

Application Type Renewal
Facility Type Storm Water
Major / Minor Minor

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

Application No. PA0053392
APS ID 1079936
Authorization ID 1425195

Applicant and Facility Information

| | | | |
|---------------------------|---|------------------|---|
| Applicant Name | <u>United Parcel Service, Inc.</u> | Facility Name | <u>UPS PAPHA Facility</u> |
| Applicant Address | <u>1 Hog Island Road</u> <u>Philadelphia, PA 19153</u> | Facility Address | <u>1 Hog Island Road</u> <u>Philadelphia, PA 19153</u> |
| Applicant Contact | <u>Tom Bakley</u> | Facility Contact | <u>Tom Bakley</u> |
| Applicant Phone | <u>(717) 433-5893</u> | Facility Phone | <u>(717) 433-5893</u> |
| Client ID | <u>143513</u> | Site ID | <u>452842</u> |
| SIC Code | <u>4512</u> | Municipality | <u>Tinicum Township</u> |
| SIC Description | <u>Trans. & Utilities - Air Transportation, Scheduled</u> | County | <u>Delaware</u> |
| Date Application Received | <u>January 31, 2023</u> | EPA Waived? | <u>Yes</u> |
| Date Application Accepted | <u></u> | If No, Reason | <u></u> |
| Purpose of Application | <u>Permit Renewal</u> | | |

Summary of Review

Applicant requests renewal of an NPDES permit to discharge stormwater from the UPS PAPHA Facility located in Tinicum Township, Delaware County to Delaware River.

The facility is a Air Terminal Freight Distribution Center and the industrial activities at the site are: Vehicle fueling, Ground Surface Equipment (GSE) fueling, Aircraft fueling, Aircraft and Ramp Deicing, Aircraft maintenance, GSE maintenance, Vehicle maintenance, Vehicle washing and GSE washing.

The facility's stormwater conveyance system is inspected on a semi-annual basis. Maintenance includes stormwater catch basin clean outs (when necessary), routine inspection and clean out of the facility's oil/water separator.

There are four outfalls at the site. Outfall 001 is for stormwater from the runway and jet fueling areas. During the winter months, drainage from the runway and fueling areas may contain deicing fluid (propylene glycol) and this drainage is diverted to the City of Philadelphia's sanitary sewer. Minimal amounts of deicing fluid may discharge through Outfall 001 (via a drainage channel with control weir) from stockpiled snow. When deicing fluid is used, the permit requires monthly monitoring of propylene glycol. All existing parameters are carried over to the draft permit as follows: pH, BOD5, COD, TSS, TDS, Oil and Grease, and Ammonia-Nitrogen. Appendix G of the 'General permit for discharges of stormwater associated with industrial activity' (PAG-03) is applicable to facilities with SIC Code 4512. Monitoring for Total Nitrogen and Total Phosphorus is included to be consistent with the new PAG-03 Appendix G.

Outfalls 002 and 004 drain vehicle fueling and storage transfer areas and both are equipped with oil/water separators. Outfall 003 drains a vehicle storage area with no fueling or transfer of stored material occurs. PAG-03 Appendix G parameters are included for Outfalls 002, 003 and 004 in the draft permit as follows: Total Nitrogen, Total Phosphorus, pH, BOD5, COD, TSS, Ammonia-Nitrogen, and TDS. The existing Oil and Grease limit is also continuing in the draft permit.

| Approve | Deny | Signatures | Date |
|---------|------|---|----------------|
| X | | <i>Sara Abraham</i> Sara Reji Abraham, E.I.T. / Project Manager | April 24, 2023 |
| X | | <i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager | 05/03/2023 |

Summary of Review

Facility is in compliance with the existing permit requirements. No comments received from Operations section.

The receiving stream Delaware River is impaired due to PCBs and there is a PCB TMDL exists for the Delaware River. According to the permit renewal requirement, facility provided sample results for PCBs. Total PCBs reported as < 0.25 ug/l (< 250,000 pg/l) for all four outfalls. These results do not give us a clear picture of the PCB concentration in the discharge; therefore, we suggest the facility to analyze PCB samples using EPA method 1668 A and submit the results at the next permit renewal.

