

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

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0095036  
 APS ID 1012585  
 Authorization ID 1307571

**Applicant and Facility Information**

Applicant Name	<u>El Do Inc.</u>	Facility Name	<u>Smithton Truck Stop</u>
Applicant Address	<u>700 Atlantic Avenue</u> <u>Mckeesport, PA 15132</u>	Facility Address	<u>Motordrome Road</u> <u>Smithton, PA 15479</u>
Applicant Contact	<u>William Rothbauer</u>	Facility Contact	<u>Todd Rothbauer</u>
Applicant Phone	<u>(412) 670-4144</u>	Facility Phone	<u>724-872-4224</u>
Client ID	<u>63373</u>	Site ID	<u>251328</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>South Huntingdon Township</u>
Connection Status	<u>N/A</u>	County	<u>Westmoreland</u>
Date Application Received	<u>March 3, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 11, 2020</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of existing NPDES Permit.</u>		

**Summary of Review**

The above permittee has submitted an NPDES renewal application for an existing 0.03 MGD discharge to an Unnamed Tributary of the Youghiogheny River from their sewage treatment plant that serves the Smithton Truck Stop.

Sludge use and disposal description and location(s): Hapchuck Sanitation Company (septic hauler).

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.

Approve	Deny	Signatures	Date
X		<i>Chad A. Fabian</i> Chad A. Fabian / Project Manager	February 21, 2021
X		<i>Nicholas W. Hartranft, P.E.</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	February 25, 2021

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.03</u>
Latitude	<u>40° 10' 33.10"</u>	Longitude	<u>-79° 43' 52.47"</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Youghiogheny River</u>	Stream Code	<u>37856</u>
NHD Com ID	<u>69914003</u>	RMI	<u>1.8</u>
Drainage Area	<u>0.1</u>	Yield (cfs/mi <sup>2</sup> )	<u>n/a</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0</u>	Q <sub>7-10</sub> Basis	<u>Previous site inspection</u>
Elevation (ft)	<u>approximately 1000</u>	Slope (ft/ft)	<u>n/a</u>
Watershed No.	<u>19-D</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u>WWF</u>	Existing Use Qualifier	<u>n/a</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>none</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>OIL AND GREASE</u>		
Source(s) of Impairment	<u>HIGHWAY/ROAD/BRIDGE RUNOFF (NON-CONSTRUCTION RELATED)</u>		
TMDL Status	<u>Pending</u>	Name	<u>n/a</u>
Nearest Downstream Public Water Supply Intake		<u>McKeesport Municipal Water Authority</u>	

Changes Since Last Permit Issuance: None

Other Comments: The discharge is to a swale that drains to an Unnamed Tributary of the Youghiogheny River.

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Smithton Truck Stop STP				
<b>WQM Permit No.</b>	<b>Issuance Date</b>			
6584405	08/08/1984			
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Secondary with Ammonia Reduction	Extended Aeration	Gas Chlorine	0.023
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.03	<u>12.5</u>	Not Overloaded		

Changes Since Last Permit Issuance:

Other Comments: The existing treatment process consists of flow equalization, extended aeration, final clarification, Pyra Deck Tertiary Filter and chlorination.

<b>Compliance History</b>	
<b>Summary of DMRs:</b>	The facility utilizes the Department's eDMR system. In the past 12 months, the only effluent violation was an exceedance for dissolved oxygen in February of 2020. A summary of the effluent results for the past 12 months are shown in the table on the next page.
<b>Summary of Inspections:</b>	The most recent inspection was performed by the Department on 1/24/2020. The inspection noted several effluent violations for TRC in 2019 and one effluent violation for CBOD <sub>5</sub> in 2019. The inspection also noted the facility failed to submit their NPDES renewal application. There are no pending compliance actions at the facility.

