

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SFTF/SRSTP**

Application No. PA0284777  
APS ID 1053977  
Authorization ID 1380290

**Applicant, Facility and Project Information**

Applicant Name	<u>Michael E Hallam</u>	Facility Name	<u>Hallam Property STP</u>
Applicant Address	<u>225 Tate Road</u> <u>Hookstown, PA 15050-1237</u>	Facility Address	<u>130 Paradise Road</u> <u>Hookstown, PA 15052</u>
Applicant Contact	<u>Michael Hallam</u>	Facility Contact	<u>Same as Applicant</u>
Applicant Phone	<u>(412) 855-1901</u>	Facility Phone	<u>Same as Applicant</u>
Client ID	<u>334166</u>	Site ID	<u>854055</u>
SIC Code	<u>8800</u>	Municipality	<u>Aliquippa City</u>
SIC Description	<u>Private Households</u>	County	<u>Beaver</u>
Date Application Received	<u>December 29, 2021</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>December 29, 2021</u>	WQM App. No.	<u>0421409</u>
Project Description	<u>Application for a new NPDES permit authorize a discharge of a treated Sewage.</u>		

**Summary of Review**

The applicant proposes to construct a 400 GPD single residence sewage treatment plant to replace a malfunctioning on-lot system at an existing single residence home of 3 bedrooms (1 EDU) in Industry Borough, Beaver County.



WQM Permit 0421409 will be issued concurrently with this NPDES Permit. The discharge is to Tributary 33531 of Wolf Run, which is classified as at WWF located in State Watershed 20-C.

The Site Plan (attached to the application) and the zoom in section on the plan shows an average of 50 feet of 3 in schedule 40 pipe that will deliver the effluent to the point of discharge (Manhole), which is located on the applicant property and eventually discharges to Tributary 33531.

The treatment plant that will be constructed on site (see page 8) consists of a Premier Tech EC7-500-C-P PACK, which contains a concrete integrated septic tank, coco filter, DiUV disinfection unit of 600 GPD and effluent pump. The Premier Tech treatment unit has a rated capacity of 400 GPD and is NSF Certified for the treatment of Residential Wastewater.

Checking on the effluent pump specs and operation, the CPEH5 pump will generate a 65 inch of head that can travel a 100 ft max. using a 1 1/2 Ø pipe. The pipe diameter listed on the Site plan is 3 inches which should deliver the produced head to the discharge point about 50 ft distance (see page 9)

The grade of ¼ inch per 1foot listed on the Site Plan would be applicable to the discharge pipe to ensure gravity for the pumped effluent.

Approve	Deny	Signatures	Date
X		 Hazim Aldalli / Environmental Engineering Specialist	May 06, 2022
x		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineering Manager	May 06, 2022

**Summary of Review**

Sampling should be grabbed after disinfection. Sampling point is prescribed under -F- on page 2 of the Owner's Manual (see page 12 of the WQM application).

Current policy does not require eDMR to be used for SRSTPs.

Act 537 Planning was approved for this project on August 12, 2021.

The Act – 14 PL 834 Municipal Notification were provided by the June 27 and July 7, 2021 letters and no comments were received.

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 and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>40° 39' 48.82"</u>	Longitude	<u>-80° 25' 4.88"</u>
Quad Name	<u>Midland</u>	Quad Code	<u>40080F4</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Tributary 33531 of Wolf Run (WWF)</u>	Stream Code	<u>33531</u>
NHD Com ID	<u>99680612</u>	RMI	<u>0.59</u>
Drainage Area	<u>0.0375</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.00376</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.000141</u>	Q <sub>7-10</sub> Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>1172</u>	Slope (ft/ft)	<u>0.0175</u>
Watershed No.	<u>20-B</u>	Chapter 93 Class.	<u>WWF</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>DUQUESNE LIGHT CO-BVPS #1</u>		
PWS Waters	<u>Ohio River</u>	Flow at Intake (cfs)	<u>5880</u>
PWS RMI	<u>4.7</u>	Distance from Outfall (mi)	<u>3.5</u>

Changes Since Last Permit Issuance: N/A

Other Comments: New Permit Issuance. Facility is not yet constructed.

