transported B	y:
-	Mix:	70ºF				Plant: Pel	in	F	Placement Date	e: 08/22/2024
SI	ump:	9.0				Truck No: NA			Time Batchee	d: 9:36 am
Air Co	-	5.5			ſ	Mix Code:			Time Sample	d: 10:40 am
Unit W	eight:	61.8 lbs/ft ³			٦	Ficket No: 206	4652		•	
					Sa	mpled At: Tru	~k		Curing Method	I. Standard

Quantity Represented: 9 cu. yds. at 9 cu. yds. placed of a 36 cu. yd. total placement Placement Location: Sample Location: Flowable Fill Remarks: CLSM

Test Method (As Applicable): Unless noted, concrete was sampled and tested in accordance with ASTM C172, C143, C231 or C173, C1054 and C138. Compressive strength tests per ASTM C39.

Orig: Civil & Environmental Consultants, Inc. Attn: Mr. Matthew D. Breitenbach (1-ec copy) 1-cc Laboratory

Respectfully Submit T.AC Umar I. Ahmad. Pl