**Compliance History**

DMR Data for Outfall 001 (from January 1, 2020 to December 31, 2020)

Parameter	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20
Flow (MGD) Average Monthly	0.00546 2	0.00546 2	0.00275 1	0.00546 2	0.002	0.00275	0.01057	0.01195	0.00727	0.00605 1	0.01325	0.0115
pH (S.U.) Instantaneous Minimum	7.0	6.6	6.3	6.6	7.1	7.1	7.1	6.3	6.5	6.5	6.79	6.5
pH (S.U.) Instantaneous Maximum	8.4	7.4	7.2	7.3	7.7	7.7	7.7	6.9	7.4	7.7	7.1	7.2
DO (mg/L) Instantaneous Minimum	6.4	7.0	6.5	6.0	6.1	6.1	6.1	7.2	7.5	4.0	3.5	2.6
TRC (mg/L) Average Monthly	0.3	0.31667	0.30968	0.33667	0.03	0.3	0.3	0.34	0.31	0.36451 6	0.5	1.6
TRC (mg/L) Instantaneous Maximum	0.4	0.6	0.4	0.6	0.04	0.4	0.4	0.5	0.5	0.6	0.8	2.3
CBOD5 (mg/L) Average Monthly	2.05	2.1	2.1	< 2	< 2.0	3.05	2.2	3.4	< 2	< 7.5	6.65	3.15
CBOD5 (mg/L) Instantaneous Maximum	< 2.1	2.2	2.2	< 2	< 2.0	4.1	2.4	3.4	< 2	7.5	7.17	3.22
TSS (mg/L) Average Monthly	< 5	< 5	< 5	< 5	< 5.0	6.5	< 5	< 5.0	< 5	< 8	< 5	< 5
TSS (mg/L) Instantaneous Maximum	< 5	< 5	< 5	< 5	< 5.0	8	< 5	< 5.0	< 5	8	< 5	< 5
Fecal Coliform (No./100 ml) Geometric Mean	< 1.41	< 1	< 1	< 1.414	< 1	< 1.5	< 1	< 1	< 1.5	< 1	15.87	4.1
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 2	< 1	< 1	< 2	< 1	< 2	< 1	< 1	< 2	< 1	21	6.38
Ammonia (mg/L) Average Monthly	2.95	0.3	0.55	0.1	0.1	0.2	0.3	0.7	0.3	0.4	3.645	3.0
Ammonia (mg/L) Instantaneous Maximum	3.1	0.9	0.9	0.1	0.1	0.2	0.3	0.9	0.3	0.5	5.12	3.66

**Development of Effluent Limitations**

<p><b>Outfall No.</b>     <u>001</u></p> <p><b>Latitude</b>     <u>40° 10' 17.00"</u></p> <p><b>Wastewater Description:</b> <u>Sewage Effluent</u></p>	<p><b>Design Flow (MGD)</b> <u>.03</u></p> <p><b>Longitude</b>     <u>-79° 43' 38.00"</u></p>
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**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 <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
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)
Fecal Coliform (5/1 – 9/30)	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)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: None

**Water Quality-Based Limitations**

No "Reasonable Potential Analysis" was performed for toxics since they are not expected to be present in the wastewater nor are they required to be sampled for in the renewal application.

The Department's WQM7.0 model allows the Department to evaluate point source discharges of dissolved oxygen (DO), carbonaceous BOD (CBOD<sub>5</sub>), and ammonia-nitrogen (NH<sub>3</sub>-N) into free-flowing streams and rivers. To accomplish this, the model simulates two basic processes: the mixing and degradation of NH<sub>3</sub>-N in the stream and the mixing and consumption of DO in the stream due to the degradation of CBOD<sub>5</sub> and NH<sub>3</sub>-N. WQM7.0 modeling was previously performed to determine the existing effluent limitations.

The Department's previously determined the Total Residual Chlorine Limit of 0.5 mg/l established by Chapter 92a.48(b)(2) was sufficient.

New modeling is not required, according the Department's SOP for reissuance of NPDES Permits, since there are not any changes to the receiving stream or effluent quality since the last permit issuance.

**Best Professional Judgment (BPJ) Limitations**

None

**Anti-Backsliding**

No relaxation of any existing limitation is proposed for the draft permit.

**Existing and 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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	0.03	XXX	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30	XXX	60	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	9.0	XXX	18.0	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	3.0	XXX	6.0	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab

Compliance Sampling Location: 001

Other Comments: All of the above proposed effluent limitations and monitoring frequencies are the same as the exiting permit.

It is recommended the permit be drafted as described above.