Treatment Facility Summary				
Treatment Facility Name: Hallam Prop. STP				
WQM Permit No.		Issuance Date		
0421409		Processing		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Septic Tank, Sand Filter	Ultraviolet	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0004	---	Not Overloaded	Septic Tank	-----

Changes Since Last Permit Issuance: None.

**Development of Effluent Limitations**

<b>Outfall No.</b> <u>001</u>	<b>Design Flow (MGD)</b> <u>0.0004</u>
<b>Latitude</b> <u>40° 39' 48.82"</u>	<b>Longitude</b> <u>-80° 25' 4.88"</u>
<b>Wastewater Description:</b> <u>Sewage Effluent</u>	

**Technology-Based Limitations (TBELs)**

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SRSTP permits based on the requirements of DEP’s “Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application” (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

Parameter	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	10	20	Grab	1/month	1/year
TSS (mg/L)	10	20	Grab	1/month	1/year
pH*	6.0 S.U. Inst. Min.	9.0 S.U.	Grab	1/month	1/year
TRC (mg/L)	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs		Grab	1/month	1/year
Fecal Coliform (No./100 ml)	200 Geometric Mean (SFTFs) / Average (SRSTPs)		Grab	1/month	1/year

\* Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).

\*\* Use the Geometric Mean if the Sampling Frequency is at least 1/month. Use Annual Average, Semi-Annual Average or Quarterly Average if the Sampling Frequency is less than 1/month.

**Additional Considerations:**

The stream flow (Q7-10) to wastewater flow (design flow) ratio is =  $0.00007588/0.0004 = 0.19$ ; The stream flow (Q7-10) to wastewater flow (design flow) ratio is less than 3:1. The dry stream advanced treatment requirements do not apply to SRSTPs/SFTFs.

Annual average concentrations will be imposed for BOD<sub>5</sub>, Fecal, and TSS, which is consistent with the Department’s SOP – New and Reissuance Individual SFTF NPDES Permits.

BOD<sub>5</sub> limitations were imposed instead of CBOD<sub>5</sub> which reflect the most stringent limitation amongst the Technology-Based Effluent Limitations and based upon the Department’s SOP – New and Reissuance Individual SRSTP NPDES Permits, and per DEP Small Flow Treatment Facilities Manual (Dec. 2006).

Technology-based effluent limits for pH will be imposed based upon State Regulation 95.2(1).

After checking on the proposed treatment plant (Premier Tech EC7-500-C-P) technical specs, this treatment unit can achieve the stringent limits imposed since its included in the design manual, and NSF approved.

Special application for the Dry condition was set in the Engineers Report & Project Narrative document attached to the WQM application.

For SFTFs / SRSTPs with UV disinfection systems, it is not necessary to require UV intensity or transmittance monitoring in the permit.

Sewage discharges with design flows < 2,000 gpd do not require monitoring for Total Nitrogen and Total Phosphorus in new and reissued permits.

Sampling frequency for all parameters is 1/year which is consistent with the Department's SOP - New and Reissuance of SFTF Individual NPDES Permit Applications.

The applicant does not use eDMR and current policy does not require eDMR to be used for SRSTPs.

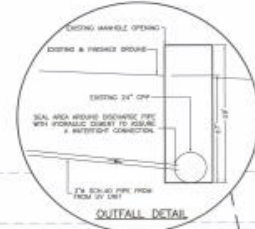
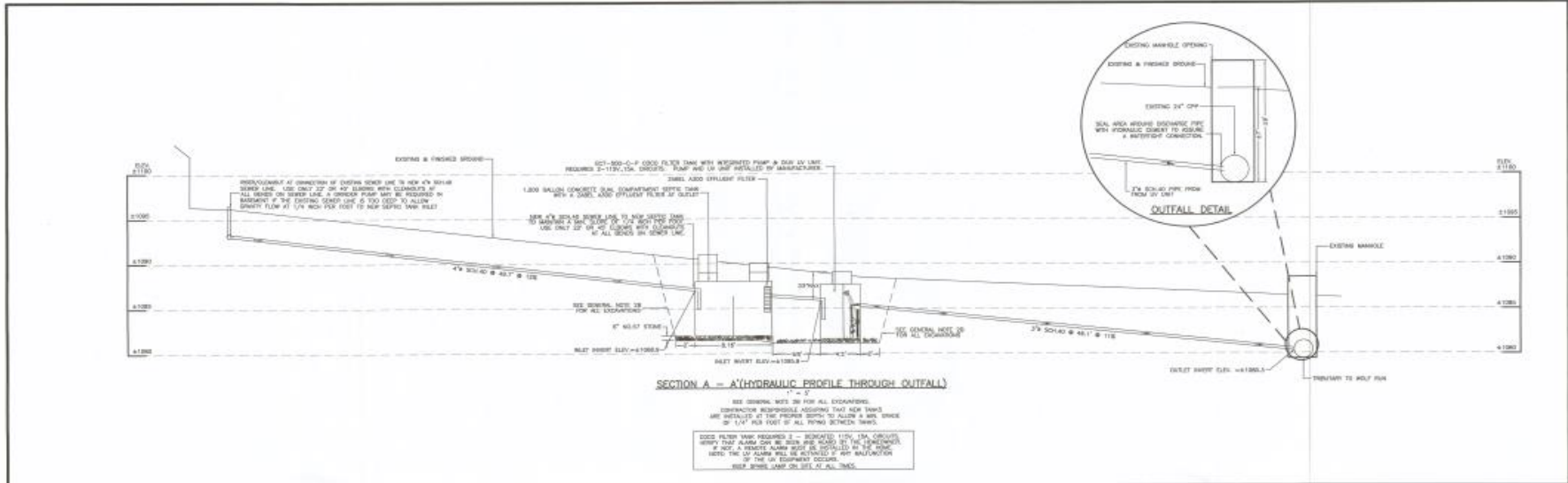
**Proposed Effluent Limitations and Monitoring Requirements**

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)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Annual Average	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst. Min	XXX	9.0 Inst. Max	XXX	1/year	Grab
BOD5	XXX	XXX	XXX	10	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	1/year	Grab

Compliance Sampling Location: Outfall 001



**DIUV Classic Kit**

1. Sampling Location

FOR DISCHARGE SAMPLING, DISCONNECT ONE LINE AT THIS LOCATION AND MANUALLY LIFT OR FLUSH

**PREMIER TECH PUMP AND LW UNIT PREINSTALLED BY MANUFACTURER**

LIST REQUIRED 2 - 1/2" x 12" x 6" UNITS

**INSTALL TANKS SUCH THAT THE EC7-500-C-P INLET IS NO DEEPER THAN 33" FROM GROUND SURFACE**

**PREMIER TECH DIUV CLASSIC KIT FOR TANK INTEGRATION PREINSTALLED BY MANUFACTURER**

**JOINING FENCE SECTIONS**

**FILTER FABRIC FENCE**

ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONTOURS AND GRADE. ALL TOPSOIL AND VEGETATION TO BE STOCKPILED AND REPLACED AFTER CONSTRUCTION OF TRENCH IS COMPLETE. ALL DISTURBED AREAS TO BE SOILED WHEN FINISHED WITH PLOW DOT FORMULA (AS SPECIFIED IN PLOW DOT FORM AND SECTION BAR) AS FOLLOWS:

FORMULA B - PERMANENT HYBRID-RED FESCUE-KENNYLUCKY BLENDINGS

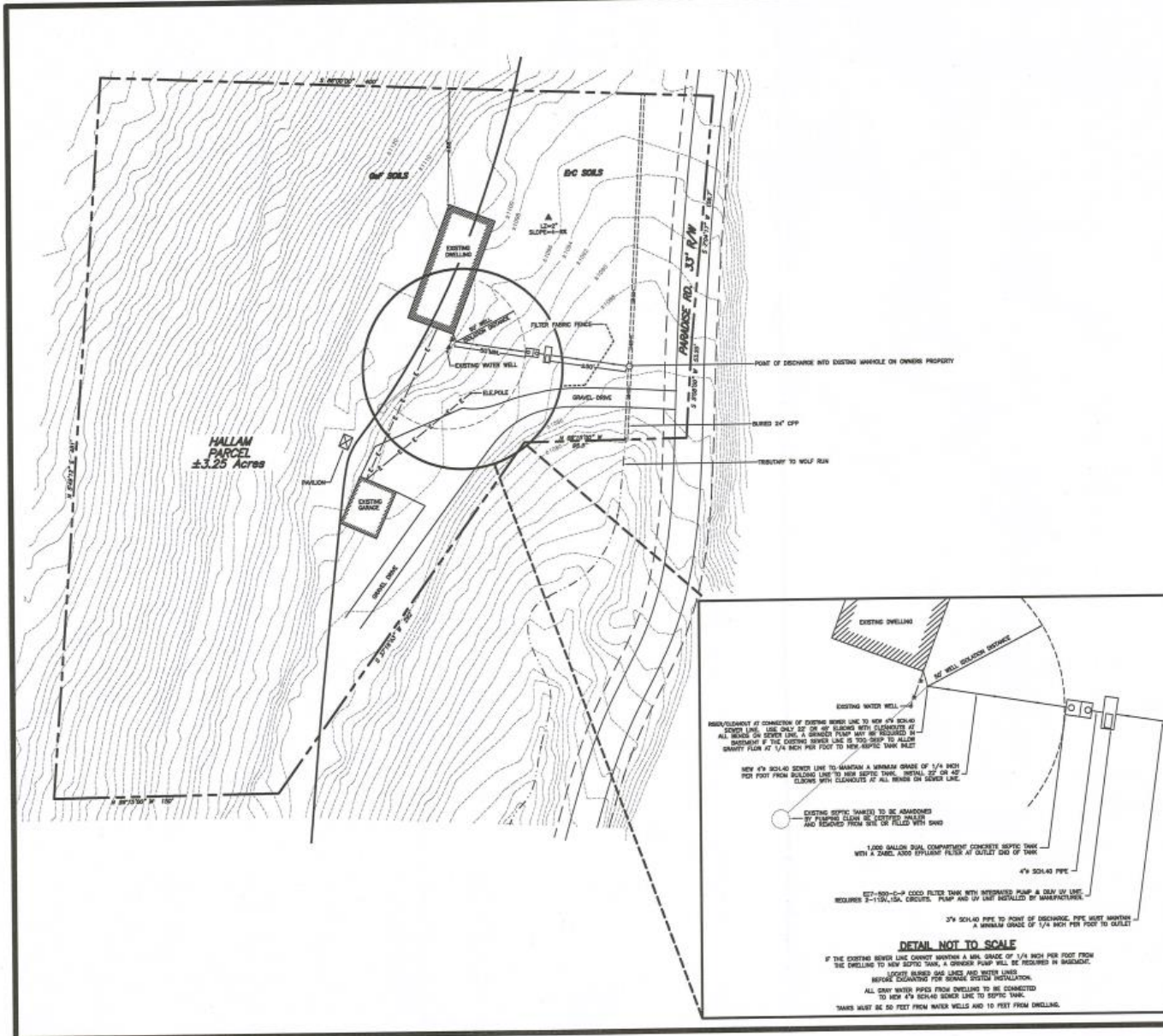
SEED RATE = 400 LBS./ACRE  
APPLICATION RATE = 100 LBS./ACRE  
REPLICATION RATE = 10-20-30  
POPULATION APPLICATION RATE = 675 LBS./ACRE  
LIME RATE = 1.54 LBS./MOE  
MULCH TYPE = STRAW  
MULCHING RATE = 2.5 TONS/ACRE  
RESEED SOARING COVER FOR PERMANENT SEEDING = 3/15 / 4/1 / 6/1 / 10/30

RESTORATION: RESEED AND RE-MULCH ALL AREAS THAT CRACK OR WASH OUT DUE TO ANY AND ALL PANS OR STORM EVENTS. FOLLOW WORKSHEET #77 FOR SEEDING AND MULCH APPLICATIONS.

FILTER FABRIC FENCE MUST BE INSTALLED AT EXISTING LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST BE EXTENDED AT LEAST 6 FEET UP-SLOPE AT 40 DEGREES TO THE MAIN FENCE SEGMENT AND AS REQUIRED WHERE ACCUMULATIONS REACH 1/2" THE ABOVE GROUND HEIGHT OF THE FENCE. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A NEW FENCE OUTLET.

<p><b>NOTE (ALSO SEE GENERAL NOTES ON DWG. 1 OF 2)</b></p> <p>SEWER TANKS SHALL BE 10' DIAMETER TANKS OR LARGER AS REQUIRED TO ACCOMMODATE ALL OF THE DISCHARGES TO BE RECEIVED AT THIS LOCATION. IF A TANK IS NOT PRE-INSTALLED BY THE MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND INSTALLATION OF THE TANK AND ALL ASSOCIATED PIPING AND CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL HEALTH DEPARTMENT AND ANY OTHER AGENCIES THAT MAY BE INVOLVED IN THE CONSTRUCTION OF THE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL HEALTH DEPARTMENT AND ANY OTHER AGENCIES THAT MAY BE INVOLVED IN THE CONSTRUCTION OF THE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL HEALTH DEPARTMENT AND ANY OTHER AGENCIES THAT MAY BE INVOLVED IN THE CONSTRUCTION OF THE SYSTEM.</p>	<p>THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR NOTIFYING SPECIFICATIONS AND SUBMITTALS AS STATED IN THE GENERAL NOTES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND INSTALLATION OF THE TANK AND ALL ASSOCIATED PIPING AND CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL HEALTH DEPARTMENT AND ANY OTHER AGENCIES THAT MAY BE INVOLVED IN THE CONSTRUCTION OF THE SYSTEM.</p>	<p><b>CALL BEFORE YOU DIG!</b></p> <p>PROVIDE A COPY OF THIS DRAWING TO ALL UTILITIES AND CONTRACTORS BEFORE ANY EXCAVATION OR DRILLING WORK BEGINS.</p> <p><b>PA 1</b></p> <p>1-800-242-1776</p>	<p><b>DESCRIPTION</b></p> <p>HALLAM PROPERTY INDUSTRY BOROUGH BEAVER CO. SINGLE RESIDENCE SEWAGE TREATMENT PLANT SYSTEM DETAILS.</p>	<p>DATE: 1/20/2018</p> <p>SCALE: AS SHOWN</p> <p>SHEET NO: 2 OF 2</p>
			<p>DATE: 1/20/2018</p> <p>SCALE: AS SHOWN</p> <p>SHEET NO: 2 OF 2</p>	
			<p>DATE: 1/20/2018</p> <p>SCALE: AS SHOWN</p> <p>SHEET NO: 2 OF 2</p>	





THE PROPERTY OWNER AND DEVELOPER BY ACCEPTING AND/OR CONSTRUCTING THIS SYSTEM INDEMNIFY AND HOLD HARMLESS ADVANCED TREATMENT, INC. FROM ANY LIABILITY RESULTING FROM ACTIVITIES COVERED BY INSTALLATION AND OPERATION OF THIS SYSTEM. ANY ADDITIONAL MODIFICATIONS OR ADDITIONAL EQUIPMENT THAT MAY BE NEEDED IS THE RESPONSIBILITY OF THE OWNER OF THE SYSTEM.

**GENERAL NOTES**

1. ALL COMPONENTS INSTALLED IN ACCORDANCE WITH THE PERMIT PLAN SHALL BE INSTALLED IN ACCORDANCE WITH THE PERMIT PLAN AND THE PERMIT PLAN SHALL BE CONSIDERED THE FINAL DESIGN.
2. REFER TO THE FOLLOWING CODES, REGULATIONS AND SPECIFICATIONS:
  - A. ALL STATE AND FEDERAL REGULATIONS
  - B. ALL LOCAL ORDINANCES
  - C. ALL APPLICABLE PERMITS
  - D. ALL APPLICABLE STANDARDS AND SPECIFICATIONS
3. REFER TO THE FOLLOWING CODES, REGULATIONS AND SPECIFICATIONS:
  - A. ALL STATE AND FEDERAL REGULATIONS
  - B. ALL LOCAL ORDINANCES
  - C. ALL APPLICABLE PERMITS
  - D. ALL APPLICABLE STANDARDS AND SPECIFICATIONS
4. WATER SUPPLY LINE UNDER PRESSURE MUST BE 10 FEET (INCLUDING BUILDING SETBACKS) FROM ALL COMPONENTS OF THE SYSTEM.
5. NO BOTTOM OF THE ABOVEGROUND AREA CAN BE WITHIN 10 FEET OF PROPERTY LINES, EASEMENTS OR FRONT-OF-YARD.
6. ALL NEW LINES SHALL BE 10 FEET FROM ALL UTILITIES.
7. INSTALLATION OF ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND SPECIFICATIONS.
8. PROPERTY LINES, IF SHOWN, WERE PROVIDED BY THE PROPERTY OWNER AND ARE SHOWN HERE FOR REFERENCE ONLY. THE OWNER AND INSTALLER ARE RESPONSIBLE FOR VERIFYING ANY SHOWN PROPERTY LINES AND OFFSETS.
9. TO MINIMIZE SOIL EROSION, THE INSTALLER SHALL STAKE THE TOPSOIL FROM THE EXISTING DRIVE SERVICE WATER AROUND THE SITE AND REGRADE AND RESEED LANS A PAINT THE SITE AS SOON AS CONSTRUCTION IS COMPLETE.
10. TO ASSURE ALL WATERS ARE BEING STORED IN BELOW GROUND TANKS, THE INSTALLER SHALL VERIFY THE LOCATION OF ALL WATER SUPPLY LINES AND SERVICE LINES TO THE TANKS.
11. REFER TO CONSTRUCTION NOTES AND OTHER CONDITIONS FOR MATERIALS.
12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD AND SHALL ADVISE THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, OMISSIONS, ERRORS OR ALTERATIONS OF ANY KIND BEFORE PROCEEDING WITH ANY PART OF THE WORK.
13. OWNER RESPONSIBLE FOR VERIFYING SCHEDULE BEFORE CONSTRUCTION BEGINS TO AVOID ANY DELAYS OR COSTS THAT MAY BE INCURRED BY THE OWNER.
14. ALL WATERS SHALL HAVE LOCKDOWN ACCESS DEVICES TO AND LOCATED AT THE SERVICE TANK TO HAVE HIGH WATER ALARM BELL TO BE INSTALLED AT THE SERVICE TANK AND SERVICE TANKS SHALL BE INSTALLED AT THE SERVICE TANKS. IT IS THE PROPERTY OWNER'S RESPONSIBILITY TO VERIFY THAT ALL COMPONENTS OF THE SYSTEM ARE SHOWN ON THIS DRAWING AND LOCATED ON THE PROPERTY. DIMENSIONS ARE TO BE USED AS REFERENCE POINTS ONLY.
15. SITE CLEARING SHALL BE PROVIDED AT MINIMUM OF 10 FEET FROM ALL EXISTING UTILITIES AND EXISTING STRUCTURES AND SHALL BE INSTALLED AT ALL SERVICE TANKS. ALL CLEARINGS SHALL BE PROVIDED WITHIN 10 FEET OF ALL SERVICE TANKS. ALL CLEARINGS SHALL BE MADE WITHIN 10 FEET OF ALL SERVICE TANKS. ALL CLEARINGS SHALL BE MADE WITHIN 10 FEET OF ALL SERVICE TANKS.
16. ALL NEW WATERS AND SERVICE LINES FROM DWELLINGS MUST BE CONNECTED AND DIRECTED TO THE NEW TANKS.
17. A CLEARCUT MUST BE LOCATED AT THE JUNCTION OF THE BUILDING DRAIN AND SERVICE LINE. THE INSTALLER CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND EXISTING STRUCTURES. THE GRADE OF THE 10 FEET OF BUILDING DRAIN MUST BE MAINTAINED. THE SERVICE TANK MUST BE INSTALLED TO MAINTAIN A MINIMUM GRADE OF 1/4 INCH PER FOOT. THE PROPERTY OWNER IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND EXISTING STRUCTURES. THE GRADE OF THE 10 FEET OF BUILDING DRAIN MUST BE MAINTAINED. THE SERVICE TANK MUST BE INSTALLED TO MAINTAIN A MINIMUM GRADE OF 1/4 INCH PER FOOT.
18. THE PROPERTY OWNER AND DEVELOPER BY ACCEPTING AND/OR CONSTRUCTING THIS SYSTEM INDEMNIFY AND HOLD HARMLESS ADVANCED TREATMENT, INC. FROM ANY LIABILITY RESULTING FROM ACTIVITIES COVERED BY INSTALLATION AND OPERATION OF THIS SYSTEM. ANY ADDITIONAL MODIFICATIONS OR ADDITIONAL EQUIPMENT THAT MAY BE NEEDED IS THE RESPONSIBILITY OF THE OWNER OF THE SYSTEM.
19. PRIVATE WATER WELLS SERVING THIS AND ADJACENT DWELLINGS SHALL BE ABANDONED IF ANY SERVICE WELLS HAVE THE SERVICE PROVIDED AND CANCELED IF SERVICE IS NOT PROVIDED WITHIN 30 DAYS OF THE SERVICE PROVIDED AND CANCELED IF SERVICE IS NOT PROVIDED WITHIN 30 DAYS OF THE SERVICE PROVIDED AND CANCELED IF SERVICE IS NOT PROVIDED WITHIN 30 DAYS OF THE SERVICE PROVIDED.

**Component 3B**

- 1) Not all shown. See 800 report in Planning Module.
- 2) Outdoor lines shown as 7.5 min. mapping in Planning Module.
- 3) All other lines are shown. See Planning Module for "As-Proposed" lines.
- 4) Existing drainage shown.
- 5) Lot lines and lot area shown on this drawing.
- 6) There is a right-of-way for Paradise Road.
- 7) Private water wells shown on this and adjacent drawings.
- 8) Existing structures shown.
- 9) There are no surface waters on the property or shown.
- 10) There are no hydro wells on the lot. The one shown is a hydro well. These are not shown on this drawing and will be retained in original site conditions.
- 11) There are no flood plains on property or shown on this drawing.
- 12) There are no encroachments shown or shown adjacent to this or adjacent lots.
- 13) There are no encroachments shown or shown adjacent to this or adjacent lots.
- 14) There is no existing sewage to be installed.
- 15) There is no existing fire hydrant system on this lot. It is not known where adjacent lots have their systems.
- 16) There are no existing utility poles on this lot. The cross of disturbance is a hydro well. Any disturbed area will be restored to original conditions.
- 17) Orientation to north is shown.
- ▲ = 100 FT PER DIG BY SED & SOIL SCIENTIST

**CALL BEFORE YOU DIG!**

PENNSYLVANIA LAW ENFORCEMENT  
3 BOROUGHS DISTRICTS FOR  
CONSTRUCTION PLANS AND TO WORKING  
BAYLOR BROTHERS HALL-STATE COLLEGE

**PA 1**  
SYSTEMS, INC.  
1-800-242-1776

DESCRIPTION	ISSUED	DATE	SCALE
HALLAM PROPERTY INDUSTRY BOROUGH, BEAVER CO.	ISSUED	AUG 2018	NOT TO SCALE
<b>SITE PLAN</b>			
ADVANCED TREATMENT, INC.	DWG NO.	1 OF 1	

## StreamStats Report

Region ID: PA  
 Workspace ID: PA20220321172015960000  
 Clicked Point (Latitude, Longitude): 40.66320, -80.41810  
 Time: 2022-03-21 13:20:40 -0400



### Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0375	square miles
ELEV	Mean Basin Elevation	1172	feet

### Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0375	square miles	2.26	1400
ELEV	Mean Basin Elevation	1172	feet	1050	2580

### Low-Flow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

### Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.000654	ft <sup>3</sup> /s

Statistic	Value	Unit
30 Day 2 Year Low Flow	0.00147	ft <sup>3</sup> /s
7 Day 10 Year Low Flow	0.000141	ft <sup>3</sup> /s
30 Day 10 Year Low Flow	0.000387	ft <sup>3</sup> /s
90 Day 10 Year Low Flow	0.000923	ft <sup>3</sup> /s

*Low-Flow Statistics Citations*

**Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

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Application Version: 4.7.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2