

January 6, 2026

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
2520 West Iles Avenue
Springfield, Illinois 62704

Illinois Environmental Protection Agency
Collinsville FOS
1101 Eastport Plaza Dr, Suite 100
Collinsville, Illinois 62234

Shell Oil Products US Steam Enhanced Extraction Pretreatment System - Treated Water Analytical Data
Village of Roxana Wastewater Treatment Plant
Water Pollution Control Permit No. 2023-EE-68012
December 2025 Analytical

To Whom It May Concern:

AECOM Technical Services, Inc. (AECOM), on behalf of Shell Oil Products US (Shell), is submitting this letter as required by Water Pollution Control Permit No. 2023-EE-68012, Special Condition 8(B). This Permit is for the pre-treatment and discharge of the steam enhanced extraction (SEE) wastewater to the Village of Roxana Wastewater Treatment Plant (WWTP). Special Condition 8(B) of the Permit requires monitoring of the system discharges and submittal of analytical results to the Illinois Environmental Protection Agency (IEPA). Wastewater treated through the pretreatment system is sampled on a weekly basis in accordance with Condition 13 of the August 22, 2022, letter from Illinois EPA, Permit Section, Division of Land Pollution Control (Log N. B-43R-CA-107).

The SEE system was winterized and sat idle during the winter months. System startup activities began in March 2025. During system operation activities in December 2025, three (3) samples of treated wastewater discharge was analyzed. The table below summarizes the samples and corresponding results.

Sample ID	Sample Date	Benzene (mg/L)
PWYSEE-WaterEff-120225	12/2/2025	Not detected
PWYSEE-WaterEff-120425	12/4/2025	Not detected
PWYSEE-WaterEff-120825	12/8/2025	Not detected

"J" qualifier indicates that benzene detection was estimated between the reporting limit and method detection limit

Please contact Ms. Wendy Pennington (wendy.pennington@aecom.com; 314-452-8929) with any questions.

Sincerely,



Wendy Pennington, P.E.
Compliance Manager
AECOM



Samuel Fisher, CHMM
Task Manager
AECOM

encl: Applicable results pages from Teklab Work Orders 25120180, 25120443, 25120623

cc: Buddy Bealer (Shell)
Scott Schmidt (Village of Roxana)
Jason Woody (Village of Roxana)
Project File

Client: AECOM Technical Services Inc.

Work Order: 25120180

Client Project: PWY SEE 2025 Water & Waste / 60771235-7.2.2

Report Date: 04-Dec-25

Lab ID: 25120180-005

Client Sample ID: PWYSEE-WaterEff-120225

Matrix: AQUEOUS

Collection Date: 12/02/2025 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		ND	µg/L	1	12/03/2025 07:16	248773
Surr: 1,2-Dichloroethane-d4	*	0	80-120		103.6	%REC	1	12/03/2025 07:16	248773
Surr: 4-Bromofluorobenzene	*	0	80-120		98.1	%REC	1	12/03/2025 07:16	248773
Surr: Dibromofluoromethane	*	0	80-120		101.7	%REC	1	12/03/2025 07:16	248773
Surr: Toluene-d8	*	0	80-120		97.7	%REC	1	12/03/2025 07:16	248773

Client: AECOM Technical Services Inc.

Work Order: 25120443

Client Project: PWY SEE 2025 Water & Waste / 60771235-7.2.2

Report Date: 05-Dec-25

Lab ID: 25120443-001

Client Sample ID: PWYSEE-WaterEff-120425

Matrix: AQUEOUS

Collection Date: 12/04/2025 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		ND	µg/L	1	12/05/2025 00:02	248906
Surr: 1,2-Dichloroethane-d4	*	0	80-120		100.7	%REC	1	12/05/2025 00:02	248906
Surr: 4-Bromofluorobenzene	*	0	80-120		103.4	%REC	1	12/05/2025 00:02	248906
Surr: Dibromofluoromethane	*	0	80-120		98.2	%REC	1	12/05/2025 00:02	248906
Surr: Toluene-d8	*	0	80-120		100.1	%REC	1	12/05/2025 00:02	248906

Client: AECOM Technical Services Inc.

Work Order: 25120623

Client Project: PWY SEE 2025 Water & Waste / 60771235-7.2.2

Report Date: 09-Dec-25

Lab ID: 25120623-001

Client Sample ID: PWYSEE-WaterEff-120825

Matrix: AQUEOUS

Collection Date: 12/08/2025 09:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		ND	µg/L	1	12/09/2025 14:09	249040
Surr: 1,2-Dichloroethane-d4	*	0	80-120		102.6	%REC	1	12/09/2025 14:09	249040
Surr: 4-Bromofluorobenzene	*	0	80-120		98.8	%REC	1	12/09/2025 14:09	249040
Surr: Dibromofluoromethane	*	0	80-120		98.6	%REC	1	12/09/2025 14:09	249040
Surr: Toluene-d8	*	0	80-120		99.8	%REC	1	12/09/2025 14:09	249040