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.

Act 14 Notifications:

Tinicum Township - January 26, 2023
Delaware County - January 26, 2023

Permit Conditions:

- A. Stormwater Outfalls
- B. BMPs
- C. Routine Inspections
- D. PPC Plan
- E. Stormwater Monitoring
- F. Acquire Necessary Property Rights
- G. Fire Sprinkler System Discharge
- H. Proper Sludge Disposal

Compliance History

DMR Data for Outfall 001 (from January 1, 2022 to December 31, 2022)

| Parameter | DEC-22 | NOV-22 | OCT-22 | SEP-22 | AUG-22 | JUL-22 | JUN-22 | MAY-22 | APR-22 | MAR-22 | FEB-22 | JAN-22 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| pH (S.U.) Instantaneous Minimum | 7.0 | | | | | | 7.2 | | | | | |
| pH (S.U.) Instantaneous Maximum | 7.0 | | | | | | 7.2 | | | | | |
| BOD5 (mg/L) Daily Maximum | 50.0 | | | | | | 14.0 | | | | | |
| COD (mg/L) Daily Maximum | 27.0 | | | | | | 39.0 | | | | | |
| TSS (mg/L) Daily Maximum | 360.0 | | | | | | 200 | | | | | |
| Total Dissolved Solids (mg/L) Daily Maximum | 190.0 | | | | | | 160 | | | | | |
| Oil and Grease (mg/L) Semi-Annual Average | < 3.6 | | | | | | < 3.6 | | | | | |
| Oil and Grease (mg/L) Instantaneous Maximum | < 3.6 | | | | | | < 3.6 | | | | | |
| Ammonia (mg/L) Daily Maximum | 0.193 | | | | | | 0.751 | | | | | |
| Propylene Glycol (mg/L) Daily Maximum | < 2.0 | < 2.00 | < 2.00 | GG | GG | GG | GG | < 2.00 | 0.561 | 0.539 | < 2 | 2.9 |

DMR Data for Outfall 002 (from January 1, 2022 to December 31, 2022)

| Parameter | DEC-22 | NOV-22 | OCT-22 | SEP-22 | AUG-22 | JUL-22 | JUN-22 | MAY-22 | APR-22 | MAR-22 | FEB-22 | JAN-22 |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| pH (S.U.) Instantaneous Minimum | 7.6 | | | | | | 6.7 | | | | | |
| pH (S.U.) Instantaneous Maximum | 7.6 | | | | | | 6.7 | | | | | |

**NPDES Permit Fact Sheet
UPS PAPHA Facility**

NPDES Permit No. PA0053392

| | | | | | | | | | | | | |
|---|-------|--|--|--|--|--|-------|--|--|--|--|--|
| BOD5 (mg/L) Daily Maximum | 3.7 | | | | | | 13.0 | | | | | |
| COD (mg/L) Daily Maximum | 27.0 | | | | | | 96 | | | | | |
| TSS (mg/L) Daily Maximum | 10.0 | | | | | | 130 | | | | | |
| Oil and Grease (mg/L) Semi-Annual Average | < 4.0 | | | | | | < 3.6 | | | | | |
| Oil and Grease (mg/L) Instantaneous Maximum | < 4.0 | | | | | | < 3.6 | | | | | |
| Total Nitrogen (mg/L) Daily Maximum | 1.8 | | | | | | 3.7 | | | | | |
| Total Phosphorus (mg/L) Daily Maximum | 0.079 | | | | | | 0.227 | | | | | |

