pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**New**	Application No.	**PA0294136**
Facility Type	**Storm Water**	APS ID	**1090321**
Major / Minor	**Minor**	Authorization ID	**1443081**

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

Applicant and Facility Information

Applicant Name	**Philips Ultrasound**	Facility Name	**Philips Ultrasound**
Applicant Address	1 Echo Drive	Facility Address	1 Echo Drive
	Reedsville, PA 17084-8603		Reedsville, PA 17084-8603
Applicant Contact	Kathryn Bonanni	Facility Contact	Kathryn Bonanni
Applicant Phone	(717) 667-5054	Facility Phone	(717) 667-5054
Client ID	366897	Site ID	484063
SIC Code	3845	Municipality	Armagh Township
SIC Description	Manufacturing - Electromedical Equipment	County	Mifflin
Date Application Received	June 6, 2023	EPA Waived?	Yes
Date Application Accepted	June 8, 2023	If No, Reason	

Purpose of Application: NPDES discharge of stormwater associated with industrial activity.

Summary of Review

This is a new application for a NPDES individual permit for discharges of stormwater associated with industrial activity located in Armagh Township, Mifflin County. See Figures 1 and 2 for a Site Layout Map and Site Plan.

The facility's SIC code is 3845 (medical ultrasound transducer manufacturing and assembly) which requires an NPDES permit. Since the facility discharges to an HQ-CWF surface water, the facility must be covered under a NPDES Individual Permit for Discharges of Stormwater Associated with Industrial Activities.

Facility Description, from GIF: three shift medical device manufacturing facility. If the facility qualified for a PAG-03, they would fall under Appendix J based on their SIC Code.

An application was received 6/6/2023. The application was deemed complete on 6/8/2023. Technical deficiencies were sent on 7/25/2023. The technical deficiencies were addressed on 8/23/2023.

The facility has two outfalls that discharges to a UNT to Tea Creek (HQ-CWF): Outfalls 001 and 002. Outfall 001 is located at the northeastern portion of the site at a stormwater retention basin. Outfall 002 is located at the southeastern portion of the site at a stormwater retention basin.

Per the application, the PPC Plan was last updated in March 2023.

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. There are no open violations for the client that would warrant withholding the issuance of this permit.

Approve	Deny	Signatures	Date
X		*Jacob S. Rakowsky* Jacob S. Rakowsky, E.I.T. / Project Manager	9/11/2023
X		*Scott M. Arwood* Scott M. Arwood, P.E. / Environmental Engineer Manager	9/12/2023

Summary of Review

EPA waiver is in effect.

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)	0
Latitude	40º 42' 3.3"	Longitude	-77º 35' 33.2"
Wastewater Description:	Stormwater associated with industrial activities.		
Receiving Waters	Unnamed Tributary of Tea Creek (HQ-CWF, MF)	Stream Code	12535
NHD Com ID	66203969	RMI	0.8
Drainage Area	1.34	Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)	0.163	Q_{7-10} Basis	StreamStats
Watershed No.	12-A	Chapter 93 Class.	HQ-CWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Mifflintown Muni Auth		
PWS Waters	Juniata River	Municipality	Milford Twp, Juniata County
PWS RMI	37.3	Distance from Outfall (mi)	~19.2

Drainage Area: 708,400 SF

% Impervious: 35.5%

Description of Materials/Activities in Drainage Area Exposed to Precipitation:
From application, parking lot and roof of building, mostly grass and wooded area.

Description of Treatment or BMPs in Drainage Area to Control Pollutants in Stormwater:
From application, basin is designed to retain water on-site.

Outfall 001 is marked as no-exposure on the application. The facility itself performs all manufacturing, assembly, and testing of medical ultrasound transducers within the confines of the building. Raw materials are received and final products are shipped from a fully covered loading dock with locking levelers to minimize any exposure to the elements.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002	Design Flow (MGD)	0
Latitude	40º 41' 58.2"	Longitude	-77º 35' 45.9"
Wastewater Description:	Stormwater associated with industrial activity.		
Receiving Waters	Unnamed Tributary of Tea Creek (HQ-CWF, MF)	Stream Code	12535
NHD Com ID	66203969	RMI	0.8
Drainage Area	1.34	Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)	0.163	Q_{7-10} Basis	StreamStats
Watershed No.	12-A	Chapter 93 Class.	HQ-CWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Mifflintown Muni Auth		
PWS Waters	Juniata River	Municipality	Milford Twp, Juniata County
PWS RMI	37.3	Distance from Outfall (mi)	~19.2

Drainage Area: 722,500 SF

% Impervious: 35.5%

Description of Materials/Activities in Drainage Area Exposed to Precipitation:
From application, parking lot and roof of building, mostly grass and wooded area.

Description of Treatment or BMPs in Drainage Area to Control Pollutants in Stormwater:
From application, basin is designed to retain water on-site.

Outfall 002 is marked as no-exposure on the application. The facility itself performs all manufacturing, assembly, and testing of medical ultrasound transducers within the confines of the building. Raw materials are received and final products are shipped from a fully covered loading dock with locking levelers to minimize any exposure to the elements.

Compliance History	
Summary of DMRs:	Since this is an application for a new permit, DMR data is not available. A summary of sampling results can be found in Table 1 below.
Summary of Inspections:	Since this is an application for a new permit, inspections have not been conducted at the site.

Table 1. Application Sampling Results

Pollutant	Outfall 001	Outfall 002
Oil and Grease (mg/L)	<4.9	<4.9
BOD5 (mg/L)	16	6.9
COD (mg/L)	117	42.8
TSS (mg/L)	118	14
TKN (mg/L)	2.875	2.39
TN (mg/L)	<5.075	<4.79
TP (mg/L)	0.117	0.041
pH (mg/L)	7.59	7.73
Fecal Coliform (MPN/100mL)	970	2810
E. Coli (MPN/100mL)	850	1600

Proposed Effluent Limitations and Monitoring Requirements

Based on the facility's **SIC Code of 3845**, the **applicable PAG-03** NPDES Permit for Discharges of Stormwater Associated with Industrial Activity (effective 3/24/2023) appendix is **Appendix J**, which would include the following monitoring requirements:

Table 2. PAG-03, Appendix J Requirements

Parameter	Monitoring Requirements (1),(2)		Benchmark Values
	Minimum Measurement Frequency	Sample Type	
Total Nitrogen (mg/L) (3)	1 / 6 months	Calculation	XXX
Total Phosphorus (mg/L)	1 / 6 months	Grab	XXX
Total Suspended Solids (TSS) (mg/L)	1 / 6 months	Grab	100
Oil and Grease (mg/L)	1 / 6 months	Grab	30
pH (S.U.)	1 / 6 months	Grab	9.0
Chemical Oxygen Demand (mg/L)	1 / 6 months	Grab	120

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 (NO2+NO3-N), where TKN and NO2+NO3-N are measured in the same sample.

Table 3. Proposed Monitoring Requirements

Parameter	Effluent Limitations				Monitoring Requirements	
	Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Nitrogen (mg/L)	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
TSS (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
pH (S.U.)	XXX	XXX	Report	XXX	1/6 months	Grab
COD (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab

All required parameters from PAG-03 Appendix J are included in this permit.
Benchmarks for TSS of 100 mg/L, Oil and Grease of 30 mg/L, pH of 9.0 S.U., and COD of 120 mg/L are included, which is typical of the monitoring requirements for PAG-03 Appendices (effective 3/24/2023).
The BMPs from Appendix J are included.
The requirement to submit an Annual Report is included.
The requirement for routine inspections on a semiannual basis is included.

Antidegradation (93.4):

Since the applicant has an existing discharge to HQ or EV waters and is seeking a permit for the first time, Module 1 (Anti Degradation Module) was included with the application.

The discharge commenced prior to 1980. Stormwater basins were constructed during a permitted construction project and provide treatment to any potential runoff from the facility.

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:
UNT to Tea Creek (HQ-CWF, MF)

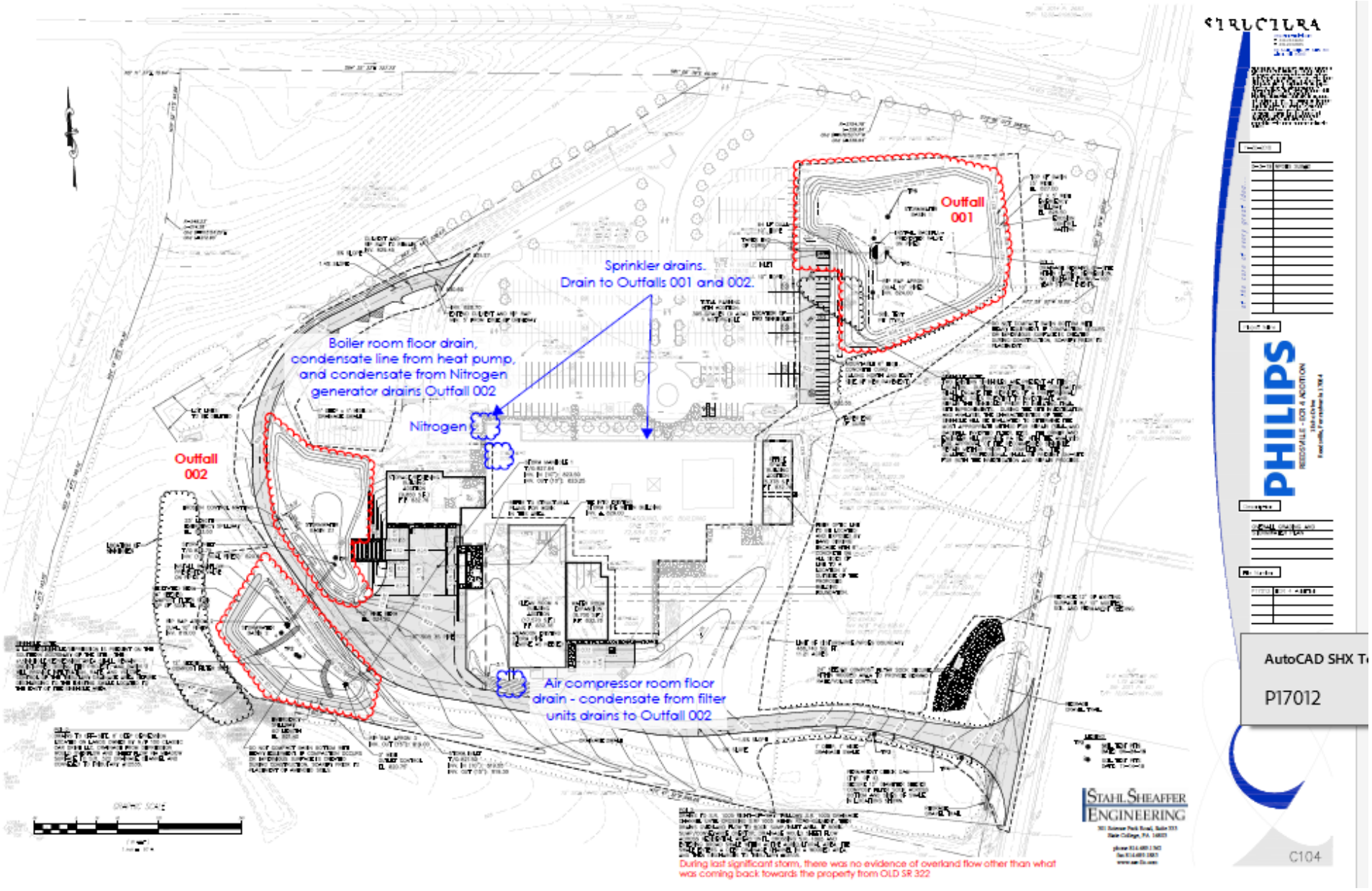

Figure 1. Site Layout

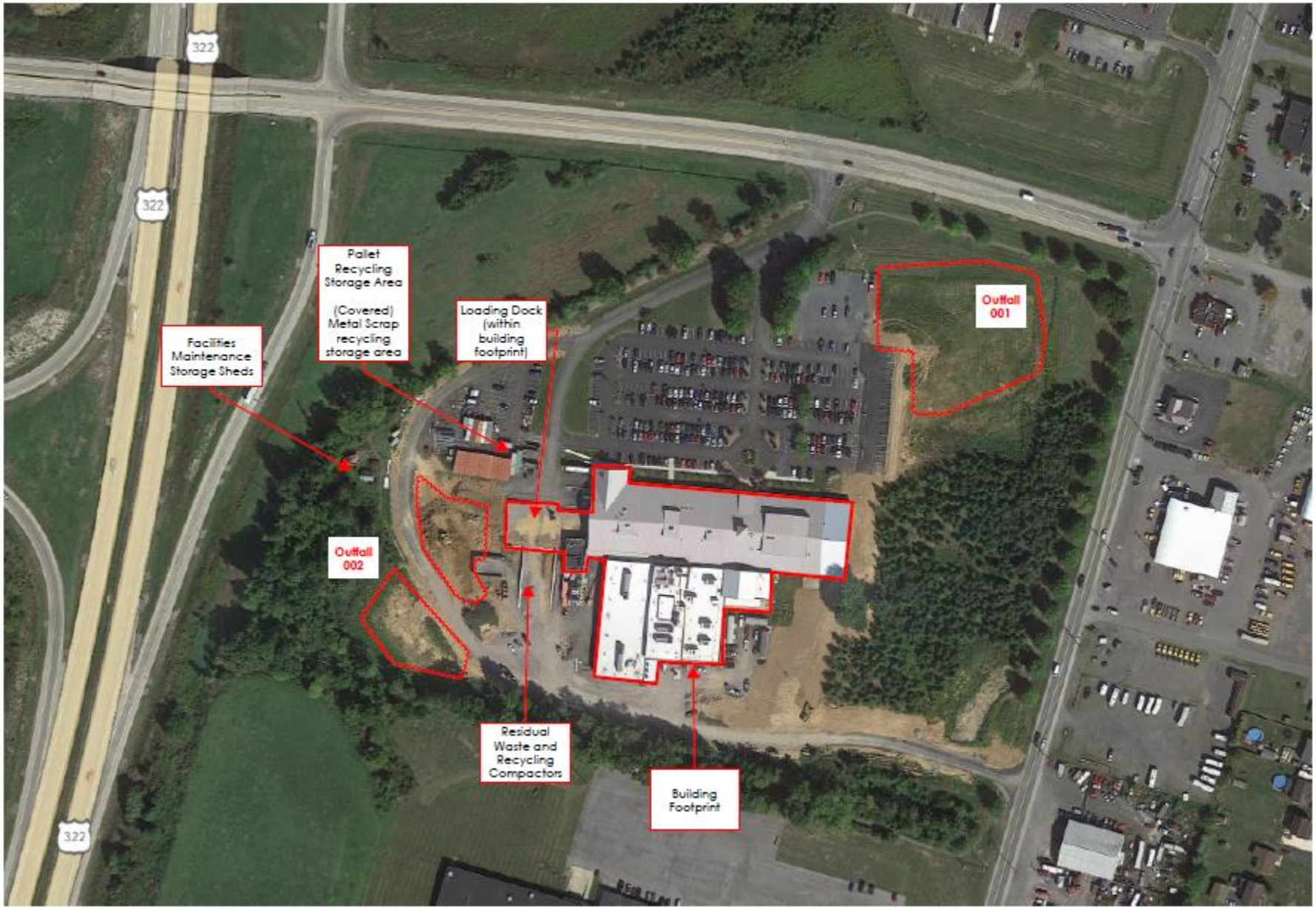

Figure 2. Site Plan