

Application Type Amendment,
Major
Wastewater Type Sewage
Facility Type SFTF

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0240061 A-1
APS ID 1126393
Authorization ID 1507688

Applicant, Facility and Project Information

<p>Applicant Name <u>Country Acres Personal Care Home, Inc.</u></p> <p>Applicant Address <u>2017 Meadville Road</u> <u>Titusville, PA 16354-7045</u></p> <p>Applicant Contact <u>Tamara Gilson, Administrator/Owner</u> <u>(countryacres@zoominternet.net)</u></p> <p>Applicant Phone <u>(814) 827-3708</u></p> <p>Client ID <u>252370</u></p> <p>SIC Code <u>4952, 8052</u></p> <p>SIC Description <u>Services - Intermediate Care Facilities,</u> <u>Trans. & Utilities - Sewerage Systems</u></p> <p>Date Application Received <u>November 25, 2024</u></p> <p>Date Application Accepted <u>November 25, 2024</u></p> <p>Project Description <u>Renewal of an NPDES Permit for an existing discharge of treated sanitary wastewater. This application also converts the facility from an Individual Sewage NPDES Permit to an SFTF Permit.</u></p>	<p>Facility Name <u>Country Acres Personal Care Home</u></p> <p>Facility Address <u>2017 Meadville Road</u> <u>Titusville, PA 16354-7045</u></p> <p>Facility Contact <u>Andrew Narlee, Certified Operator</u> <u>(andy@self-storage-buildings.com)</u></p> <p>Facility Phone <u>(724) 301-1042</u></p> <p>Site ID <u>671603</u></p> <p>Municipality <u>Cherrytree Township</u></p> <p>County <u>Venango</u></p> <p>WQM Required <u>No</u></p> <p>WQM App. No. <u>-</u></p>
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Summary of Review

Act 14 - Proof of Notification was submitted and received.

A Part II Water Quality Management permit is not required at this time.

The Permittee should be able to meet the limits of this permit, which will protect the uses of the receiving stream.

I. OTHER REQUIREMENTS:

- | | |
|--|---------------------------------|
| A. AMRs | F. Stormwater into sewers |
| B. DMRs | G. Right of way |
| C. Depth of Septage and Scum Measurement | H. Solids handling |
| D. Septic Tank Pumping | I. Public sewerage availability |
| E. Effluent Chlorine Optimization and Minimization | |

Permitted treatment consists of: A 1,704 gallon flow equalization tank with a manual bar screen, a 5,205 gallon extended aeration tank, a 706 gallon clarifier, a 1,500 gallon sludge holding tank, and tablet chlorine disinfection with a 325 gallon contact tank.

There are 13 open violations in efacts for Client ID 252370 as of 5/15/2025 (see Attachment 1).

Approve	Deny	Signatures	Date
X		Stephen A. McCauley	5/15/2025
		Stephen A. McCauley, E.I.T. / Project Manager	
X		Adam Olesnanik	5/16/2025
		Adam Olesnanik, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.002</u>
Latitude	<u>41° 36' 49.00"</u>	Longitude	<u>-79° 45' 46.00"</u>
Quad Name	<u>-</u>	Quad Code	<u>-</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to the Prather Creek (CWF)</u>	Stream Code	<u>N/A</u>
NHD Com ID	<u>127347473</u>	RMI	<u>N/A</u>
Drainage Area	<u>-</u>	Yield (cfs/mi ²)	<u>-</u>
Q ₇₋₁₀ Flow (cfs)	<u>-</u>	Q ₇₋₁₀ Basis	<u>-</u>
Elevation (ft)	<u>-</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>16-D</u>	Chapter 93 Class.	<u>CWF</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>Aqua Pennsylvania, Inc. - Emlenton</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>1,376</u>
PWS RMI	<u>90.0</u>	Distance from Outfall (mi)	<u>60</u>

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.

No modeling was performed for this NPDES Permit Amendment since eDMR data shows this facility is capable of meeting the CBOD₅ and TSS averages of 10 mg/l, which are less than the inputs of the WQ model.

The TRC limits are technology-based using the TRC_Calc Spreadsheet (see Attachment 2). These limits are the same as the previous Individual Sewage NPDES Permit.

Compliance History

DMR Data for Outfall 001 (from April 1, 2024 to March 31, 2025)

Parameter	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24
Flow (MGD) Average Monthly	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.00144	0.001	0.0144	0.001	0.0144
pH (S.U.) Daily Minimum	7.1	7.1	7.1	7.1	7.1	6.9	7.2	7.1	7.1	7.2	7.5	7.4
pH (S.U.) Daily Maximum	7.3	7.2	7.2	7.2	7.3	7.2	7.3	7.6	7.3	7.6	7.7	7.8
DO (mg/L) Instantaneous Minimum	7.5	7.0	6.0	6.0	6.0	6.0	7.0	6.0	6.0	7.0	6.0	5.0
TRC (mg/L) Average Monthly	0.25	0.3	0.04	0.2	0.15	0.3	0.3	0.38	0.29	0.342	0.308	0.33
CBOD5 (mg/L) Average Monthly	< 3.0	< 3.0	< 3.0	< 3.0	< 0.3	< 3.2	< 3.0	< 3.0	< 3.0	< 4.8	< 4.8	8.95
TSS (mg/L) Average Monthly	< 6.0	6.75	5.25	6.75	7.5	< 5.0	< 5.5	7.5	26.25	27.5	8.5	8.25
Fecal Coliform (No./100 ml) Geometric Mean	< 1	< 1	< 1	< 1	< 1	1.4	< 1	< 1.7	< 1	< 1	1	< 1
E. Coli (No./100 ml) Instantaneous Maximum				< 1								
Total Nitrogen (mg/L) Daily Maximum				< 29.97								
Ammonia (mg/L) Average Monthly	< 0.3	< 0.3	< 0.3	< 0.345	< 0.30	< 0.3	< 0.3	< 0.3	< 0.3	0.7	0.485	< 0.3
Total Phosphorus (mg/L) Daily Maximum				6.71								

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	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

Compliance Sampling Location: at Outfall 001, after disinfection.

