

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0062880
APS ID 355536
Authorization ID 1461573

Applicant and Facility Information

Applicant Name	<u>KidsPeace Corp.</u>	Facility Name	<u>KidsPeace Orchard Hills Campus</u>
Applicant Address	<u>5300 KidsPeace Drive</u> <u>Orefield, PA 18069</u>	Facility Address	<u>5300 KidsPeace Drive</u> <u>Orefield, PA 18069</u>
Applicant Contact	<u>Jeffrey Soldo</u>	Facility Contact	<u>Jeffrey Soldo</u>
Applicant Phone	<u>(610) 799-8441</u>	Facility Phone	<u>(610) 799-8441</u>
Client ID	<u>1530</u>	Site ID	<u>256375</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>North Whitehall Township</u>
Connection Status	<u>-</u>	County	<u>Lehigh</u>
Date Application Received	<u>November 1, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>November 1, 2023</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit.</u>		

Summary of Review


The applicant is requesting the renewal of an NPDES permit to discharge up to 0.150 MGD of treated sewage to Jordan Creek, a Trout Stocking, Migratory Fish (TSF, MF) designated receiving stream in State Water Plan Basin 2-C (Lower Lehigh River). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This discharge is not expected to affect public water supplies.

The facility currently has a hydraulic design capacity of 0.040 MGD and the annual average flow for 2023 was 0.02 MGD. Originally, the permit issued to construct the WWTP approved a design hydraulic capacity of 0.15 MGD. As with previous renewals, the discharge is modeled using a rate of 0.15 MGD.

Limitations for pH, Dissolved Oxygen (DO), CBOD5, Total Residual Chlorine (TRC), Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Ammonia-Nitrogen are water quality-based and carried over from the previous permit.

Monitoring/reporting requirements for Total Kjeldahl Nitrogen (TKN), Nitrate-Nitrite as N, Total Nitrogen (TN), and Total Phosphorus (TP) are carried over from the previous renewal. Monitoring frequencies for all parameters with limitations are in accordance with the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

Stream gage 1451800 (Jordan Creek near Schnecksville, PA) was used as a reference gage to develop the low flow yield (LFY) used to model the discharge. RMI values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	August 19, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	8-26-24

Summary of Review

Neither WQM 7.0 nor the TRC Calculation Spreadsheet recommended more stringent limitations for the 0.15 MGD discharge. The Toxics Management Spreadsheet recommended monitoring/reporting for Total Copper at 0.15 MGD, but not at 0.04 MGD. Monitoring/reporting requirements for Total Copper are not included in the permit for this renewal. Annual monitoring/reporting for E. Coli is added to the permit as per current guidance.

Sludge use and disposal description and location(s): The permit renewal application states 5.008 dry tons of sludge was hauled to Lehigh County Authority Pretreatment in Trexlertown, PA in the previous year by Henry Yeska & Son Septic Service.

The existing permit expired on April 30, 2024 and the application for renewal was received on time. There are no open violations for this client that warrant withholding issuance of this permit. There is no DRBC docket for this facility.



WQM
Modeling.pdf



TRC Calculation.pdf



TMS PA0062880
0.04 MGD.pdf



TMS PA0062880
0.15 MGD.pdf



Watershed
Information.pdf

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.	<u>001</u>	Design Flow (MGD)	<u>0.15</u>
Latitude	<u>40° 38' 5"</u>	Longitude	<u>-75° 36' 47"</u>
Quad Name	<u>Cementon</u>	Quad Code	<u>1341</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Jordan Creek (TSF, MF)</u>	Stream Code	<u>3424</u>
NHD Com ID	<u>26300153</u>	RMI	<u>14.0</u>
Drainage Area	<u>55.5 mi²</u>	Yield (cfs/mi ²)	<u>0.0415</u>
Q ₇₋₁₀ Flow (cfs)	<u>2.3</u>	Q ₇₋₁₀ Basis	<u>Gage 01451800</u>
Elevation (ft)	<u>357</u>	Slope (ft/ft)	<u>0.0017</u>
Watershed No.	<u>2-C</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>-</u>	Name	<u>-</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>-</u>		<u>-</u>
Temperature (°F)	<u>-</u>		<u>-</u>
Hardness (mg/L)	<u>-</u>		<u>-</u>
Other:	<u>-</u>		<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>Bucks County Water & Sewer Authority</u>		
PWS Waters	<u>Delaware River</u>	Flow at Intake (cfs)	<u>268</u>
PWS RMI	<u>73.3</u>	Distance from Outfall (mi)	<u>~65.5</u>

Treatment Facility Summary				
Treatment Facility Name: KidsPeace Orchard Hills Campus WWTP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Tablet Chlorination	0.02 (2023)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.15 (0.04 installed)	83.4	Not Overloaded	Holding Tank	Hauled

Development of Effluent Limitations

Outfall No. 001
Latitude 40° 38' 5"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.15
Longitude -75° 36' 47"

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:


Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	50	IMAX	-	-
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60	IMAX	-	-
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
	1.6	IMAX	-	-

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Ammonia-Nitrogen May 1 - Oct 31	15.0	Average Monthly	Previous Modeling
	24.0	IMAX	
Dissolved Oxygen	5.0	Minimum	Previous Modeling

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Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	August 19, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	8-26-24