

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

| | | | | | |
|---------------------------|--|--|------------------|--|--|
| Applicant Name | <u>Country Acres Personal Care Home, Inc.</u> | | Facility Name | <u>Country Acres Personal Care Home</u> | |
| Applicant Address | <u>2017 Meadville Road</u> <u>Titusville, PA 16354-7045</u> | | Facility Address | <u>2017 Meadville Road</u> <u>Titusville, PA 16354-7045</u> | |
| Applicant Contact | <u>Tamara Gilson, Administrator/Owner</u> <u>(countryacres@zoominternet.net)</u> | | Facility Contact | <u>Andrew Narlee, Certified Operator</u> <u>(andy@self-storage-buildings.com)</u> | |
| Applicant Phone | <u>(814) 827-3708</u> | | Facility Phone | <u>(724) 301-1042</u> | |
| Client ID | <u>252370</u> | | Site ID | <u>671603</u> | |
| SIC Code | <u>4952, 8052</u> | | Municipality | <u>Cherrytree Township</u> | |
| SIC Description | <u>Services - Intermediate Care Facilities, Trans. & Utilities - Sewerage Systems</u> | | County | <u>Venango</u> | |
| Date Application Received | <u>November 25, 2024</u> | | WQM Required | <u>No</u> | |
| Date Application Accepted | <u>November 25, 2024</u> | | WQM App. No. | <u>-</u> | |
| Project Description | 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. | | | | |

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, (WQM Permit No. 6107403) 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 Stephen A. McCauley, E.I.T. / Project Manager | 5/15/2025 |
| X | | Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager | 5/16/2025 |

| Discharge, Receiving Waters and Water Supply Information | | | |
|--|---|------------------------------|-----------------|
| Outfall No. | 001 | Design Flow (MGD) | 0.002 |
| Latitude | 41° 36' 49.00" | Longitude | -79° 45' 46.00" |
| Quad Name | - | Quad Code | - |
| Wastewater Description: | Sewage Effluent | | |
| Receiving Waters | Unnamed Tributary to the Prather Creek (CWF) | Stream Code | N/A |
| NHD Com ID | 127347473 | RMI | N/A |
| Drainage Area | - | Yield (cfs/mi ²) | - |
| Q ₇₋₁₀ Flow (cfs) | - | Q ₇₋₁₀ Basis | - |
| Elevation (ft) | - | Slope (ft/ft) | - |
| Watershed No. | 16-D | Chapter 93 Class. | CWF |
| Existing Use | - | Existing Use Qualifier | - |
| Exceptions to Use | - | Exceptions to Criteria | - |
| Assessment Status | Attaining Use(s) | | |
| Cause(s) of Impairment | - | | |
| Source(s) of Impairment | - | | |
| TMDL Status | - | Name | - |
| Background/Ambient Data | Data Source | | |
| pH (SU) | - | - | |
| 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) | 60 |

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



Client ID: 252370
Client: All

Open Violations: 13

WATER MANAGEMENT SYSTEM
OPEN VIOLATIONS BY CLIENT

| | 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 | | | | | |
| 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 |
| 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 | | | |
| WLA_afc | | $(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))...\\ ...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)$ | | | |
| LTAMULT_afc | | $\text{EXP}((0.5*\text{LN}(cvh^2+1))-2.326*\text{LN}(cvh^2+1)^0.5)$ | | | |
| LTA_afc | | wla_afc*LTAMULT_afc | | | |
| WLA_cfc | | $(.011/e(-k*CFC_tc)) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))...\\ ...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)$ | | | |
| LTAMULT_cfc | | $\text{EXP}((0.5*\text{LN}(cvd^2/no_samples+1))-2.326*\text{LN}(cvd^2/no_samples+1)^0.5)$ | | | |
| LTA_cfc | | wla_cfc*LTAMULT_cfc | | | |
| AML MULT | | $\text{EXP}(2.326*\text{LN}((cvd^2/no_samples+1)^0.5)-0.5*\text{LN}(cvd^2/no_samples+1))$ | | | |
| AVG MON LIMIT | | MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT) | | | |
| INST MAX LIMIT | | 1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc) | | | |