

Application Type Renewal  
Facility Type Storm Water  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL INDUSTRIAL WASTE (IW)  
AND IW STORMWATER**

Application No. PA0266850  
APS ID 984440  
Authorization ID 1497893

**Applicant and Facility Information**

Applicant Name	<u>Susquehanna Area Regional Airport Authority (SARAA)</u>	Facility Name	<u>Capital City Airport (CXY)</u>
Applicant Address	<u>1 Terminal Drive Suite 300</u> <u>Middletown, PA 17057</u>	Facility Address	<u>210 Airport Road</u> <u>New Cumberland, PA 17070</u>
Applicant Contact	<u>Louis Pirozzi</u>	Facility Contact	<u>Louis Pirozzi</u>
Applicant Phone	<u>(717) 948-3900</u>	Facility Phone	<u>(717) 948-3900</u>
Client ID	<u>206361</u>	Site ID	<u>598613</u>
SIC Code	<u>4581</u>	Municipality	<u>Fairview Township</u>
SIC Description	<u>Trans. &amp; Utilities - Airports, Flying Fields, And Services</u>	County	<u>York</u>
Date Application Received	<u>August 30, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>February 3, 2025</u>	If No, Reason	
Purpose of Application	<u>NPDES discharge of stormwater associated with industrial activity.</u>		

**Summary of Review**

This is a renewal application for a NPDES individual permit for discharges of stormwater and discharges associated with industrial activity located in Fairview Township, York County. See Figures 1A through 1D for a Site Layout Plan.

CXY is a general aviation airport owned and operated by SARAA. The operations and tenants on the 287-acre CXY property include aircraft fueling, aircraft maintenance, fixed wing and rotary aircraft operations, office buildings, private and corporate hangars used for aircraft storage, maintenance, and operations facilities. Stormwater originating from parking lots, roof drains, and storage areas on the airport sheet flow to multiple stormwater inlets that discharge stormwater into the Susquehanna River, Yellow Breeches Creek, or Marsh Run through five (5) outfalls located along perimeter of the airport.

SARAA was found to be in violation for two previous fuel spills at CXY into the Yellow Breeches Creek at Outfall 002 in December 2015 and June 2016. PA American Water Company (PAWC) owns and operates a water intake that serves 100,000 people and is located within 10 yards downstream of Outfall 002's discharge to the Yellow Breeches Creek. The December 2015 spill resulted in the shutdown of PAWC's intake. As a result, SARAA submitted an application for a NPDES permit for discharges of stormwater associated with industrial activity. A follow-up inspection was conducted by DEP on 1/20/16 and no violations were noted.

The facility does not qualify for a NPDES PAG-03 General Permit for discharges of stormwater associated with industrial activity (PAG-03) since discharges from the facility pose a hazard to human health. Per Section 92a.54 (a)(5), the Department may issue a general permit if the discharges "do not discharge toxic or hazardous pollutants as defined in sections 307 and 311 of the Federal Act (33 U.S.C.A. § § 1317 and 1321) or any other substance that—because of its quantity; concentration; or physical, chemical or infectious characteristics—may cause or contribute to an increase in mortality or morbidity in either an individual or the total population, or pose a substantial present or future hazard to human health or the environment when discharged into surface waters." Given that the discharge is directly upstream of a drinking

Approve	Deny	Signatures	Date
X		Jacob S. Rakowsky Jacob S. Rakowsky, E.I.T. / Project Manager	2/25/2025
X		Scott M. Arwood Scott M. Arwood, P.E. / Environmental Engineer Manager	2/25/2025

### Summary of Review

water intake, and there has already been documented releases of fuel at the facility, the potential for drinking water contamination exists.

The facility's primary SIC code is 4581 (Airports, Flying Fields and Airport Terminal Services). If the facility qualified for a PAG-03, they would fall under Appendix G based on their SIC Code.

The facility has five outfalls: Outfalls 001, 002, 003, 004, and 005. Outfall 001 discharges to Marsh Run (WWF, MF), Outfall 002 discharges to Yellow Breeches Creek (CWF, MF), and Outfalls 003, 004, and 005 discharge to the Susquehanna River (WWF, MF). Outfall 003 is identified as a no exposure outfall in the renewal application.

A renewal application was received on 8/30/2024 via PUP 255756. A deficiency notice was issued on 9/20/2024. The deficiencies were resolved on 1/27/2025. Revisions were received via email.

Per the application, the PPC Plan was last updated in August 2024.

EPA waiver is in effect.

Part C permit conditions require semi-annual site inspections as well as implementation of BMPs and implementation of the facility PPC Plan. Given the BMPs in place, the discharge is not expected to have any measurable effect on the water quality of the receiving stream.

### Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	N/A (stormwater)
Latitude	40° 12' 43"	Longitude	-76° 51' 14"
Wastewater Description: Stormwater associated with industrial activity.			
Receiving Waters	Marsh Run (WWF, MF)	Stream Code	63054
NHD Com ID	56405139	RMI	0.5
Drainage Area	0.49 sq. mi.	Yield (cfs/mi <sup>2</sup> )	
Q <sub>7-10</sub> Flow (cfs)	0.0199	Q <sub>7-10</sub> Basis	StreamStats
Watershed No.	7-E	Chapter 93 Class.	WWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	CAUSE UNKNOWN, SILTATION		
Source(s) of Impairment	SOURCE UNKNOWN, URBAN RUNOFF/STORM SEWERS		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	PA American Company West		
PWS Waters	Yellow Breeches Creek	Municipality	Fairview Twp, York County
PWS RMI	1.0	Distance from Outfall (mi)	0.95

Drainage Area: 1,116,792 sq ft

% Impervious: 30

Description of Materials / Activities in Drainage Area Exposed to Precipitation:  
Southside of airport – runway, aircraft fueling area, aircraft storage and maintenance areas.

Description of Treatment or BMPs in Drainage Area to Control Pollutants in Stormwater:  
Stormwater is conveyed through an oil/water separator prior to discharge.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	002	Design Flow (MGD)	N/A (stormwater)
Latitude	40° 13' 12"	Longitude	-76° 51' 34"
Wastewater Description: Stormwater associated with industrial activity.			
Receiving Waters	Yellow Breeches Creek (CWF, MF)	Stream Code	10121
NHD Com ID	56404467	RMI	1.0
Drainage Area	218 sq. mi.	Yield (cfs/mi <sup>2</sup> )	
Q <sub>7-10</sub> Flow (cfs)	59	Q <sub>7-10</sub> Basis	StreamStats
Watershed No.	7-E	Chapter 93 Class.	CWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	PATHOGENS		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	PA American Company West		
PWS Waters	Yellow Breeches Creek	Municipality	Fairview Twp, York County
PWS RMI	1.0	Distance from Outfall (mi)	0.01

Drainage Area: 1,928,402 sq ft

% Impervious: 35

Description of Materials / Activities in Drainage Area Exposed to Precipitation:

Northwest side of airport – runway, aircraft fueling area, aircraft storage and maintenance areas.

Description of Treatment or BMPs in Drainage Area to Control Pollutants in Stormwater:

Stormwater is conveyed through an oil/water separator prior to discharge.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	003	Design Flow (MGD)	N/A (stormwater)
Latitude	40° 13' 18"	Longitude	-76° 51' 3"
Wastewater Description: Stormwater associated with industrial activity.			
Receiving Waters	Susquehanna River (WWF, MF)	Stream Code	6685
NHD Com ID	56404165	RMI	52.61
Drainage Area	24,300 sq. mi.	Yield (cfs/mi <sup>2</sup> )	
Q <sub>7-10</sub> Flow (cfs)	3,720	Q <sub>7-10</sub> Basis	StreamStats
Watershed No.	7-C	Chapter 93 Class.	WWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	POLYCHLORINATED BIPHENYLS (PCBS)		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	PPL Bruner Island		
PWS Waters	Susquehanna River	Municipality	East Manchester Twp, York County
PWS RMI	39.9	Distance from Outfall (mi)	13

Outfall 003 is identified as a no exposure outfall on the application.

Drainage Area: 41,758 sq ft

% Impervious: 40

Description of Materials / Activities in Drainage Area Exposed to Precipitation:  
Airport Road, parking lot

Description of Treatment or BMPs in Drainage Area to Control Pollutants in Stormwater:  
None provided

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	004	Design Flow (MGD)	N/A (stormwater)
Latitude	40° 13' 17"	Longitude	-76° 51' 2"
Wastewater Description: Stormwater associated with industrial activity.			
Receiving Waters	Susquehanna River (WWF, MF)	Stream Code	6685
NHD Com ID	56404165	RMI	52.61
Drainage Area	24,300 sq. mi.	Yield (cfs/mi <sup>2</sup> )	
Q <sub>7-10</sub> Flow (cfs)	3,720	Q <sub>7-10</sub> Basis	StreamStats
Watershed No.	7-C	Chapter 93 Class.	WWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	POLYCHLORINATED BIPHENYLS (PCBS)		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	PPL Bruner Island		
PWS Waters	Susquehanna River	Municipality	East Manchester Twp, York County
PWS RMI	39.9	Distance from Outfall (mi)	13

Drainage Area: 2,151,979 sq ft

% Impervious: 50

Description of Materials / Activities in Drainage Area Exposed to Precipitation:

Northeast side of airport – airport equipment maintenance and fueling areas, runway, parking lots

Description of Treatment or BMPs in Drainage Area to Control Pollutants in Stormwater:

Stormwater is conveyed through an oil/water separator prior to discharge.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	005	Design Flow (MGD)	N/A (stormwater)
Latitude	40° 13' 17"	Longitude	-76° 50' 43"
Wastewater Description: Stormwater associated with industrial activity.			
Receiving Waters	Susquehanna River (WWF, MF)	Stream Code	6685
NHD Com ID	56404165	RMI	52.61
Drainage Area	24,300 sq. mi.	Yield (cfs/mi <sup>2</sup> )	
Q <sub>7-10</sub> Flow (cfs)	3,720	Q <sub>7-10</sub> Basis	StreamStats
Watershed No.	7-C	Chapter 93 Class.	WWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	POLYCHLORINATED BIPHENYLS (PCBS)		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	PPL Bruner Island		
PWS Waters	Susquehanna River	Municipality	East Manchester Twp, York County
PWS RMI	39.9	Distance from Outfall (mi)	13

Drainage Area: 87,766 sq ft

% Impervious: 65

Description of Materials / Activities in Drainage Area Exposed to Precipitation:  
Northeast side of airport – aircraft storage and maintenance and hangars, aircraft fueling area.

Description of Treatment or BMPs in Drainage Area to Control Pollutants in Stormwater:  
None provided

Compliance History	
<b>Summary of DMRs:</b>	<p>The facility was required to submit semiannual sampling results for pH, BOD5, COD, TSS, TDS, Oil and Grease, Ammonia-Nitrogen, and Total BTEX at Outfalls 001, 002, 003, 004, and 005 under their previous permit. The facility is up to date with their eDMR submissions.</p> <p>eDMR sampling results can be found in Table 1 below.</p> <p>The facility was required to submit E. Coli and Fecal Coliform impairment sampling results for the renewal application at Outfall 002 due to the pathogen impairment of the Yellow Breeches Creek (CWF, MF). The discharge is not expected to cause or contribute to the pathogen impairment.</p> <p>The facility was required to submit pH and PCB impairment sampling results for the renewal application at Outfalls 003, 004, and 005 due to the pH and PCB impairment of the Susquehanna River (WWF, MF). Due to the lack of discharge at Outfalls 003, 004, and 005, samples were not able to be collected. The discharge is not expected to cause or contribute to the pH and PCB impairment.</p>
<b>Summary of Inspections:</b>	<p>The facility was last inspected on 6/23/2022. No violations were noted.</p> <p>The client currently has no open violations that should affect issuance of the final permit.</p>



Table 1. eDMR Data (2020-2024)

	Outfall 001							
Monitoring Period	BOD5	COD	pH	TSS	Oil and Grease	Ammonia-Nitrogen	Total BTEX	TDS
1st Half 2020	6	75	7.79	10	4	0.25	0.003	102
2nd Half 2020	2	15	8.05	5	4.3	0.114	0.003	126
1st Half 2021	ND	ND	ND	ND	ND	ND	ND	ND
2nd Half 2021	ND	ND	ND	ND	ND	ND	ND	ND
1st Half 2022	ND	ND	ND	ND	ND	ND	ND	ND
2nd Half 2022	ND	ND	ND	ND	ND	ND	ND	ND
1st Half 2023	ND	ND	ND	ND	ND	ND	ND	ND
2nd Half 2023	ND	ND	ND	ND	ND	ND	ND	ND
1st Half 2024	2	5	8.09	124	2.1	0.07	0.001	95
2nd Half 2024	5.5	11	8.12	13	2.6	0.24	3.9	78
Avg.	3.875	26.5	8.012	38	3.25	0.1685	0.977	100
Max.	6	75	8.12	124	4.3	0.25	3.9	126

Outfall 002							
BOD5	COD	pH	TSS	Oil and Grease	Ammonia-Nitrogen	Total BTEX	TDS
4.6	15	7.94	87	3.7	0.327	0.003	436
2	15	8.12	5	3.8	0.1	0.003	80
2	15	7.53	34	4	0.284	0.003	41
2	15	7.53	34	4	0.284	0.003	41
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
2	5	8.06	15	3.8	0.01	1	61
2.52	13	7.84	35	3.86	0.201	0.202	132
4.6	15	8.12	87	4	0.327	1	436

Outfall 003							
BOD5	COD	pH	TSS	Oil and Grease	Ammonia-Nitrogen	Total BTEX	TDS
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
2	15	7.49	8	3.9	0.709	0.003	105
2	15	7.4	8	3.9	0.709	0.003	105
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
2	15	7.45	8	3.9	0.709	0.003	105
2	15	7.49	8	3.9	0.709	0.003	105

Table 1 continued. eDMR Data (2020-2024)

Monitoring Period	Outfall 004							TDS
	BOD5	COD	pH	TSS	Oil and Grease	Ammonia-Nitrogen	Total BTEX	
1st Half 2020	ND	ND	ND	ND	ND	ND	ND	ND
2nd Half 2020	ND	ND	ND	ND	ND	ND	ND	ND
1st Half 2021	ND	ND	ND	ND	ND	ND	ND	ND
2nd Half 2021	ND	ND	ND	ND	ND	ND	ND	ND
1st Half 2022	ND	ND	ND	ND	ND	ND	ND	ND
2nd Half 2022	ND	ND	ND	ND	ND	ND	ND	ND
1st Half 2023	ND	ND	ND	ND	ND	ND	ND	ND
2nd Half 2023	ND	ND	ND	ND	ND	ND	ND	ND
1st Half 2024	2	16	8.35	1	1.2	0.05	0.001	1
2nd Half 2024	ND	ND	ND	ND	ND	ND	ND	ND

Avg. 2 16 8.35 1 1.2 0.05 0.001 1  
Max. 2 16 8.35 1 1.2 0.05 0.001 1

Outfall 005							
BOD5	COD	pH	TSS	Oil and Grease	Ammonia-Nitrogen	Total BTEX	TDS
ND	ND	ND	ND	ND	ND	ND	ND
2	15	7.49	5	4.1	0.137	0.003	25
2	15	7.51	20	4	0.28	0.003	31
2	15	7.5	20	4	0.28	0.003	20
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND

2 15 7.5 15 4.033333 0.232333333 0.003 25.33333  
2 15 7.51 20 4.1 0.28 0.003 31

### Summary of Sampling Results:

ND = No Discharge

Values highlighted in red in Table 1 exceeded typical PAG-03 benchmarks or permit limits. The applicable PAG-03 benchmarks include: 30 mg/L for BOD5; 120 mg/L for COD; 9.0 S.U. for pH; 100 mg/L for TSS; 30 mg/L for Oil and Grease. Benchmarks were exceeded for TSS at Outfall 001 for one monitoring period.

Outfall 003 is identified as a no exposure outfall in the application. Available sample results for Outfall 003 meet the PAG-03 benchmark values that are indicative of no exposure conditions per the No Exposure Instructions (3800-PM-BCW0083f).

**Proposed Effluent Limitations and Monitoring Requirements**

Sampling at Outfall 003 will no longer be required for this permit since Outfall 003 is a no exposure outfall. All parameters from the previous permit will continue to be sampled at Outfalls 001, 002, 004, and 005. Total Nitrogen and Total Phosphorus monitoring will also be added to Outfalls 001, 002, 004, and 005, consistent with the monitoring requirements of a PAG-03.

**Table 2.** Proposed Monitoring Requirements for Outfall 001, 002, 004, and 005.

Parameter	Effluent Limitations				Monitoring Requirements <sup>(1),(2)</sup>	
	Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen (mg/L) <sup>(3)</sup>	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand (COD) (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids (TSS) (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
Total Dissolved Solids (TDS) (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
Biochemical Oxygen Demand (BOD5) (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
BTEX, Total (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
Ammonia-Nitrogen (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab

**Footnotes**

- (1) In accordance with Part C V.C., the permittee shall conduct additional monitoring if specified by DEP in the letter authorizing permit coverage or other correspondence.
- (2) This is the minimum number of sampling events required. Permittees may optionally perform additional sampling.
- (3) Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO<sub>2</sub>+NO<sub>3</sub>-N), where TKN and NO<sub>2</sub>+NO<sub>3</sub>-N are measured in the same sample.

Benchmarks for pH of 9.0 S.U., TSS of 100 mg/L, COD of 120 mg/L, Oil and Grease of 30 mg/L, BOD5 of 30 mg/L are included, which is typical of the monitoring requirements for PAG-03 Appendices (effective 3/24/2023).

The BMPs from Appendix G are included.

Special Conditions from the previous permit have been carried over in Part C.VI.

The requirement to submit an Annual Report is included.

