



Application Type
Facility Type
Major / Minor

New
Storm Water
Minor

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

Application No. **PA0295931**
APS ID **1102383**
Authorization ID **1492461**

Applicant and Facility Information

Applicant Name	<u>Teledyne Flir Surveillance Inc.</u>	Facility Name	<u>Teledyne Flir Surveillance Freeport Facility</u>
Applicant Address	<u>183 Northpointe Boulevard</u> <u>Freeport, PA 16229-2603</u>	Facility Address	<u>183 Northpointe Boulevard</u> <u>Freeport, PA 16229-2603</u>
Applicant Contact	<u>Paul Barber</u>	Facility Contact	<u>Reed Titus</u>
Applicant Phone	<u>(724) 295-2880</u>	Facility Phone	<u>(724) 294-2228</u>
Applicant Email	<u>paul.barber@teledyne.com</u>	Facility Email	<u>reed.titus@teledyne.com</u>
Client ID	<u>381426</u>	Site ID	<u>868719</u>
SIC Code	<u>3827</u>	Municipality	<u>South Buffalo Township</u>
SIC Description	<u>Manufacturing - Optical Instruments And Lenses</u>	County	<u>Armstrong</u>
Date Application Received	<u>June 28, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>January 10, 2025</u>	If No, Reason	
Purpose of Application	<u>New NPDES Permit Coverage for the Discharge of Stormwater Associated with Industrial Activity</u>		

Summary of Review

This is a new NPDES permit application for the Teledyne Flir Surveillance Freeport Facility for the discharge of stormwater associated with industrial activity. This existing facility supplies Optical components (coated and uncoated lenses, windows, prisms etc.), Optical Assemblies, Opto-Mechanical Assemblies and Opto-Electro-Mechanical Assemblies to other Teledyne companies as well as other companies in the Scientific, Manufacturing, Research and Military markets. Significant manufacturing operations include:

- Optics Manufacturing, including single point diamond turning, conventional grinding and polishing, CNC grinding and polishing.
- Optical thin film coating, including IR, and Visible coatings.
- Assembly production.
- Metrology/Inspection of all manufacturing done in house.
- Optical and Assembly Design.

The campus consists of a 29,898 sq. ft main building, front and rear parking lots with grass on the street side and on two sides of the rear parking lot. It is situated on approximately 5.8 acres of property located in the Northpointe Industrial Park, South Buffalo Township, Armstrong County.

Teledyne FLIR Defense, Inc., Freeport PA maintains an on-site inventory of hazardous materials which consist of Various acids, paints, lubricants, polishing and grinding compounds, petroleum-based solvents, and cleaners all under the quantity of 5 gallons, Acetone, Mineral Spirits, and Isopropyl Alcohol in larger quantities than 5 gallons, Liquid Nitrogen in quantity over 1,000 lbs. at any one time. The inventory of hazardous materials is used for production and manufacturing purposes and are stored inside the main building except for the Liquid Nitrogen, which is stored outside, on the rear of the building enclosed within a gated fence.

Approve	Deny	Signatures	Date
X		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer	February 14, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	February 18, 2025

Summary of Review

DEP conducted a site visit on April 18, 2024, to determine if there are actual stormwater discharges from the site and, if so, to confirm that the discharges are to a special protection watershed. Subsequently, DEP determined that the stormwater holding pond within the industrial park does discharge to surface waters that are designated as High-Quality (HQ).

The site is required to submit an individual NPDES permit application because the discharge is to Pine Run which is a surface water classified as a High-Quality watershed (Title 25 Chapter 92a.54.e.9.). The site has two stormwater outfalls. The drainage area of Outfall 001 consists of roof drains and drains from the front parking lots for stormwater. External condensers are available within this area. No production activity or external storage activity happen within this area. Outfall 001 is a representative for Outfall 002.

Based on the description of the site in the application and the stormwater discharge concentrations; the site currently meets no exposure conditions. By meeting the no exposure conditions, the stormwater discharges from the site are considered non-degrading quality and thus are not expected to degrade the receiving stream. To ensure that the site continues to meet non-degrading conditions, annual monitoring of the parameters of concern in the application PAG-03 appendices will be imposed. Additionally, no benchmark values or the corrective action plan requirements will be included in Part C of the permit because the site has already indicated that it can achieve non-degrading conditions. The DMRs will be reviewed during the next permit renewal to evaluate if the site has remained of non-degrading conditions and the need to implement benchmark values and corrective action plans.

The facility's SIC Code is 3827, Optical Instruments and Lenses, which requires the facility to follow stormwater monitoring requirements for Appendix J of the PAG-03 General Permit.