Flow is monitor only based on Chapter 92a.61. The limits for pH are technology-based on Chapter 93.7. The limits for Total Residual Chlorine (TRC) are technology based on Chapter 92a.47. The limits for BOD5, Total Suspended Solids, and Fecal Coliform are technology based on the Department's Small Flow Treatment Facilities (SFTF) Manual.

Attachment 1



WATER MANAGEMENT SYSTEM
OPEN VIOLATIONS BY CLIENT

Client ID: 252370
Client: All

Open Violations: 13

	CLIENT ID	CLIENT	PF ID	FACILITY	PF KIND	PF STATUS	INSP PROGRAM	PROGRAM SPECIFIC ID
1	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
2	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
3	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
4	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
5	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
6	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
7	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
8	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
9	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
10	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
11	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
12	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045
13	252370	COUNTRY ACRES PERSONAL CARE HOME INC	688966	COUNTRY ACRES PERSONAL CARE	Community	Active	Safe Drinking Water	6610045

	INSP ID	VIOLATION ID	INSPECTION CATEGORY	VIOLATION DATE	VIOLATION CODE	VIOLATION	PF INSPECTOR	INSP REGION
1	3719623	8177323	PF	02/27/2024	C2F	FAILURE TO SAMPLE AT APPROPRIATE LOCATIONS OR FOLLOW SAMPLE COLLECTION PROTOCOLS	VALESKY, RICHARD	NWRO
2	3719623	8177324	PF	02/27/2024	B6A	OTHER VIOLATIONS DEEMED TO BE SIGNIFICANT DEFICIENCIES	VALESKY, RICHARD	NWRO
3	3719623	8177325	PF	02/27/2024	C1F	CROSS-CONNECTIONS EXIST WITHOUT PROPER BACKFLOW PROTECTION	VALESKY, RICHARD	NWRO
4	3719623	8177326	PF	02/27/2024	C7	FAILURE TO COMPLY WITH A PERMIT CONDITION	VALESKY, RICHARD	NWRO
5	3719623	8177327	PF	02/27/2024	C1F	CROSS-CONNECTIONS EXIST WITHOUT PROPER BACKFLOW PROTECTION	VALESKY, RICHARD	NWRO
6	3719623	8177328	PF	02/27/2024	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	VALESKY, RICHARD	NWRO
7	3719623	8177329	PF	02/27/2024	D2G	FAILURE TO SUBMIT OR REVISE A COMPREHENSIVE MONITORING PLAN	VALESKY, RICHARD	NWRO
8	3719623	8177330	PF	02/27/2024	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	VALESKY, RICHARD	NWRO
9	3719623	8177331	PF	02/27/2024	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	VALESKY, RICHARD	NWRO
10	3719623	8177332	PF	02/27/2024	D2I	FAILURE TO COMPLY WITH UNINTERRUPTED SYSTEM SERVICE PLAN REQUIREMENTS	VALESKY, RICHARD	NWRO
11	3719623	8177333	PF	02/27/2024	C1F	CROSS-CONNECTIONS EXIST WITHOUT PROPER BACKFLOW PROTECTION	VALESKY, RICHARD	NWRO
12	3719623	8177334	PF	02/27/2024	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	VALESKY, RICHARD	NWRO
13	3719623	8177335	PF	02/27/2024	C9	EXCEEDANCE OF A SECONDARY MCL	VALESKY, RICHARD	NWRO

Attachment 2

TRC EVALUATION					
Input appropriate values in A3:A9 and D3:D9					
0.025	= Q stream (cfs)	0.5	= CV Daily		
0.002	= Q discharge (MGD)	0.5	= CV Hourly		
30	= no. samples	1	= AFC_Partial Mix Factor		
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor		
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)		
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)		
0	= % Factor of Safety (FOS)	0	= Decay Coefficient (K)		
Source	Reference	AFC Calculations		Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 2.597		1.3.2.iii	WLA cfc = 2.524
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373		5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.968		5.1d	LTA_cfc = 1.467
Source	Effluent Limit Calculations				
PENTOXSD TRG	5.1f	AML MULT = 1.231			
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500		BAT/BPJ	
		INST MAX LIMIT (mg/l) = 1.635			
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">WLA afc</div> <div style="width: 85%;"> $(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))... \\ ...+Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)$ </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">LTAMULT afc</div> <div style="width: 85%;"> $EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)$ </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">LTA_afc</div> <div style="width: 85%;"> $wla_afc*LTAMULT_afc$ </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 15%;">WLA_cfc</div> <div style="width: 85%;"> $(.011/e(-k*CFC_tc)) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))... \\ ...+Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)$ </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">LTAMULT_cfc</div> <div style="width: 85%;"> $EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)$ </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">LTA_cfc</div> <div style="width: 85%;"> $wla_cfc*LTAMULT_cfc$ </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 15%;">AML MULT</div> <div style="width: 85%;"> $EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))$ </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">AVG MON LIMIT</div> <div style="width: 85%;"> $MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)$ </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">INST MAX LIMIT</div> <div style="width: 85%;"> $1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)$ </div> </div>					