The requirement for routine inspections on a semiannual basis is included.

**Antidegradation (93.4):**

The applicant is not proposing a new or increased discharge to a High Quality (HQ) or Exceptional Value (EV) water, so Module 1 (Anti Degradation Module) was not attached to the application.

The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. Best Management Practices will ensure that the existing instream uses are protected. No Exceptional Value Waters are impacted by this discharge.

The designated use of the receiving waters are as follows:

Yellow Breeches Creek (CWF, MF)

Marsh Run (WWF, MF)

Susquehanna River (WWF, MF)





Figure 1A. Site Layout Map



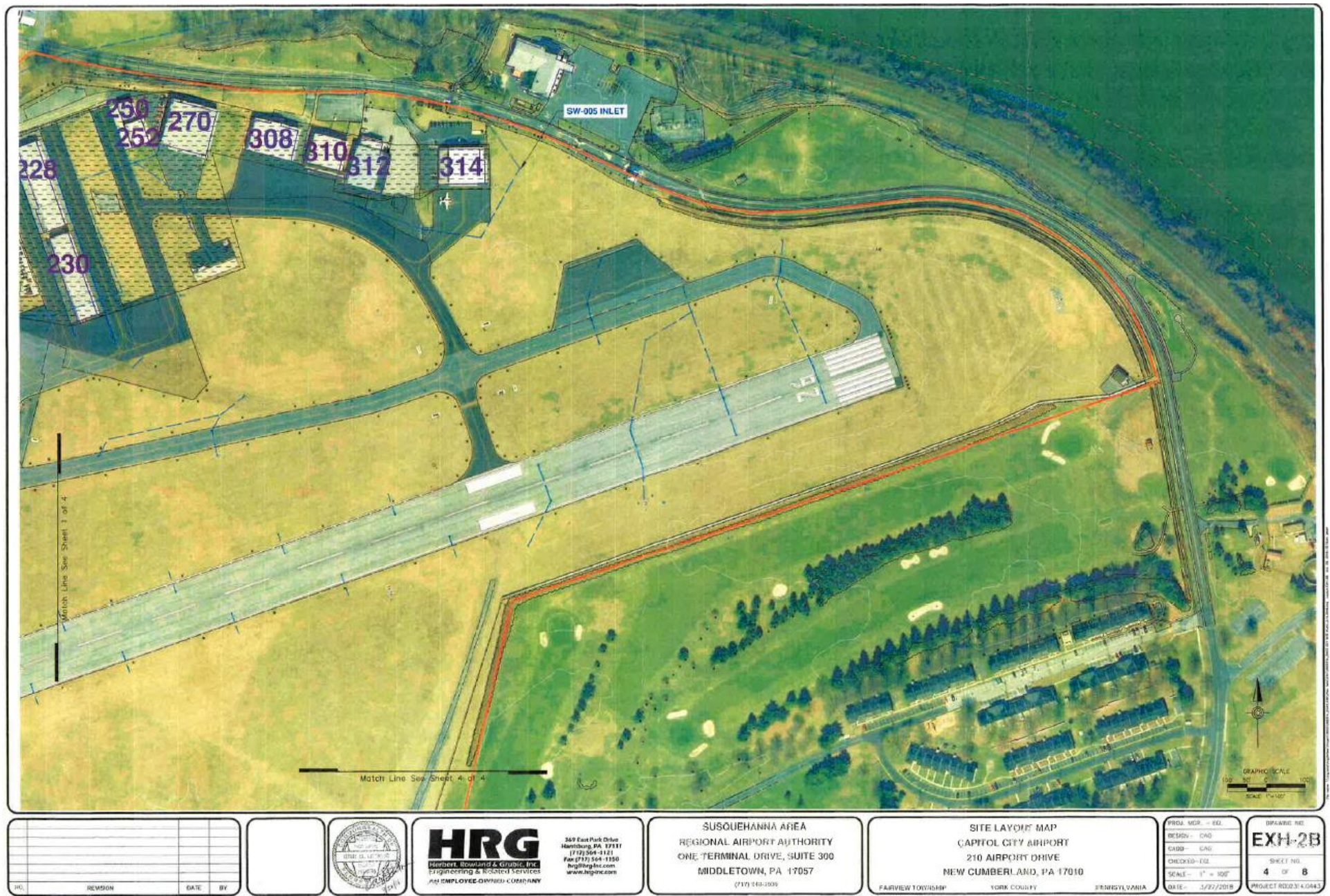


Figure 1B. Site Layout Map





Figure 1C. Site Layout Map





Figure 1D. Site Layout Map