Act 14 – Proof of Notification was submitted and received.

SPECIAL CONDITIONS: NONE

There are NO open violations in WMS for the subject Client ID (381426) as of February 14, 2025.

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	40° 45' 29.09"	Longitude	-79° 38' 20.54"
Outfall No.	002	Design Flow (MGD)	0
Latitude	40° 45' 27.48"	Longitude	-79° 38' 19.09"
Quad Name	Worthington	Quad Code	40079G6
Wastewater Description:	Stormwater		
Receiving Waters	Pine Run (HQ-TSF)	Stream Code	42607
NHD Com ID	123973742	RMI	4.44
Drainage Area	---	Yield (cfs/mi ²)	---
Q ₇₋₁₀ Flow (cfs)	---	Q ₇₋₁₀ Basis	---
Elevation (ft)	---	Slope (ft/ft)	---
Watershed No.	18-F	Chapter 93 Class.	HQ-TSF
Existing Use	---	Existing Use Qualifier	---
Exceptions to Use	---	Exceptions to Criteria	---
Assessment Status	Impaired		
Cause(s) of Impairment	Siltation		
Source(s) of Impairment	Natural Sources		
TMDL Status	---	Name	---
Background/Ambient Data		Data Source	
pH (SU)	7.0	Default	
Temperature (°F)			
Hardness (mg/L)			
Other:			
Nearest Downstream Public Water Supply Intake		Aqua Pennsylvania, Inc. - Emlenton	
PWS Waters	Allegheny River	Flow at Intake (cfs)	1,376
PWS RMI	90.0	Distance from Outfall (mi)	---

Changes Since Last Permit Issuance: N/A

Other Comments: The Pine Run—the receiving water for discharges from Outfall 001, 002—is impaired by Siltation but the subject facility is not expected to be a cause or source of the impairment.

Treatment Facility Summary				
Treatment Facility Name: Teledyne Flir Surveillance Freeport Facility				
WQM Permit No.	Issuance Date			
None				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Storm Water				
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal

Changes Since Last Permit Issuance: N/A

Other Comments: N/A

Development of Effluent Limitations			
Outfall No.	001	Design Flow (MGD)	0
Latitude	40° 45' 29.09"	Longitude	-79° 38' 20.54"
Outfall No.	002	Design Flow (MGD)	0
Latitude	40° 45' 27.48"	Longitude	-79° 38' 19.09"
Wastewater Description:	Stormwater		

Technology-Based Limitations

Comments: N/A

Water Quality-Based Limitations

Comments: No water quality modeling was conducted due to this being a discharge of stormwater only.

Best Professional Judgment (BPJ) Limitations

Comments: The facility's SIC Code is 3827, Optical Instruments and Lenses, which requires the facility to monitor the stormwater discharges for the pollutants of concern in Appendix J of the PAG-03 General Permit. The reporting requirements applicable to stormwater discharges are shown in Table 1 below.

Table 1: Proposed Effluent Monitoring Requirements

Parameter	Max Daily Concentration	Measurement Frequency	Sample Type
pH (S.U.)	Monitor and Report	1/ year	Grab
Total Suspended Solids (TSS)	Monitor and Report	1/ year	Grab
Total Nitrogen	Monitor and Report	1/ year	Grab
Total Phosphorus	Monitor and Report	1/ year	Grab
Oil and Grease	Monitor and Report	1/ year	Grab
Chemical Oxygen Demand (COD)	Monitor and Report	1/ year	Grab

Anti-Backsliding

N/A

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/ year	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/ year	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/ year	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/ year	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/ year	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/ year	Grab

Compliance Sampling Location: Outfall 001.

Teledyne Flir Surveillance Freeport Facility - Google Earth Aerial Imagery



Receiving Stream - eMap with Aerial Imagery

The screenshot shows the eMapPA web application interface. At the top, there is a banner with the Pennsylvania Department of Environmental Protection logo and the text "eMapPA". The main interface includes a legend on the left, a map view in the center, and various search and input fields on the right.

Legend (Left Side):

- Regulated Facilities and Related Information
- Streams and Water Resources
 - Water Quality
 - Existing Use Streams
 - Cold Water Fish
 - Exceptional Value
 - High Quality
 - Trout Stocking
 - Warm Water Fish
 - Overlap
 - Designated Use Streams
 - Cold Water Fish
 - Exceptional Value
 - High Quality
 - Trout Stocking
 - Warm Water Fish
 - Overlap
 - Missing from CH93
 - Boundaries
 - County Boundaries
 - Municipalities