DMR Data for Outfall 003 (from January 1, 2022 to December 31, 2022)

| Parameter | DEC-22 | NOV-22 | OCT-22 | SEP-22 | AUG-22 | JUL-22 | JUN-22 | MAY-22 | APR-22 | MAR-22 | FEB-22 | JAN-22 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| pH (S.U.) Instantaneous Minimum | 8.0 | | | | | | 7.0 | | | | | |
| pH (S.U.) Instantaneous Maximum | 8.0 | | | | | | 7.0 | | | | | |
| BOD5 (mg/L) Daily Maximum | 5.8 | | | | | | 14.0 | | | | | |
| COD (mg/L) Daily Maximum | 51.0 | | | | | | 62.0 | | | | | |
| TSS (mg/L) Daily Maximum | 14.0 | | | | | | 42.0 | | | | | |
| Oil and Grease (mg/L) Semi-Annual Average | < 4.0 | | | | | | < 3.6 | | | | | |
| Oil and Grease (mg/L) Instantaneous Maximum | < 4.0 | | | | | | < 3.6 | | | | | |
| Total Nitrogen (mg/L) Daily Maximum | 1.5 | | | | | | 1.1 | | | | | |
| Total Phosphorus (mg/L) Daily Maximum | 0.101 | | | | | | 0.098 | | | | | |

DMR Data for Outfall 004 (from January 1, 2022 to December 31, 2022)

NPDES Permit Fact Sheet
UPS PAPHA Facility

NPDES Permit No. PA0053392

| Parameter | DEC-22 | NOV-22 | OCT-22 | SEP-22 | AUG-22 | JUL-22 | JUN-22 | MAY-22 | APR-22 | MAR-22 | FEB-22 | JAN-22 |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| pH (S.U.) Instantaneous Minimum | 7.1 | | | | | | 7.1 | | | | | |
| pH (S.U.) Instantaneous Maximum | 7.1 | | | | | | 7.1 | | | | | |
| BOD5 (mg/L) Daily Maximum | 8.4 | | | | | | 2.9 | | | | | |
| COD (mg/L) Daily Maximum | 22.0 | | | | | | 12.0 | | | | | |
| TSS (mg/L) Daily Maximum | 8.9 | | | | | | 14 | | | | | |
| Oil and Grease (mg/L) Semi-Annual Average | < 4.0 | | | | | | < 3.6 | | | | | |
| Oil and Grease (mg/L) Instantaneous Maximum | < 4.0 | | | | | | < 3.6 | | | | | |
| Total Nitrogen (mg/L) Daily Maximum | 3.1 | | | | | | 1.1 | | | | | |
| Total Phosphorus (mg/L) Daily Maximum | 0.106 | | | | | | 0.085 | | | | | |

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" (362-0400-001), 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 | 6.0 Inst Min | XXX | XXX | 9.0 | 1/6 months | Grab |
| BOD5 | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| COD | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| TSS | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Dissolved Solids | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Oil and Grease | XXX | XXX | XXX | 15 SEMI AVG | XXX | 30 | 1/6 months | Grab |
| Total Nitrogen | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Ammonia | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Phosphorus | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Propylene Glycol | XXX | XXX | XXX | XXX | Report | XXX | 1/month | Grab |

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Outfall 002, 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 | 6.0 Inst Min | XXX | XXX | 9.0 | 1/6 months | Grab |
| BOD5 | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| COD | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| TSS | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Dissolved Solids | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Oil and Grease | XXX | XXX | XXX | 15 SEMI AVG | XXX | 30 | 1/6 months | Grab |
| Total Nitrogen | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Ammonia-Nitrogen | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Phosphorus | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |

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" (362-0400-001), SOPs and/or BPJ.

Outfall 003, 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 | 6.0 Inst Min | XXX | XXX | 9.0 | 1/6 months | Grab |
| BOD5 | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| COD | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| TSS | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Dissolved Solids | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Oil and Grease | XXX | XXX | XXX | 15 SEMI AVG | XXX | 30 | 1/6 months | Grab |
| Total Nitrogen | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Ammonia-Nitrogen | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Phosphorus | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |

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" (362-0400-001), SOPs and/or BPJ.

Outfall 004, 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 | 6.0 Inst Min | XXX | XXX | 9.0 | 1/6 months | Grab |
| BOD5 | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| COD | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| TSS | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Dissolved Solids | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Oil and Grease | XXX | XXX | XXX | 15 SEMI AVG | XXX | 30 | 1/6 months | Grab |
| Total Nitrogen | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Ammonia-Nitrogen | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Phosphorus | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |