3850-FM-BCW0356 Rev. 5/2016

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code No.

RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE (SUPERVISORS) (COMMISSIONERS) (COUNCILMEN) of Halfmoon (TOWNSHIP) (BOROUGH) (CITY), Centre COUNTY, PENNSYLVANIA (hereinafter "the municipality").

WHEREAS Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the *Pennsylvania Sewage Facilities Act*, as Amended, and the rules and Regulations of the Pennsylvania Department of Environmental Protection (DEP) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to determine whether a proposed method of sewage disposal for a new land development conforms to a comprehensive program of pollution control and water quality management, and

WHEREAS Mark Maloney (land developer) has proposed the development of a parcel of land identified as Replot of Parcels 17-2-4 & 17-2-4A (name of subdivision), and described in the attached Sewage Facilities Planning Module, and proposes that such subdivision be served by: (check all that apply), ☐ sewer tap-ins, ☐ sewer extension, ☐ new treatment facility, ☒ individual onlot systems, ☐ community onlot systems, ☐ spray irrigation, ☐ retaining tanks, ☐ other, (please specify). _____

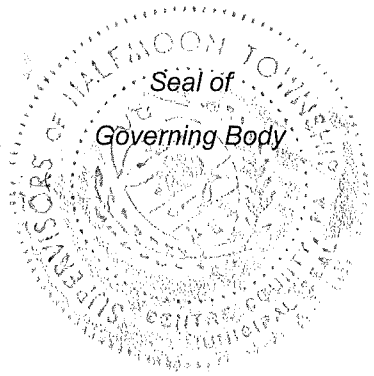
WHEREAS, Halfmoon Township (municipality) finds that the subdivision described in the attached Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the (Supervisors) (Commissioners) (Councilmen) of the (Township) (Borough) (City) of Halfmoon hereby adopt and submit to DEP for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

I _____ (Signature), Secretary, Halfmoon Township Board of Supervisors (Borough Council) (City Councilmen), hereby certify that the foregoing is a true copy of the Township (Borough) (City) Resolution # 2023-08, adopted, January 26, 2023.

Municipal Address:

Halfmoon Township
100 Municipal Lane
Port Matilda, PA 16870
Telephone 814-692-9800



3800-FM-BPNPSM0352 7/2012

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

Code No.

SEWAGE FACILITIES PLANNING MODULE

Component 2. Individual and Community Onlot Disposal of Sewage

(Return completed module package to appropriate municipality)

DEP USE ONLY				
DEP CODE #	CLIENT ID #	SITE ID #	APS ID #	AUTH ID #

This planning module component is used to fulfill the planning requirements of Act 537 for the following types of projects: (1) proposing the use of individual onlot sewage disposal systems (including individual residential spray irrigation systems (IRSIS)) and except for those projects qualifying for the "exception to the requirement to revise the Official Plan" under Chapter 71, Section 71.55, (2) proposing retaining tanks (including holding tanks, privies, chemical, incinerating, recycling or composting toilets), (3) proposing municipal permitted community onlot sewage disposal systems, and (4) proposing DEP permitted individual or community large volume onlot sewage disposal systems.

This component, along with any other documents specified in the cover letter, must be submitted to the municipality with jurisdiction over the project site for review and approval. All appropriate documentation must be attached for the Sewage Facilities Planning Module package to be complete. Refer to the instructions for help in completing this component.

REVIEW FEES: Amendments to the Sewage Facilities Act established fees to be paid by the applicant for review of planning modules for land development. These fees may vary depending on the approving agency for the project (DEP or delegated local agency). Please see Section R and the instructions for more information on these fees.

NOTE: All projects must complete Sections A through I and Sections N through R. Complete Sections J, K, L and/or M if indicated ☒. The municipality should complete Section Q if marginal conditions are present and/or if a waiver of the planning requirements is requested for the residual tract and/or if assurance of long term O & M option is required.

A. PROJECT INFORMATION (See Section A of instructions)

1. Project Name Replot of Parcels 17-2-4 and 17-2-4A

2. Brief Project Description Replot of 2 existing parcels to consolidate lands on the southern side of SR0550 into a single parcel.

B. CLIENT (MUNICIPALITY) INFORMATION (See Section B of instructions)

Municipality Name	County	City	Boro	Twp
Halfmoon Township	Centre	☐	☐	☒

Municipality Contact Individual – Last Name	First Name	MI	Suffix	Title
Smith	Amy			Clerk/Secretary
Additional Individual Last Name	First Name	MI	Suffix	Title

Municipality Mailing Address Line 1	Mailing Address Line 2
100 Municipal Lane	

Address Last Line – City	State	ZIP+4
Port Matilda	PA	16870

Phone + Ext.	FAX (optional)	Email (optional)
814-692-9800		townshipclerk@halfmoontwp.us

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

Replot of Parcels 17-2-4 and 17-2-4A

Site Location Line 1	Site Location Line 2
1145 Halfmoon Valley Road	

Site Location Last Line – City	State	ZIP+4	Latitude	Longitude
Port Matilda	PA	16870	40.812419	77.993919

Detailed Written Directions to Site from State College: 322 W, Left on Buffalo Run Road (Route 550), 1.6 miles on the right and left.

Description of Site Agricultural use with accesory use of single family residence.

Site Contact (Developer/Owner)

Last Name	First Name	MI	Suffix	Phone	Ext.
Maloney	Mark			(814) 237-8987	

Site Contact Title	Site Contact Firm (if none, leave blank)
Owner	Green Acres One LLC and Half Moon Acres LLC
FAX	Email
	mark@mcmmanagementgroup.com

Mailing Address Line 1	Mailing Address Line 2
193 Eagle Field Road	

Mailing Address Last Line – City	State	ZIP+4
Port Matilda	PA	16870

D. PROJECT CONSULTANT INFORMATION (See Section D of instructions)

Last Name	First Name	MI	Suffix
Kirsch	Steve		

Title	Consulting Firm Name
Team Leader	Herbert, Rowland, and Grubic

Mailing Address Line 1	Mailing Address Line 2
2568 Park Center Blvd	

Address Last Line – City	State	ZIP+4	Country
State College	PA	16801	USA

Email	Phone	Ext.	FAX
skirsch@hrg-inc.com	814-238-7117		

E. AVAILABILITY OF DRINKING WATER SUPPLY

The project will be provided with drinking water from the following source: (Check appropriate box)

- ☒ Individual wells or cisterns.
- ☐ A proposed public water supply.
- ☐ An existing public water supply.

If existing public water supply is to be used, provide the name of the water company and attach documentation from the water company stating that it will serve the project.

Name of water company: _____

F. PROJECT NARRATIVE (See Section F of instructions)

☒ A narrative has been prepared as described in Section F of the instructions and is attached.

The applicant may choose to include additional information beyond that required by Section F of the instructions.

G. GENERAL SITE SUITABILITY (See Section G of attached instructions)

This section must be completed when the proposed method of sewage disposal is the use of onlot sewage disposal systems or privies. The purpose of the information provided in this section is to determine the general suitability of the site for onlot disposal of sewage. Site suitability should not be construed as approval for permit issuance on individual lots. Additional testing may be required for permit issuance.

NOTE: If one or more lots in this subdivision are planned to be served by individual residential spray irrigation systems (IRSIS), please see the specific information on IRSIS in Section G.3 of the attached instructions.

1. **PLOT PLAN**

The following information is to be submitted on a plot plan of the proposed subdivision or development:

a. Location of all soil profiles and percolation tests.
b. Slope at each test area.
c. Soil types and boundaries.
d. Existing and proposed streets, roadways, access roads, etc.
e. Lot lines and lot sizes.
f. Existing and proposed rights-of-way.
g. Existing and proposed drinking water supplies for proposed and contiguous lots.
h. Existing buildings.
i. Surface waters.
j. Wetlands – from National Wetland Inventory Mapping and USDA Hydric Soils Mapping.
k. Floodplain or floodprone area soils, floodways (Federal Flood Insurance Mapping).
l. Designated open space areas.
m. Remaining acreage under the same ownership and contiguous lots.
n. Existing onlot or sewerage systems; pipelines, transmission lines, etc., in-use or abandoned.
o. Prime agricultural land.
p. Orientation to North

2. **RESIDUAL TRACT PLANNING WAIVER REQUEST**

A waiver from sewage facilities planning ☐ is, ☒ is not requested for the residual land tract associated with this project. (See Section H, Section Q, Component 4 and instructions for additional information).

3. **SOILS INFORMATION**

a. Attach copies of "Site Investigation and Percolation Test Report" (3800-FM-WSFR0290A) (formerly known as "Appendix A") form(s) for the proposed subdivision.

b. Marginal conditions for long-term onlot sewage disposal ☒ are, ☐ are not present. See marginal conditions information in Sections H and Q and in attached instructions.

c. If one or more lots in this subdivision are planned to be served by Individual Residential Spray Irrigation Systems (IRSIS), please see the specific information on IRSIS in Section G of the instructions.

4. **WETLAND PROTECTION**

YES NO

a. ☒ ☐ Are there wetlands in the project area? If yes, ensure these areas appear on the plot plan as shown in the mapping or through on-site delineation.

b. ☐ ☒ Are there any construction activities (encroachments, or obstructions) proposed in, along, or through the wetlands? If yes, Identify any proposed encroachments on wetlands and identify whether a General Permit or a full encroachment permit will be required. If a full permit is required, address time and cost impacts on the project. Note that wetland encroachments should be avoided where feasible. Also note that a feasible alternative **MUST BE SELECTED** to an identified encroachment on an exceptional value wetland as defined in Chapter 105. Identify any project impacts on streams classified as HQ or EV and address impacts of the permitting requirements of said encroachments on the project.

5. **PRIMARY AGRICULTURAL LAND PROTECTION**

YES NO

☐ ☒ Will the project involve the disturbance of prime agricultural lands?

If yes coordinate with local officials to resolve any conflicts with the local prime agricultural land protection program. The project must be consistent with such municipal programs before the sewage facilities planning module package may be submitted to DEP.

If no, prime agricultural land protection is not a factor to this project. Proceed to G.6.

☒ ☐ Is this project consistent with the municipal prime agricultural land protection program.

6. **HISTORIC PRESERVATION ACT**

YES NO

a. ☒ ☐ Sufficient documentation is attached to confirm that this project is consistent with DEP Technical Guidance 012-0700-001 *Implementation of the PA State History Code* (available online at the DEP Web site at www.depweb.state.pa.us select "subject" then select "technical guidance"). As a minimum this includes copies of the completed Cultural Resources Notice (CRN), a return receipt for its submission to the PHMC and the PHMC review letter.

H. SEWAGE ENFORCEMENT OFFICER ACTION (See Section H of attached instructions)

1. I have confirmed the information relating to the general suitability for onlot sewage disposal contained in this component. Confirmation of this information was based upon on-site verification of soil tests, general site conditions and other generally available soils information. The proposed development site:
   - ☐ Is generally suitable for onlot disposal. This module does not constitute individual permit approval.
   - ☒ Is marginal for long-term onlot disposal. (See instructions for information on marginal conditions).
   - ☐ Is not generally suitable for onlot disposal. (See my attached comments regarding this determination).
   - ☐ Cannot be evaluated for general site suitability because of insufficient soils testing.

2. The proposed development site is considered "marginal for onlot disposal" or for long-term onlot system use because one or more of the following conditions exist. (Check all that apply).
   - ☒ Soils profile examinations which document areas of suitable soil intermixed with areas of unsuitable soils.
   - ☐ Site evaluation which documents soils generally suitable for elevated sand mounds with some potential lots with slopes over 12%.
   - ☐ Site evaluation which documents soils generally suitable for in-ground systems with some potential lots with slopes in excess of 20%.
   - ☐ Lot density of more than 1 Residential Dwelling Unit/acre.
   - ☐ Proposed use of a community onlot disposal system or system serving commercial, industrial or institutional uses.

3. Residual Tract Facilities (For use only when there is an existing onlot disposal system on the residual tract)

☑ I have inspected the lot on which the existing building and existing onlot disposal system is located and have concluded, based on soils mapping or soils evaluation, permit information or site inspection that the long-term sewage disposal needs of this site and the building currently served can be met. (Required)

☑ I further acknowledge that no violations of the Sewage Facilities Act are known to me or have become apparent as a result of my site inspection. No inferences regarding future performance of the existing onlot disposal system should be drawn from this acknowledgement. (Required)

☐ A brief description and sketch of the existing system and site is attached. (Optional)

Signature of Certified Sewage Enforcement Officer having jurisdiction in municipality where development is proposed	# 03994 Certification #	12/12/17 Date

I. ALTERNATIVE SEWAGE FACILITIES ANALYSIS (See Section I of attached instructions)

This analysis consists of a narrative that will support the chosen sewage disposal method by comparing it to methods already in use in the area or to any other available method. Attach the narrative to the package and title it **Alternative Analysis**. The narrative should describe:

1. the chosen sewage disposal method, and whether the method is interim (to be replaced within 5 years) or ultimate (will serve the development beyond 5 years). Also provide the number of lots or EDU's that will be served.

I. ALTERNATIVE SEWAGE FACILITIES ANALYSIS (Continued) (See Section I of attached instructions)

2. the types of land uses adjacent to the project area (agricultural, residential, commercial etc.) and the type of sewage disposal method serving each of those land uses.
3. if the sewage facilities described in (2) are in need of improvement due to high rates of onlot malfunction or overloaded public sewers.
4. the sewage disposal method indicated for the development area in the municipality's Official Sewage Facilities Plan. (Such as: onlot disposal systems, public sewers, etc.).
5. existing and/or proposed sewage management program(s) in the area and/or any other municipal options necessary to satisfy the requirements of section(s) 71.72 or 71.73 including the provisions of the selected option.
6. potential alternative sewage disposal methods that are available for the project.
7. why the proposed disposal method was chosen over the alternative methods discussed.
8. who will be the owner of the facility, and who will be responsible for operation and maintenance of the facility.
9. any other information that the developer feels will support the chosen disposal method.

Complete the following sections (J, K, L and/or M) if indicated ☒.

If none are indicated, go directly to Section N.

☐ J. PROTECTION OF RARE, ENDANGERED OR THREATENED SPECIES

(See Section J of instructions)

Check one:

☒ The "Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt" resulting from my search of the PNDI database and all supporting documentation from jurisdictional agencies (when necessary) is/are attached.

☐ A completed "Pennsylvania Natural Diversity Inventory (PNDI) Project Planning & Environmental Review Form," (PNDI Form) available at www.naturalheritage.state.pa.us , and all required supporting documentation is attached. I request DEP staff to compete the required PNDI search for my project. I realize that my planning module will be considered incomplete upon submission to the Department and that the DEP review will not begin, and that processing of my planning module will be delayed, until a "PNDI Project Environmental Review Receipt" and all supporting documentation from jurisdictional agencies (when necessary) is/are received by DEP.

"Applicant or Consultant Initials JRF "

☐ K. PERMEABILITY TESTING (See Section K of attached instructions)

☐ The information required in Section K of the instructions is attached.

☐ L. PRELIMINARY HYDROGEOLOGIC STUDY (See Section L of attached instructions)

☐ The information required in Section L of the instructions is attached.

☐ M. DETAILED HYDROGEOLOGIC STUDY (See Section M of attached instructions)

☐ The information required in Section M of the instructions is attached.

N. RETAINING TANKS (See Section N of attached instructions)

The term "Retaining Tank" includes holding tanks and privies, as well as, chemical, incinerating, recycling, and composting toilets. Check the appropriate box.

☐ Yes ☒ No Does this new land development project propose either interim or long-term use of retaining tanks?
If yes, complete the remainder of Section N.
If no, completion of the remainder of Section N is not required. Proceed to Section O.

What types of retaining tanks are proposed? Check all that apply.

☐ Holding Tank ☐ Privy ☐ Chemical ☐ Incinerating ☐ Recycling ☐ Composting

1. **Holding Tanks** – are only to be used in new land development as an interim sewage disposal method and only for a period of time determined by DEP. A replacement sewage disposal method is required and an implementation schedule for that replacement method must be developed. Local ordinances must also be ***in place*** to provide for the maintenance of the tanks. Complete a. and b. below. For exceptions to these requirements see Chapter 71, Section 71.63 (Retaining Tanks).

   a. The following questions will help determine if a holding tank can be used.

      1) ☐ Yes ☐ No Does the Official Sewage Facilities plan or revision provide for replacement of the tanks by adequate sewage services?

      2) ☐ Yes ☐ No Does the Official Sewage Facilities Plan or revision include financial assurances for the implementation of the replacement method?

      If yes, what is the replacement sewage disposal method?

      Method _____

      If no, holding tanks may not be used.

   b. Chapter 72 requires that the municipality, sewer authority or other DEP approved entity with responsibility over the holding tanks have ***in place*** ordinances, regulations or restrictions established to maintain the tanks as outlined in Chapter 71, Section 71.63(c)(3). Attach documentation that the responsible agency has developed these ordinances or restrictions. These projects must also complete Part 3 below (Retaining Tank Pumping and Content Disposal).

2. **Privies/Chemical Toilets**
   Projects that propose privies as the method of sewage disposal must complete a, b and c below. For exceptions to these requirements see Chapter 71, Section 71.63 (Retaining Tanks).

   a. Complete Section G of this Component.

   b. The municipality, sewer authority, management agency or other DEP approved entity with responsibility over the site must have ordinances, regulations or restrictions established that assume responsibility for the removal of a privy and installation of an approved onlot sewage disposal system when water under pressure is provided to that lot. Attach a copy of these ordinances, regulations or restrictions.

c. These projects must also complete Part 3 below (Retaining Tank Pumping and Content Disposal).

N. RETAINING TANKS cont'd. (See Section N of attached instructions)

3. Retaining Tank Pumping and Content Disposal

a) Name of Retaining Tank Cleaner _____
(This can be the municipality or a contracted cleaner)

Address _____

Telephone Number _____

b) Name of Disposal Site _____

Type of treatment facility _____

NPDES or Land Disposal permit number _____

County _____ Municipality _____

Attach letter of agreement with the proposed disposal site verifying adequate capacity for disposal needs. Retaining tank wastes must be disposed of at a DEP permitted facilities or sites.

c) A municipality, sewer authority, or sewage management agency may delegate or contract for the collection and disposal of retaining tank contents, except that the ultimate responsibility for the proper collection and disposal of the contents shall remain with the municipality, authority or agency.

O. PUBLIC NOTIFICATION REQUIREMENT (See Section O of attached instructions)

This section must be completed to determine if the applicant will be required to publish certain facts about the project in a newspaper of general circulation in accordance with Chapter 71, Section 71.53(d)(6) to provide a chance for the general public to comment on proposed new land development projects. This notice may be provided by the applicant or the applicant's agent, the municipality or the local agency by publication in a newspaper of general circulation within the municipality affected. Where an applicant or an applicant's agent provides the required notice for publication, the applicant or applicant's agent shall notify the municipality or local agency and the municipality and local agency will be relieved of the obligation to publish. The required content of the publication notice are found in Section O of the instructions.

To complete this section, each of the following questions must be answered with a "yes" or "no". Newspaper publication is required if any of the following are answered "yes". Check all boxes that apply.

	Yes	No	
1.	☐	☒	Does the project propose the construction of a sewage treatment facility?
2.	☐	☒	Will the project change the flow at an existing sewage treatment facility by more than 50,000 gallons per day?
3.	☐	☒	Will the project result in a public expenditure for the sewage facilities portion of the project in excess of $100,000?
4.	☐	☒	Will the project lead to a major modification of the existing municipal administrative organizations within the municipal government?
5.	☐	☒	Will the project require the establishment of *new* municipal administrative organizations within the municipal government?
6.	☐	☒	Will the project result in a subdivision of 50 lots or more?
7.	☐	☒	Does the project involve a major change in established growth projections?
8.	☐	☒	Does the project involve a different land use pattern than that established in the municipality's Official Sewage Facilities Plan?
9.	☐	☒	Does the project involve the use of large volume onlot sewage disposal systems (Flow > 10,000 gpd)?
10.	☐	☒	Does the project require resolution of a conflict between the proposed alternative and consistency requirements contained in Chapter 71.21(a)(5)(i), (ii), (iii)?

O. PUBLIC NOTIFICATION REQUIREMENT (Continued)

11. ☐ ☒ Will sewage facilities discharge into high quality or exceptional value waters?

☐ Attached is a copy of:

- ☐ the public notice,
- ☐ all comments received as a result of the notice,
- ☐ the municipal response to these comments.

☐ No comments were received. A copy of the public notice is attached.

P. FALSE SWEARING STATEMENT (See Section P of attached instructions)

The individual performing the tests and field evaluations necessary to complete ***Section G*** must provide the information below and sign the false swearing statement found to the right.

CORY WARNER
Name (Print)

SEO
Title

2643 GATEWAY DR STATE COLLEGE
Address

814-231-3056
Telephone Number

I verify that the soils information statements made in this component are true and correct to the best of my knowledge, information and belief. I understand that false statements in this component are made subject to the penalties of 18 PA C.S.A. §4904 relating to unsworn falsification to authorities.

C. M. Warner 12/12/17
Signature Date

Check One:

☑ The individual conducting these tests is a Sewage Enforcement Officer authorized to perform this work under a fee schedule established by the municipality.

☐ The individual conducting these tests is not a Sewage Enforcement Officer employed by the local agency in which this development is located.

The individual completing the rest of the component must provide their name, title, address, telephone

I verify that the statements made in this component are true and correct to the best of my knowledge, information and

number and sign the false swearing statement found to the right.

Steve Kirsch, PE
Name (Print)

Team Leader
Title

2568 Park Center Blvd, State College, PA 16801
Address

8142387117
Telephone Number

belief. I understand that false statements in this component are made subject to the penalties of 18 PA C.S.A. §4904 relating to unsworn falsification to authorities.

☐ A waiver of the planning requirements is requested for the residual tract of this subdivision. The requirements of Section G.2 of the instructions have been met.

St Ki 12/21/22
Signature Date

Q. MUNICIPAL ACTIONS (Marginal conditions, Residual Tract Waiver and/or O&M option)
(See Section Q of attached instructions)

This section is to be completed by the municipality if marginal conditions have been identified on the project site and/or if a waiver of the planning requirements has been requested for the residual tract of the subdivision and/or if an assurance of long term operation and maintenance is required by Section 71.72. If none of these conditions are met, do not complete this section.

1. ☒ The proposed development has been identified in Section G and/or Section H as having marginal conditions or other concerns for the long-term use of onlot sewage systems. The municipality has selected the following method of providing long-term sewage disposal to this subdivision: (Check one)

   ☐ Provision of a sewage management program meeting the minimum requirements of Chapter 71, Section 71.73

   ☒ Replacement area testing

   ☐ Scheduled replacement with sewerage facilities

   ☐ Reduction of the density of onlot systems

   ☐ The justification required in Section Q of the instructions is attached.

2. ☐ A **waiver** of the planning requirements for the residual tract of this subdivision has been requested.

   The municipality acknowledges acceptance of this proposal and requests a waiver of the sewage facilities planning requirements for the residual tract designated on the subdivision plot plan. Our municipal officials accept full responsibility now and in the future to identify any violation of this waiver and to submit to the approving agency any required sewage facilities planning for the designated residual tract should a violation occur or construction of a new sewage-generating structure on the residual tract of the subdivision be proposed. We understand that such planning information may require municipal officials to be responsible for soil testing and other environmental assessments for the residual tract in the future.

3. ☐ The **option** selected to assure long-term proper operation and maintenance, required by Title 25, PA Code, Section 71.72, for the proposed DEP permitted non-municipal sewage facility or local agency permitted community onlot sewage system is clearly identified and attached.

David C. Piper — (Chairperson) or Secretary of Governing Body

Signature — 1/26/2023 Date

Halfmoon Township
Municipality Name

100 Municipal Lane Port Matilda PA 16870
Address

Address

(Area Code) Telephone No. (814) 692-9800

R. PLANNING MODULE REVIEW FEE (See Section R of attached instructions)

The Sewage Facilities Act establishes a fee for the DEP planning module review. DEP will calculate the review fee for the project and invoice the project sponsor **OR** the project sponsor may attach a self-calculated fee payment to the planning module prior to submission of the planning package to DEP. (Since the fee and fee collection procedures may vary if a "delegated local agency" is conducting the review, the project sponsor should contact the "delegated local agency" to determine these details.) Check the appropriate box.

☐ I request the DEP calculate the review fee for my project and send me an invoice for the correct amount. I understand the Department's review of my project will not begin until the Department receives the correct review fee from me for the project.

R. PLANNING MODULE REVIEW FEE cont'd. (See Section R of attached instructions)

☒ I have calculated the review fee for my project using the formula found below and the review fee guidance in the instructions. I have attached a check or money order in the amount of $ 60 payable to "**Commonwealth of PA, DEP**". **Include DEP code number on check.** I understand the Department will not begin review of my project unless it receives the fee and determines the fee is correct. If the fee is incorrect, The Department will return my check or money order, send me an invoice for the correct amount. I understand the Department's review will NOT begin until I have submitted the correct fee.

☐ I request to be exempt from the DEP planning module review fee because this planning module creates **only** one new lot and is the **only** lot subdivided from a parcel of land as that land existed on December 14, 1995. I realize that subdivision of a second lot from this parcel of land shall disqualify me from this review fee exemption. I am furnishing the following deed reference information in support of my fee exemption.

County Recorder of Deeds for _____ County

Deed Volume _____ Book Number _____

Page Number _____ Date Recorded _____

Formula:

2 Lots (or EDUs) X $30.00 = $ 60

Note: (1) To calculate the review fee for any project, use the number of lots created or the whole number of project equivalent dwelling units (EDU), (whichever is greater) in the above formula.

(2) When using the number of lots, include only the number of lots being proposed when calculating the review fee. Do not include any "Residual Land Parcel/Lot".

(3) In all projects, the minimum sewage flow per lot is equal to 400 gallons per day (GPD) and represents a generic three-bedroom house on each lot. Projects that knowingly propose houses larger than the generic three-bedroom unit allow for the increased sewage flows from these larger units by adding 100 gallons per day for each additional bedroom in the house to this initial 400 GPD figure. The resulting project flow is in excess of the minimum 400 GPD for each lot created and must be converted into equivalent dwelling units (EDU) in order to correctly calculate the review fee. See note 4.

(4) To determine the total number of EDUs for a project, first determine the total project flow by adding together the flow from each proposed lot. Divide this total project flow by 400 GPD and, if it is greater than the number of lots being proposed, enter this greater figure in the above formula.

HALFMOON ACRES, LLC, c/o Mark C. Maloney
Developer Name (Print)

Signature 12/21/22
Date

STOP - CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES
THREE WORKING DAYS NOTICE
Pennsylvania One Call System, Inc.
1-800-242-1776

COMPLETENESS CHECKLIST

The individual completing the component should use the checklist below to assure that all items are included in the planning module package. The municipality should confirm that the required items have been included within 10 days of receipt, and if complete, sign and date the checklist.

ALL ONLOT/RETAINING TANK PROPOSALS

- [x] Name and address of land development project
- [x] USGS 7.5 minute topographic map with the development area plotted
- [x] Project narrative
- [ ] Letter of intent to serve the project from the public water supplier (if applicable)
- [x] Alternative analysis narrative
- [ ] Proof of public notification (if applicable)
- [x] Plot plan of project with all required information
- [x] A Site Investigation and Percolation Test Report forms for each soil profile examination and percolation test performed
- [ ] Preliminary Hydrogeology (if applicable)
- [ ] Permeability Testing (if applicable)
- [ ] Detailed Hydrogeology (if applicable)
- [x] Sewage Enforcement Officer's signature
- [ ] Soils information preparer's signature
- [x] Completed Component 4 (Planning Agency Review) for each existing planning agency and health department

Projects proposing holding tanks or privies are required to provide the following additional information.

HOLDING TANKS

- [ ] Copies of all ordinances, regulations, and/or restrictions governing holding tank maintenance
- [ ] Copy of the replacement method implementation schedule
- [ ] Copy of the financial assurances description for the replacement sewage disposal method
- [ ] Name of the tank cleaner/hauler
- [ ] Name and permit number of the disposal site
- [ ] Disposal site approval for holding tank contents disposal

PRIVIES

- [ ] Site Investigation and Percolation Test Report forms for all soil profiles and percolation tests
- [ ] Copies of ordinances, regulations, and/or restrictions for replacement of privies
- [ ] Disposal site approval for retaining tank contents disposal

MUNICIPAL ACTION

- [ ] Component 2, with SEO signature
- [ ] Component 4, planning agency comments and responses to those comments
- [ ] Proof of public notification
- [ ] Comments and responses generated by public notification
- [ ] Transmittal letter

Signature of Municipal Official

1/17/2023
Date Submittal Determined Complete

3850-FM-BCW0355 Rev. 5/2016

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

TRANSMITTAL LETTER FOR SEWAGE FACILITIES PLANNING MODULE

DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) USE ONLY				
DEP CODE #	CLIENT ID #	SITE ID #	APS ID #	AUTH. ID #

TO: Approving Agency (DEP or delegated local agency)
Clean Water Program
208 W. Third Street, Suite 101
Williamsport PA 17701-6448

Date 1/26/2023

Dear Sir/Madam:

Attached please find a completed sewage facilities planning module prepared by Steve Kirsh (Name)
Team Leader Herbert, Rowland and Grubic (Title) for Replot of Parcels 17-2-4 and 17-2-4A (Name)
a subdivision, commercial ,or industrial facility located in
Port Matilda, Halfmoon Township, Centre (City, Borough, Township) County.

Check one

☒ (i) The planning module, as prepared and submitted by the applicant, is approved by the municipality as a proposed ☒ revision ☐ supplement for new land development to its Official Sewage Facilities Plan (Official Plan), and is ☐ adopted for submission to DEP ☐ transmitted to the delegated LA for approval in accordance with the requirements of 25 *Pa. Code* Chapter 71 and the *Pennsylvania Sewage Facilities Act* (35 P.S. §750),

OR

☐ (ii) The planning module will not be approved by the municipality as a proposed revision or supplement for new land development to its Official Plan because the project described therein is unacceptable for the reason(s) checked below:

Check Boxes

☐ Additional studies are being performed by or on behalf of this municipality which may have an effect on the planning module as prepared and submitted by the applicant. Attached hereto is the scope of services to be performed and the time schedule for completion of said studies.

☐ The planning module as submitted by the applicant fails to meet limitations imposed by other laws or ordinances, officially adopted comprehensive plans and/or environmental plans (e.g., zoning, land use, 25 *Pa. Code* Chapter 71). Specific reference or applicable segments of such laws or plans are attached hereto.

☐ Other (attach additional sheet giving specifics).

Municipal Secretary: Indicate below by checking appropriate boxes which components are being transmitted to the approving agency.

☒ Resolution of Adoption
☒ Module Completeness Checklist
☒ 2 Individual and Community Onlot Disposal of Sewage
☐ 3 Sewage Collection/Treatment Facilities
☐ 3s Small Flow Treatment Facilities
☒ 4A Municipal Planning Agency Review
☒ 4B County Planning Agency Review
☐ 4C County or Joint Health Department Review

Amy M Smith — *Municipal Secretary (print)*
Amy M Smith — *Signature*
1/26/2023 — *Date*

Project Narrative

For Replot of Parcels 17-2-4 and 17-2-4A– Component 2 Sewage Facilities Planning Module

The proposed project is located along Halfmoon Valley Road (SR 0550) in Halfmoon and Worth Townships. The existing parcel 17-2-4 contains 86.555 acres which located entirely on the southern side of SR 0550 and the existing parcel 17-2-4A contains 241.401 acres and is located on both the south and north sides of SR 0550. Both parcels are currently being used for agriculture and both contain a one single family residence as accessory uses. Both existing residences have functioning on-lot septic systems. The proposed replot will include transfer the southern portion of parcel 17-2-4A to parcel 17-2-4, with the end result being that parcel 17-2-4A is entirely on the northern side of SR 0550 and parcel 17-2-4 is entirely on the southern side of SR 0550. There is no proposed new development as part of this plan.

Any future development of these parcels or other adjacent parcels owned by the developer will require additional sewage planning approvals and would not be connected to the two existing systems.

The existing/proposed sewage flow for the two existing single family residences is 400 gallons per day each or 800 gallons per day total, based on Pennsylvania Code, Chapter 73 §73.17 for a 3 bedroom or less single family residence. The existing single family residences will continue to be served by separate on-lot septic systems with a reserve location tested as part of this project. The surrounding lots are also served by on-lot septic systems.

There are no water supplies within 100' of the testing locations. The existing single family residence on 17-2-4 is served by an existing well. The existing single family residence on 17-2-4A is served by a spring house. The existing single family residences had testing conducted for backup on-lot septic system location on each lot. Any future water systems will be placed greater than 100' away from the tested locations. See Site Investigations Report and Subdivision plan for test pit locations and additional information.

This project is exempt from the conditions set forth in DEP Technical Guidance 012-0700-001 *Implementation of the PA State History Code*. This project proposes earth disturbances less than the 10-acre disturbance limit set forth for exemption. This project also does not propose any demolition or modification of any buildings that are 40 years or older. This project also does not require any state or federal funding to complete in its entirety.

The property does contain flood plains as defined by FEMA and wetlands, but there is no proposed construction activities or earth disturbances proposed with this plan and the existing on-lot septic treatment systems and back up areas are not within these special areas.

Replot of Parcels 17-2-4 and 17-2-4A
DEP-Sewage Facilities Planning Module
Alternative Sewage Facilities Analysis

Project Description

The proposed project is located along Halfmoon Valley Road (SR 0550) in Halfmoon and Worth Townships. The existing parcel 17-2-4 contains 86.555 acres which located entirely on the southern side of SR 0550 and the existing parcel 17-2-4A contains 241.401 acres and is located on both the south and north sides of SR 0550. Both parcels are currently being used for agriculture and both contain a one single family residence as accessory uses. Both existing residences have functioning on-lot septic systems. The proposed replot will include transfer the southern portion of parcel 17-2-4A to parcel 17-2-4, with the end result being that parcel 17-2-4A is entirely on the northern side of SR 0550 and parcel 17-2-4 is entirely on the southern side of SR 0550. There is no proposed new development as part of this plan.

Component 2

1. Wastewater generated from each of the existing single family residences will continue to be treated using the existing on-lot systems. The site will have 2 EDU. Average daily flows are estimated to be approximately 800 gpd.
2. The land use in the direct vicinity of the site is considered to be agricultural with accessory use of single family residential. The lots in the direct vicinity are served by individual on-lot septic systems.
3. There are no improvements proposed for existing sewage collection, conveyance, or treatment facilities as a result of this project.
4. The site location is within the area designated in the Act 537 plan to be served by individual on-lot disposal systems.
5. The site will be part of the Sewage Management Program.
6. The wastewater generated from this project is the result of a property zoned agricultural in Halfmoon Township. The site has adequate locations for an individual on-lot disposal system that could be used for a reserve system for the existing or should the areas ever be deemed inadequate for on-lot septic. A reserve system location was tested for both of the existing parcels.
7. An on-lot system is the only feasible system in this area for the proposed lot. The site has adequate locations for an individual on-lot disposal system. A reserve system for the existing systems shall be constructed should the tested areas ever be deemed inadequate for on-lot septic.
8. The owner is responsible for compliance with water quality standards and effluent limitations.
9. There are no other special considerations related to the proposed disposal method.

3850-FM-BCW0356 Rev. 5/2016

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code No.

RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE (SUPERVISORS) (COMMISSIONERS) (COUNCILMEN) of Halfmoon (TOWNSHIP) (BOROUGH) (CITY), Centre COUNTY, PENNSYLVANIA (hereinafter "the municipality").

WHEREAS Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the *Pennsylvania Sewage Facilities Act*, as Amended, and the rules and Regulations of the Pennsylvania Department of Environmental Protection (DEP) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to determine whether a proposed method of sewage disposal for a new land development conforms to a comprehensive program of pollution control and water quality management, and

WHEREAS Mark Maloney (land developer) has proposed the development of a parcel of land identified as Replot of Parcels 17-2-4 & 17-2-4A (name of subdivision), and described in the attached Sewage Facilities Planning Module, and proposes that such subdivision be served by: (check all that apply), ☐ sewer tap-ins, ☐ sewer extension, ☐ new treatment facility, ☒ individual onlot systems, ☐ community onlot systems, ☐ spray irrigation, ☐ retaining tanks, ☐ other, (please specify). _____

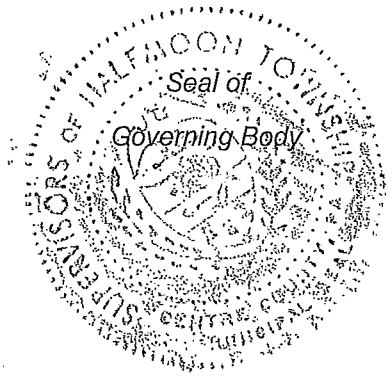
WHEREAS, Halfmoon Township (municipality) finds that the subdivision described in the attached Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the (Supervisors) (Commissioners) (Councilmen) of the (Township) (Borough) (City) of Halfmoon hereby adopt and submit to DEP for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

I _____ (Signature), Secretary, Halfmoon Township Board of Supervisors (Borough Council) (City Councilmen), hereby certify that the foregoing is a true copy of the Township (Borough) (City) Resolution # 2023-08, adopted, January 26, 2023.

Municipal Address:

Halfmoon Township
100 Municipal Lane
Port Matilda, PA 16870
Telephone 814-692-9800



1. PROJECT INFORMATION

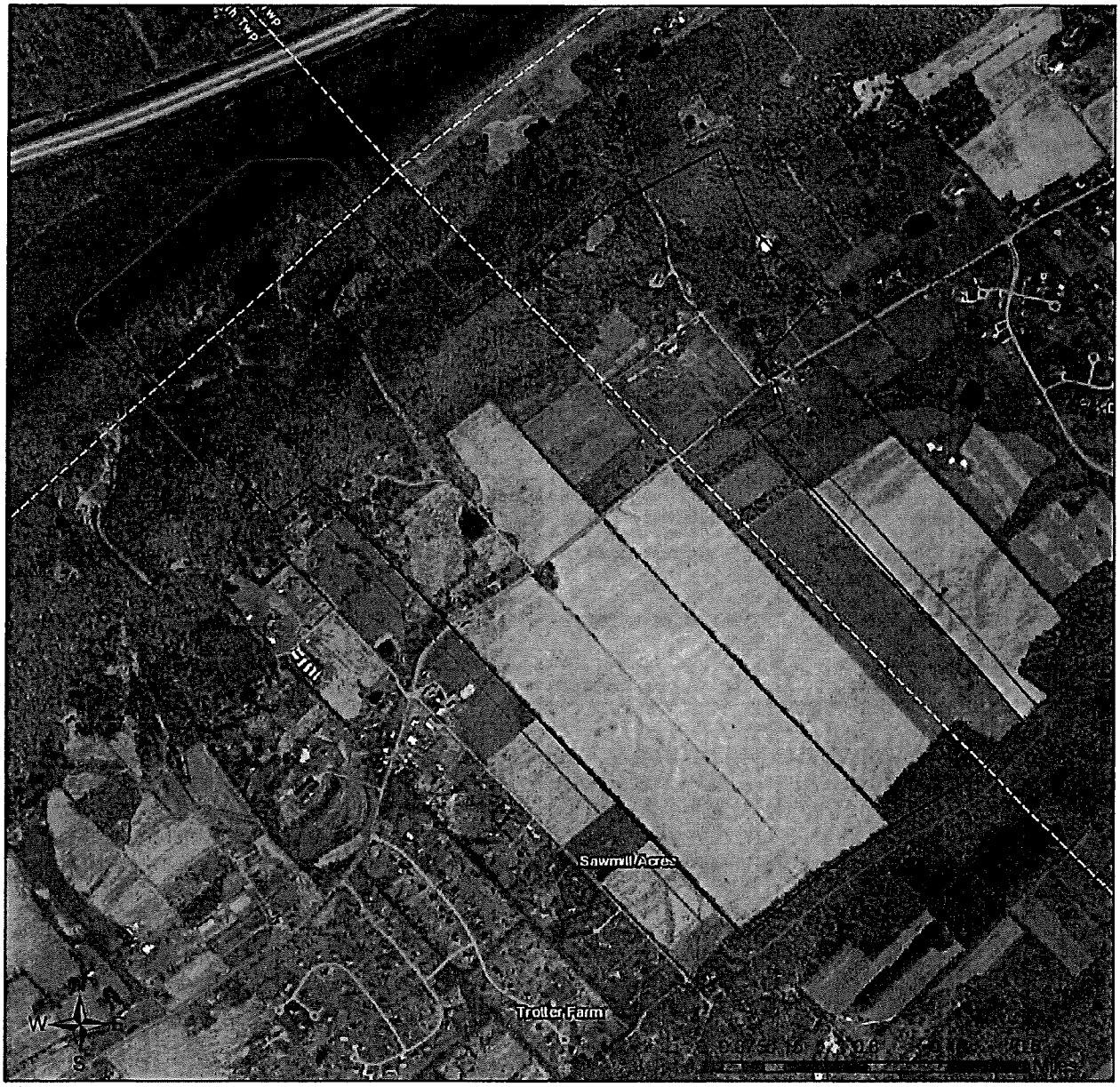
Project Name: **Halfmoon Acres R008018.0425 Ph03**
Date of Review: **7/30/2021 10:24:29 AM**
Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**
Project Area: **716.22 acres**
County(s): **Centre**
Township/Municipality(s): **HALFMOON TOWNSHIP; PATTON TOWNSHIP; WORTH TOWNSHIP**
ZIP Code:
Quadrangle Name(s): **JULIAN; PORT MATILDA**
Watersheds HUC 8: **Bald Eagle; Upper Juniata**
Watersheds HUC 12: **Buffalo Run; Halfmoon Creek; Laurel Run-Bald Eagle Creek**
Decimal Degrees: **40.812031, -77.991266**
Degrees Minutes Seconds: **40° 48' 43.3125" N, 77° 59' 28.5570" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
PA Fish and Boat Commission	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

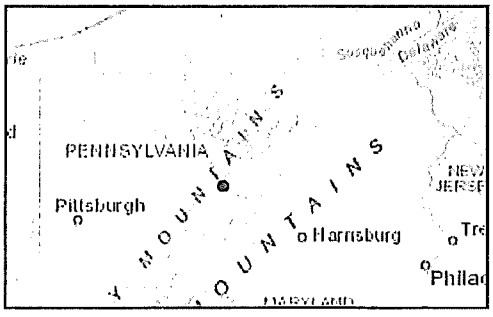
As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Halfmoon Acres R008018.0425 Ph03



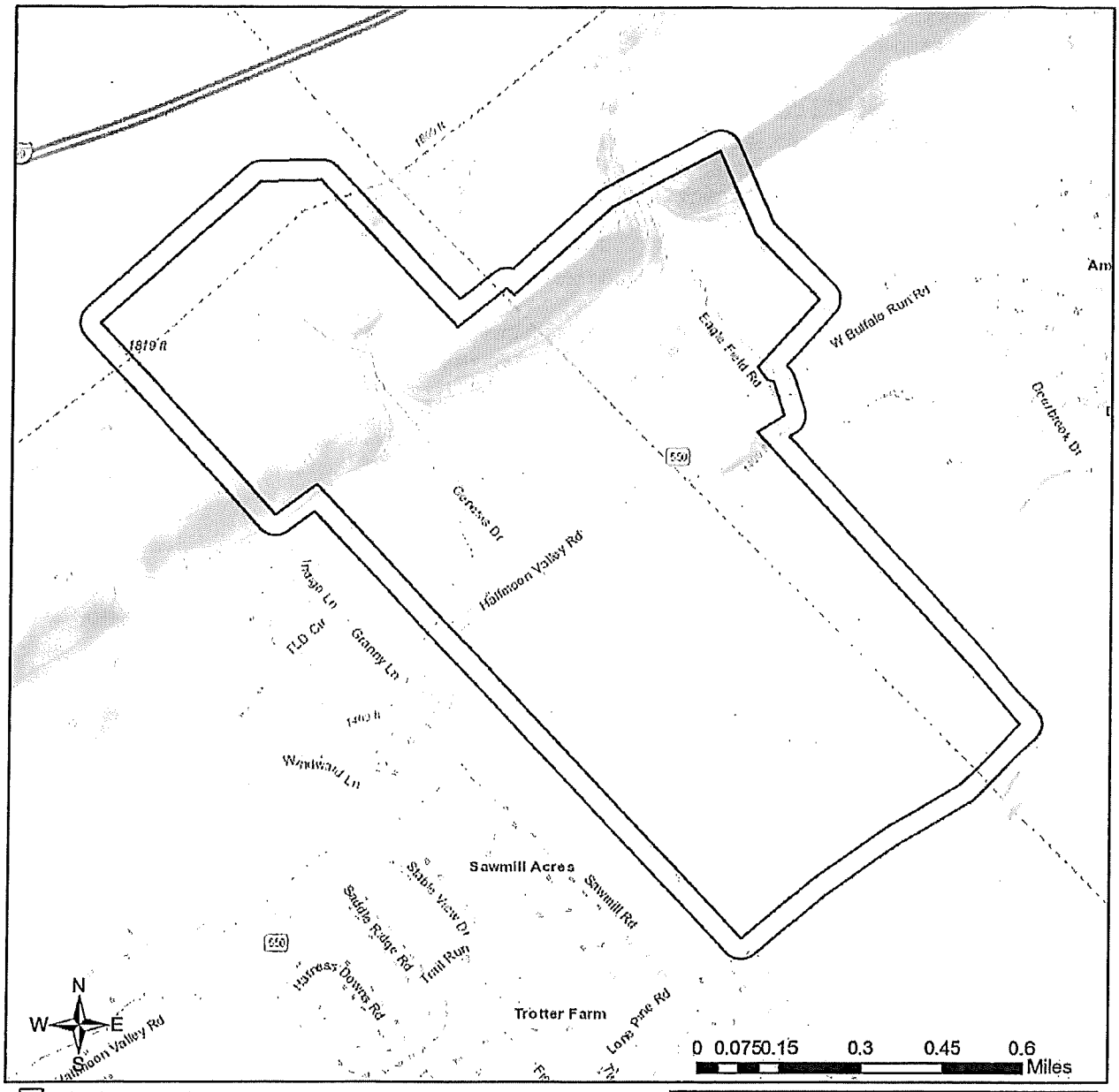
☐ Project Boundary

☐ Buffered Project Boundary



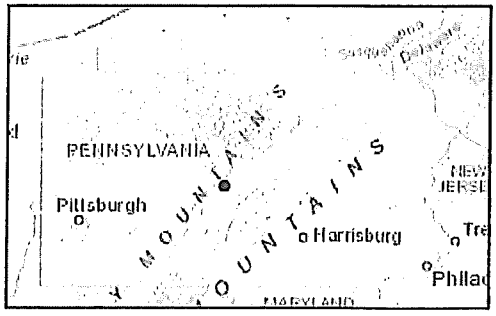
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

Halfmoon Acres R008018.0425 Ph03



☐ Project Boundary

☐ Buffered Project Boundary



Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

RESPONSE TO QUESTION(S) ASKED

Q1: Will the entire project occur within an existing building, parking lot, driveway, road, street, or maintained (periodically mowed) lawn?
Your answer is: Unknown

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jursidictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission
RESPONSE:
No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources
RESPONSE:
Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: https://conservationexplorer.dcnr.pa.gov/content/survey-protocols)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Sensitive Species**		Special Concern Species*	Special Concern Species*	One flight from March-April in the south, May-June in the north

PA Fish and Boat Commission
RESPONSE:
Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service
RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found here. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).
*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:
____Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
____A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
In addition to the materials listed above, USFWS REQUIRES the following
____**SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.
____Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
____Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Fish and Boat Commission
Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

PA Game Commission
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Shelby M. McVey, E.I.T.
Company/Business Name: Herbert, Rowland and Grubic, Inc.
Address: 2568 Park Center Boulevard
City, State, Zip: State College, PA 16801
Phone: (814) 238-7117 Fax: ( )
Email: smcvey@hrg-inc.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Shelby M. McVey — July 30, 2021

applicant/project proponent signature — date

Pennsylvania Fish & Boat Commission

established 1866

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

August 2, 2021

IN REPLY REFER TO
SIR# 54870

Herbert, Rowland & Grubic, Inc.
Shelby McVey
2568 Park Center Blvd
State College, Pennsylvania 16801

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 739370_1
Halfmoon Acres R008018.0425 Ph03
CENTRE County: Halfmoon Township, Patton Township, Worth Township

Dear Shelby McVey:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search "potential conflict" or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

According to this submission and our records there have been no changes in the project or on-site biological information; therefore, the Commission's comments regarding potential impacts to rare, candidate, threatened, or endangered species under our jurisdiction, as detailed in our letter of September 13, 2019 for SIR# 49918, remain unchanged. In summary, an Eastern Spadefoot habitat evaluation was conducted on the subject property by recognized/qualified Eastern Spadefoot surveyor, Mr. Brandon Ruhe of Ecological Associates, LLC. The results were negative, and the Commission concurred. No habitat for the Eastern Spadefoot were found on the property; therefore, no potential adverse impacts are expected from the proposed project on the Eastern Spadefoot or any other rare or protected species under the Pennsylvania Fish and Boat Commissions jurisdiction.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or

proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact me at curban@pa.gov or 814-359-5113 and refer to the SIR # 54870. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

Christopher A. Urban, Chief
Natural Diversity Section

CAU/dn

pennsylvania
DEPARTMENT OF CONSERVATION
AND NATURAL RESOURCES

BUREAU OF FORESTRY

August 11, 2021

PNDI Number: 739370
Version: Final_1; 7/30/21

Shelby McVey
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College, PA 16801
Email: smcvey@hrg-inc.com (hard copy will not follow)

Re: Halfmoon Acres R008018.0425 Ph03
Halfmoon, Patton, Worth Township; Centre County, PA

Dear Ms. McVey,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number **739370 (Final_1)** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

Recommended Actions:

- Clean boot treads, tools, construction equipment, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other worksites.
- Use clean project materials (e.g., weed-free straw) or materials native to the worksite to avoid introducing invasive species from contaminated sources.
- Revegetate or cover disturbed soil and stockpiles quickly to discourage the germination of invasive plants. Implement proper erosion control practices to stabilize soil and reduce runoff.
- Do not use seed mixes that include invasive species. More information about invasive plants in Pennsylvania can be found at the following link: http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx
- Use habitat appropriate seed mixes. For example, use a riparian seed mix when reseeding along a waterway. The *Bureau of Forestry Planting & Seeding Guidelines* can be found at the following link for recommendations: http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf
- Use native plants for landscaping, revegetation, and stormwater management. Do not use nonnative invasive species. Reduce the area of lawn and impermeable surfaces to the fullest extent practicable in favor of native gardens or habitat restoration (e.g., forest, meadow, wetland, etc.). More information about lawn conversion can be found at the following link: https://www.dcnr.pa.gov/Conservation/Water/LawnConversion/Pages/default.aspx

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Alexander Dogonniuck, Ecological Information Specialist, by phone (717-783-3913) or via email (c-adogonni@pa.gov).

Sincerely

Greg Podniesinski

Greg Podniesinski, Section Chief
Natural Heritage Section

3850-FM-BCW0290A 4/2016
pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 2-21 Subdivision Name Maloney

☐ SUITABLE Soil Type _____ Slope 8 % Depth to Limiting Zone 18 Ave. Perc. Rate _____

☒ UNSUITABLE ☒ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory Warner Date: 10/26/21

Inches		Description of Horizon
0	TO 2	10YR 2/1 Very Dark Gray;Silt Loam;Granular;Very Friable
2	TO 18	10YR 7/8 Yellow;Loam Mod. SBK;Friable Redox @ 18
18	TO 34 DOP	10YR 7/8 Yellow;Loam; Mod. SBK;Friable
_____	TO _____	
_____	TO _____	
_____	TO _____	

PERCOLATION TEST:

Percolation Test Completed by: _____ Date: _____

Weather Conditions: ☐ Below 40°F ☐ 40°F or above ☐ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☐ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1			10 / 30								
2			10 / 30								
3			10 / 30								
4			10 / 30								
5			10 / 30								
6			10 / 30								

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	_____ "	_____	_____ "
2	_____ "	_____	_____ "
3	_____ "	_____	_____ "
4	_____ "	_____	_____ "
5	_____ "	_____	_____ " Min
6	_____ "	_____	_____ " Inch
TOTAL OF MIN / IN →		_____ =	_____
TOTAL NO. OF HOLES→		_____	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

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pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 1-22 Subdivision Name Maloney

☒ SUITABLE Soil Type AnB Slope _____ % Depth to Limiting Zone 35" Ave. Perc. Rate 35.18

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory M. Warner Date: 3/29/22

Inches		Description of Horizon
0	TO 7	10YR 3/2 Very Dark Greyish Brown;Silt Loam;Granular;Very Friable
7	TO 16	10YR 5/6 Yellowish Brown;Silt Loam;Weak SBK;Friable
16	TO 35	10YR 5/8 Yellowish Brown; Silt Loam;Mod. SBK,Friable Redox @ 35 "
35	TO 55 DOP	10YR 5/8 Yellowish Brown; Silt Loam;Mod. SBK,Friable
_____	TO _____	
_____	TO _____	Water Table at 55"

PERCOLATION TEST:

Percolation Test Completed by: Jonathan T. Long Date: 8/31/22

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☐ Dry ☒ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10 / 30	3 1/2	2 5/8	2 5/8	2 3/8	2 3/8			
2	X		10 / 30	3/8	3/8	3/8	1/4				
3		X	10 / 30	3 5/8	3 1/4	2 5/8	2 5/8	2 3/8	2 1/4	2 1/4	2 1/4
4	X		10 / 30	1 3/8	1 1/4	1 1/8	1	1			
5	X		10 / 30	1 3/8	1 1/4	1	1	1			
6	X		10 / 30	3	2 5/8	2 3/8	2 1/8	2 1/4	2 1/8		

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	2 3/8 "	12.6	20 "
2	1/4 "	120	20 "
3	2 1/4 "	4.4	20 "
4	1 "	30	20 "
5	1 "	30	20 "
6	2 1/8 "	14.1	20 " Min / Inch
TOTAL OF MIN / IN →		211.1	= 35.18
TOTAL NO. OF HOLES→		6	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

RKP

3850-FM-BCW0290A 4/2016

pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 3-21 Subdivision Name Maloney

☐ SUITABLE Soil Type _____ Slope 8 % Depth to Limiting Zone 18 Ave. Perc. Rate _____

☒ UNSUITABLE ☒ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory Warner Date: 10/26/2021

Inches		Description of Horizon
0	TO 2	10YR 2/1 Very Dark Grey;Silt Loam;Granular;Very Friable
2	TO 18	10YR 7/8 Yellow;Loam;Mod SBK,Friable Redox @ 18
18	TO 27 DOP	10YR 7/8 Yellow;Loam;Mod SBK,Friable
_____	TO _____	
_____	TO _____	
_____	TO _____	

PERCOLATION TEST:

Percolation Test Completed by: _____ Date: _____

Weather Conditions: ☐ Below 40°F ☐ 40°F or above ☐ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☐ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1			10 / 30								
2			10 / 30								
3			10 / 30								
4			10 / 30								
5			10 / 30								
6			10 / 30								

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	_____ "	_____	_____ "
2	_____ "	_____	_____ "
3	_____ "	_____	_____ "
4	_____ "	_____	_____ "
5	_____ "	_____	_____ " Min
6	_____ "	_____	_____ " Inch
TOTAL OF MIN / IN →		_____ =	_____
TOTAL NO. OF HOLES→		_____	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

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BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 2-22 Subdivision Name Maloney

☒ SUITABLE Soil Type AnB Slope 4 % Depth to Limiting Zone 30" DOP Ave. Perc. Rate 11.41

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory M. Warner Date: 7/06/22

Inches		Description of Horizon
0	TO 1	10YR 3/3 Dark Brown;Silt Loam;Granular;Very Friable
1	TO 20	10YR 6/6 Yellowish Brown; Loam;Weak SBK;Firm
20	TO 30	10YR 6/6 Yellowish Brown; Very Channery Loam;Mod. SBK,Friable
____	TO ____	
____	TO ____	BedRock @ 30" DOP
____	TO ____	

PERCOLATION TEST:

Percolation Test Completed by: Jonathan T. Long Date: 7/26/22

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☐ Dry ☒ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10 / 30	2 7/8	2 1/2	2 1/4	2 1/4	2	2		
2	X		10 / 30	3 5/8	3 1/4	2 7/8	2 7/8	2 7/8	2 3/4		
3	X		10 / 30	4 1/8	3 5/8	3 5/8	3 3/8	3 1/4	2 3/4	2 7/8	3 1/8
4	X		10 / 30	3 3/4	3 1/8	3	2 1/2	3 7/8	3 1/8	3 1/8	2 3/4
5		X	10 / 30	4 7/8	4 5/8	3 7/8	3 5/8	3 5/8	2 7/8	2 7/8	2 3/4
6	X		10 / 30	4 3/4	4 1/4	4	3 3/4	3 1/2	3 1/8	3 1/2	1 5/8

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	2 "	15	20 "
2	2 3/4 "	10.9	20 "
3	3 1/8 "	9.6	20 "
4	2 3/4 "	10.9	20 "
5	2 3/4 "	3.6	20 " Min
6	1 5/8 "	18.5	20 " / Inch
TOTAL OF MIN / IN →		68.5	= 11.41
TOTAL NO. OF HOLES→		6	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

BKR

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 3 -22 Subdivision Name Maloney

☒ SUITABLE Soil Type AnB Slope 7 % Depth to Limiting Zone 43" DOP Ave. Perc. Rate 95

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory M. Warner Date: 7/06/22

Inches		Description of Horizon
0	TO 2	10YR 3/3 Dark Brown;Silt Loam;Granular;Very Friable
2	TO 16	10YR 5/6 Yellowish Brown;Channery Loam;Weak SBK;Firm
16	TO 43	5YR 4/6 Yellowish Red; Extremely Channery Sandy Loam;Mod. SBK,Friable
____	TO ____	
____	TO ____	BedRock @ 43" DOP
____	TO ____	

PERCOLATION TEST:

Percolation Test Completed by: Jonathan T. long Date: 7/26/22

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☐ Dry ☒ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10 / 30	3/4	1 /2	3/8	1/4	1/4			
2	X		10 / 30	1/8	1/8	1/8	1/8				
3	X		10 / 30	1	1	3/4	3/4				
4	X		10 / 30	2 3/4	1 5/8	1 3/8	1 1/8	1 3/8	1	1/2	1
5	X		10 / 30	3/8	1/4	1/4	1/4				
6	X		10 / 30	2 1/8	1 1/2	1 1/2	1 1/2	1 1/2			

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	1/4 "	120	20 "
2	1/8 "	240	20 "
3	3/4 "	40	20 "
4	1 "	30	20 "
5	1/4 "	120	20 "
6	1 1/2 "	20	20 " Min / Inch
TOTAL OF MIN / IN →		570	= 95
TOTAL NO. OF HOLES→		6	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 4-21 Subdivision Name Maloney

☐ SUITABLE Soil Type _____ Slope 5 % Depth to Limiting Zone 33" DOP Ave. Perc. Rate 163.4

☒ UNSUITABLE ☒ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☒ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory Warner Date: 10/26/2021

Inches		Description of Horizon
0	TO 3	10YR 2/1 Very Dark Grey;Silt Loam;Granular;Very Friable
3	TO 33 DOP	10YR 5/8 Yellowish Brown;Silt Loam;Weak SBK,Friable Redox and Gleying @ 33"
_____	TO _____	
_____	TO _____	
_____	TO _____	
_____	TO _____	

PERCOLATION TEST:

Percolation Test Completed by: Jonathan T. Long Date: 6/24/22

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☐ Dry ☒ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10/30	0	0	0	0				
2	X		10/30	0	0	1/8	0				
3	X		10/30	3 1/2	3 1/2	3 1/2	3 1/8	3 1/8	3	2 7/8	
4	X		10/30	0	0	1/8	0				
5	X		10/30	1/8	1/8	1/8	0				
6	X		10/30	3 1/8	3 1/8	2 7/8	3				

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	0 "	240	20 "
2	0 "	240	20 "
3	2 7/8 "	10.4	20 "
4	0 "	240	20 "
5	0 "	240	20 "
6	3 "	10	20 "
TOTAL OF MIN / IN →		980.4	= 163.4
TOTAL NO. OF HOLES→		6	

Min / Inch

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S)_____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

DWD

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 5-21 South Subdivision Name Maloney

☒ SUITABLE Soil Type _____ Slope 5.5 % Depth to Limiting Zone 33" DOP Ave. Perc. Rate 58.36

☐ UNSUITABLE [ ] Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory Warner Date: 10/26/2021

Inches		Description of Horizon
0	TO 4	10YR 2/1 Very Dark Grey; Extremely Channery Silt Loam;Granular;Very Friable
4	TO 33 DOP	7.5YR 5/8 Strong Brown;Very Channery Loam;Weak SBK,Friable Redox and Gleying @ 33"
_____	TO _____	
_____	TO _____	
_____	TO _____	
_____	TO _____	

PERCOLATION TEST:

Percolation Test Completed by: Jonathan T. Long Date: 7/27/22

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☒ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10 / 30	1 1/2	1 1/4	1	7/8	3/4	7/8		
2	X		10 / 30	1 1/2	1 1/4	1 1/4	1 1/8	1			
3	X		10 / 30	1/8	1/8	1/8	1/8				
4	X		10 / 30	2 1/2	2 3/8	2 1/4	2 1/8	2	2		
5	X		10 / 30	4 1/4	4 1/8	4	3 7/8	3 3/4	2 7/8	2 3/4	2 3/4
6	X		10 / 30	2 7/8	2 1/2	2	1 3/4	1 3/4	1 1/2	1 1/2	

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	7/8 "	34.3	20 "
2	1 "	30	20 "
3	1/8 "	240	20 "
4	2 "	15	20 "
5	2 3/4 "	10.9	20 "
6	1 1/2 "	20	20 " Min / Inch
TOTAL OF MIN / IN →		350.2	= 58.36
TOTAL NO. OF HOLES→		6	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____

Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

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BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 5-21 North Subdivision Name Maloney

☒ SUITABLE Soil Type _____ Slope 5.5 % Depth to Limiting Zone 33" DOP Ave. Perc. Rate 105.88

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory Warner Date: 10/26/2021

Inches		Description of Horizon
0	TO 4	10YR 2/1 Very Dark Grey; Extremely Channery Silt Loam;Granular;Very Friable
4	TO 33 DOP	7.5YR 5/8 Strong Brown;Very Channery Loam;Weak SBK,Friable Redox and Gleying @ 33"
_____	TO _____	
_____	TO _____	
_____	TO _____	
_____	TO _____	

PERCOLATION TEST:

Percolation Test Completed by: Jonathan T. Long Date: 7/27/22

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☒ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10 / 30	5/8	5/8	3/8	1/4	1/8	1/8		
2	X		10 / 30	4	3 7/8	3 3/4	3 5/8	3 3/8	3 3/8	3 1/4	3 1/4
3	X		10 / 30	2 3/4	2 3/4	2 5/8	2 1/2				
4	X		10 / 30	5/8	1/4	1/4	1/8	1/4			
5	X		10 / 30	3 3/8	3 1/4	2 3/4	2 1/4	2 1/4	2 1/4	2 1/8	
6	X		10 / 30	1/8	1/8	1/4	1/8				

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	1/8 "	240	20 "
2	3 1/4 "	9.2	20 "
3	2 1/2 "	12	20 "
4	1/4 "	120	20 "
5	2 1/8 "	14.1	20 " Min
6	1/8 "	240	20 " Inch
TOTAL OF MIN / IN →		635.3	= 105.88
TOTAL NO. OF HOLES→		6	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 6-21 Subdivision Name Maloney

☒ SUITABLE Soil Type _____ Slope 5 % Depth to Limiting Zone 22" Ave. Perc. Rate _____

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory Warner Date: 10/26/2021

Inches		Description of Horizon
0	TO 4	10YR 2/1 Very Dark Grey;Silt Loam;Granular;Very Friable
4	TO 22	7.5YR 5/8 Strong Brown;Loam;Weak SBK,Friable Redox and Gleying @ 22
22	TO 33 DOP	7.5YR 5/8 Strong Brown;Loam;Weak SBK,Friable
_____	TO _____	
_____	TO _____	
_____	TO _____	

PERCOLATION TEST:

Percolation Test Completed by: _____ Date: _____

Weather Conditions: ☐ Below 40°F ☐ 40°F or above ☐ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☐ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1			10/30								
2			10/30								
3			10/30								
4			10/30								
5			10/30								
6			10/30								

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	_____"	_____	_____"
2	_____"	_____	_____"
3	_____"	_____	_____"
4	_____"	_____	_____"
5	_____"	_____	_____" Min
6	_____"	_____	_____" Inch
TOTAL OF MIN / IN →		_____ =	_____
TOTAL NO. OF HOLES→		_____	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

3850-FM-BCW0290A 4/2016

pennsylvania
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 7-21 Subdivision Name Maloney

☒ SUITABLE Soil Type _____ Slope 0 % Depth to Limiting Zone 21" Ave. Perc. Rate _____

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory Warner Date: 10/26/2021

Inches		Description of Horizon
0	TO 3	10YR 2/1 Very Dark Grey;Silt Loam;Granular;Very Friable
3	TO 12	10YR 7/8 Yellow;Loam;Weak SBK,Friable
12	TO 21	5YR 6/6 Reddish Yellow;Silt Loam;Weak SBK,Friable Redox @ 21
21	TO 27	5YR 6/6 Reddish Yellow;Silt Loam;Weak SBK,Friable
_____	TO _____	
_____	TO _____	

PERCOLATION TEST:

Percolation Test Completed by: _____ Date: _____

Weather Conditions: ☐ Below 40°F ☐ 40°F or above ☐ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☐ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1			10 / 30								
2			10 / 30								
3			10 / 30								
4			10 / 30								
5			10 / 30								
6			10 / 30								

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	_____ "	_____	_____ "
2	_____ "	_____	_____ "
3	_____ "	_____	_____ "
4	_____ "	_____	_____ "
5	_____ "	_____	_____ " Min
6	_____ "	_____	_____ " Inch
TOTAL OF MIN / IN →		_____ =	_____
TOTAL NO. OF HOLES→		_____	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 8-21 Subdivision Name Maloney

☒ SUITABLE Soil Type _____ Slope 2 % Depth to Limiting Zone 22" Ave. Perc. Rate _____

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory Warner Date: 10/26/2021

Inches		Description of Horizon
0	TO 3	10YR 2/1 Very Dark Grey;Silt Loam;Granular;Very Friable
3	TO 22	7.5YR 5/8 Strong Brown;Loam;Weak SBK,Friable
_____	TO _____	
_____	TO _____	
_____	TO _____	
_____	TO _____	

PERCOLATION TEST:

Percolation Test Completed by: _____ Date: _____

Weather Conditions: ☐ Below 40°F ☐ 40°F or above ☐ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☐ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1			10 / 30								
2			10 / 30								
3			10 / 30								
4			10 / 30								
5			10 / 30								
6			10 / 30								

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	"		"
2	"		"
3	"		"
4	"		"
5	"		" Min
6	"		" Inch
TOTAL OF MIN / IN →		=	
TOTAL NO. OF HOLES→			

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

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BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 9-21 Subdivision Name Maloney

☒ SUITABLE Soil Type _____ Slope 8 % Depth to Limiting Zone 35" DOP Ave. Perc. Rate 44.58

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory Warner Date: 10/26/2021

Inches		Description of Horizon
0	TO 3	10YR 2/1 Very Dark Grey;Silt Loam;Granular;Very Friable
3	TO 23	7.5YR 6/8 Reddish Yellow;Loam;MOD SBK,Friable
23	TO 35	7.5YR 6/8 Reddish Yellow;Very Channery Loam;MOD SBK,Friable Bedrock @ 35"
_____	TO _____	
_____	TO _____	
_____	TO _____	

PERCOLATION TEST:

Percolation Test Completed by: Jonathan T. Long Date: 6/22/22

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☐ Dry ☒ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10/30	1 3/4	1	7/8	7/8	3/4			
2	X		10/30	1	1	3/4	7/8				
3	X		10/30	2 1/4	2 1/4	2	1 1/8	1	1/2	1 1/8	5/8
4	X		10/30	1/4	1/4	1/4	1/4				
5		X	10/30	3 1/2	2 7/8	2 1/4	2 1/4	2	1 3/4	1 3/4	1 1/2
6	X		10/30	3 1/8	2 5/8	2 5/8	2 1/2	2 3/8	2	13/4	1 5/8

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	3/4 "	40	20 "
2	7/8 "	34.3	20 "
3	5/8 "	48	20 "
4	1/4 "	120	20 "
5	11/2 "	6.7	20 " Min
6	1 5/8 "	18.5	20 " Inch
TOTAL OF MIN / IN →		267.5	= 44.58
TOTAL NO. OF HOLES→		6	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

RKP

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 10-21 Subdivision Name Maloney

☒ SUITABLE Soil Type _____ Slope 8 % Depth to Limiting Zone 36" DOP Ave. Perc. Rate 37.02

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory Warner Date: 10/26/2021

Inches			Description of Horizon
0	TO	3	10YR 2/1 Very Dark Grey;Silt Loam;Granular;Very Friable
3	TO	20	7.5YR 6/8 Reddish Yellow;Loam;Weak SBK,Friable
20	TO	36	7.5YR 6/8 Reddish Yellow;Very Channery Loam;MOD SBK,Friable Bedrock @ 36"
	TO		
	TO		
	TO		

PERCOLATION TEST:

Percolation Test Completed by: Jonathan T. Long Date: 6/22/22

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☐ Dry ☒ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10/30	4	4	3 3/4	3	1 3/4	1 5/8	1 1/2	1 5/8
2	X		10/30	2 3/4	3 1/2	2 1/4	2 7/8	2 7/8	2 3/4	2 3/4	
3	X		10/30	3 3/8	2 7/8	2 1/2	2 3/8	2 3/8	2 1/4		
4	X		10/30	3/8	3/8	1/8	1/4				
5		X	10/30	1 1/8	1	1	7/8				
6	X		10/30	5/8	5/8	1/2	5/8				

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	1 5/8 "	18.5	20 "
2	2 3/4 "	10.9	20 "
3	2 1/4 "	13.3	20 "
4	1/4 "	120	20 "
5	7/8 "	11.4	20 " Min
6	5/8 "	48	20 " Inch
TOTAL OF MIN / IN →		222.1	= 37.02
TOTAL NO. OF HOLES→		6	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

BKO

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 11-21 Subdivision Name Maloney

☒ SUITABLE Soil Type _____ Slope 12 % Depth to Limiting Zone 68" Ave. Perc. Rate 170

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory M. Warner Date: 12/16/21

Inches			Description of Horizon
0	TO	3	10YR 2/2 Very Dark Brown;Silt Loam;Granular;Very Friable
3	TO	38	2.5 YR 4/3 Reddish Brown;Loam;Weak SBK;Friable
38	TO	68	7.5 YR 4/4 Brown;Gravelly Sandy Loam;Mod. SBK,Firm Bedrock @ 68"
	TO		
	TO		
	TO		

PERCOLATION TEST:

Percolation Test Completed by: Jonathan T. Long Date: 6/22/22

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☐ Dry ☒ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10/30	1/4	1/8	1/4	1/8				
2	X		10/30	1	1/2	1/2	1/2	1/2			
3	X		10/30	1/8	1/8	1/8	1/4				
4	X		10/30	1/2	1/4	1/4	1/4				
5	X		10/30	1/8	1/8	1/8	1/8				
6	X		10/30	1/8	1/8	1/8	1/8				

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	1/8 "	240	20 "
2	1/2 "	60	20 "
3	1/4 "	120	20 "
4	1/4 "	120	20 "
5	1/8 "	240	20 " Min
6	1/8 "	240	20 " / Inch
TOTAL OF MIN / IN →		1020	= 170
TOTAL NO. OF HOLES→		6	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____

Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

RKR

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres TP 12-21 Subdivision Name Maloney

☒ SUITABLE Soil Type _____ Slope 11.5 % Depth to Limiting Zone 38" Ave. Perc. Rate 133.33

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory M. Warner Date: 12/16/21

Inches			Description of Horizon
0	TO	3	10YR 2/2 Very Dark Brown;Silt Loam;Granular;Very Friable
3	TO	38	2.5 YR 4/4 Reddish Brown;Loam;Mod SBK;Friable
38	TO	42	7.5 YR 4/6 Strong Brown; Sandy Loam;Mod. SBK,Firm; Redox @ 38 "
42	TO	80	5 YR 4/4 Reddish Brown;Very Gravelly Sandy Loam;Mod SBK;Firm
	TO		
	TO		Fragipan Delveloped @ 42"

PERCOLATION TEST:

Percolation Test Completed by: Jonathan T. Long Date: 6/22/22

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☐ Dry ☒ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10/30	1/4	1/4	1/8	1/4				
2	X		10/30	1/2	1/4	1/4	1/4				
3	X		10/30	5/8	3/8	1/2	3/8				
4	X		10/30	1/4	1/8	1/8	1/8				
5	X		10/30	1/4	1/8	1/8	1/4				
6	X		10/30	3/8	1/8	1/4	1/4				

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	1/4 "	120	20 "
2	1/4 "	120	20 "
3	3/8 "	80	20 "
4	1/8 "	240	20 "
5	1/4 "	120	20 " Min
6	1/4 "	120	20 " Inch
TOTAL OF MIN / IN →		800	= 133.33
TOTAL NO. OF HOLES→		6	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres 4-22 South side Subdivision Name _____

■ SUITABLE Soil Type _____ Slope 7 % Depth to Limiting Zone 51 Ave. Perc. Rate 31.26

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:
Soils Description Completed by: Cory M. Warner Date: 10/26/22

Inches			Description of Horizon
0	TO	8	10 YR 3/4 Dark Yellowish Brown; Silt Loam; Granular; Very Friable
8	TO	43	10 YR 5/8 Yellowish Brown; Silty Clay Loam; Moderate SBK; Frim
43	TO	51	10 YR 8/4 Very Pale Brown; Gravely Silt; Weak SBK; Friable
	TO		
	TO		
	TO		

PERCOLATION TEST:
Percolation Test Completed by: Jonathan T. Long Date: 10/28/22

Weather Conditions: ■ Below 40°F ☐ 40°F or above ■ Dry ☐ Rain, Sleet, Snow (last 24 hours)
Soil Conditions: ☐ Wet ■ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1	X		10 / 30	3 1/4	3 1/4	3 1/4	3 1/8				
2	X		10 / 30	3 7/8	3 5/8	3 3/4	3 3/4				
3	X		10 / 30	2 5/8	2 1/4	2 1/4	2 1/4	2 1/4			
4	X		10 / 30	2 1/2	2 3/8	2 5/8	2 3/4	2 7/8	2 7/8		
5	X		10 / 30	1/4	1/4	1/4	1/4				
6	X		10 / 30	1 3/8	1 1/4	1 1/4	1 1/8				

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	3 1/8 "	9.6	20 "
2	3 3/4 "	8.0	20 "
3	2 1/4 "	13.3	20 "
4	3 "	10	20 "
5	1/4 "	120	20 " Min
6	1 1/8 "	26.7	20 " Inch
TOTAL OF MIN / IN →		187.6	= 31.26
TOTAL NO. OF HOLES→		6	

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

RWO

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres 1-22 South side Subdivision Name _____

☐ SUITABLE Soil Type _____ Slope _____% Depth to Limiting Zone 22 Ave. Perc. Rate _____

☒ UNSUITABLE ☒ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory M. Warner Date: 10/26/22

Inches			Description of Horizon
0	TO	8	10 YR 3/4 Dark Yellowish Brown; Silt Loam; Granular; Very Friable
8	TO	22	10 YR 3/4 Dark Yellowish Brown; Very Gravelly Silt Loam; Granular; Friable
22	TO	57	10 YR 5/8 Yellowish Brown; Silty Clay Loam; Mod SBK; Friable Redox @ 22"
	TO		
	TO		
	TO		Confirmation Pit had L.Z. of 15" due to redox

PERCOLATION TEST:

Percolation Test Completed by: _____ Date: _____

Weather Conditions: ☐ Below 40°F ☐ 40°F or above ☐ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☐ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1			10 / 30								
2			10 / 30								
3			10 / 30								
4			10 / 30								
5			10 / 30								
6			10 / 30								

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	"		"
2	"		"
3	"		"
4	"		"
5	"		" Min
6	"		" / Inch
TOTAL OF MIN / IN →		=	
TOTAL NO. OF HOLES→			

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

OVO

3850-FM-BCW0290A 4/2016

pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ONLOT DISPOSAL OF SEWAGE

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE SIDE

Application No. _____ Municipality Halfmoon County Centre

Site Location Halfmoon Acres 2-22 South side Subdivision Name _____

☐ SUITABLE Soil Type _____ Slope _____% Depth to Limiting Zone 15 Ave. Perc. Rate _____

■ UNSUITABLE ■ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments

☐ Perc. Rate ☐ Slope ☐ Unstabilized Fill ☐ Floodway ☐ Other _____

SOILS DESCRIPTION:

Soils Description Completed by: Cory M. Warner Date: 10/26/22

Inches			Description of Horizon
0	TO	4	10 YR 4/3 Brown; Silt Loam; Granular; Very Friable
4	TO	15	10 YR 5/6 Yellowish Brown; Silty Clay; Moderate SBK; Firm
15	TO	32	7.5 YR 4/4 Brown; Silty Clay; Weak SBK; Friable; Redox @15"
	TO		
	TO		
	TO		

PERCOLATION TEST:

Percolation Test Completed by: _____ Date: _____

Weather Conditions: ☐ Below 40°F ☐ 40°F or above ☐ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☐ Dry ☐ Frozen

Hole No.	*** Yes	*** No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7 Inches of drop	Reading No. 8: Inches of drop
1			10 / 30								
2			10 / 30								
3			10 / 30								
4			10 / 30								
5			10 / 30								
6			10 / 30								

***Water remaining in the hole at the end of the final 30-minute presoak? Yes, use 30-minute interval; No, use 10-minute interval.

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	"		"
2	"		"
3	"		"
4	"		"
5	"		" Min
6	"		" / Inch
TOTAL OF MIN / IN →		=	
TOTAL NO. OF HOLES→			

The information provided is the true and correct result of tests conducted by me, peformed under my personal supervision, or verified in a manner approved by DEP.

(S) _____
Sewage Enforcement Officer

☐ White - Local Agency ☐ Pink - Local DEP Office ☐ Yellow - Applicant

3850-FM-BCW0362A 6/2016

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code #:

SEWAGE FACILITIES PLANNING MODULE
COMPONENT 4A - MUNICIPAL PLANNING AGENCY REVIEW

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning module package and one copy of this *Planning Agency Review Component* should be sent to the local municipal planning agency for their comments.

SECTION A. PROJECT NAME (See Section A of instructions)

Project Name Halt Moon Acres Replot

SECTION B. REVIEW SCHEDULE (See Section B of instructions)

1. Date plan received by municipal planning agency 11/28/2022
2. Date review completed by agency _____

SECTION C. AGENCY REVIEW (See Section C of instructions)

Yes	No		
☒	☐	1.	Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, *et seq.*)? Centre Region Comprehensive Plan
☐	☒	2.	Is this proposal consistent with the comprehensive plan for land use? If no, describe the inconsistencies See attached memo
☒	☐	3.	Is this proposal consistent with the use, development, and protection of water resources? If no, describe the inconsistencies _____
☒	☐	4.	Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation? No specific policies related to prime ag land
☐	☒	5.	Does this project propose encroachments, obstructions, or dams that will affect wetlands? If yes, describe impacts _____
☐	☒	6.	Will any known historical or archaeological resources be impacted by this project? If yes, describe impacts _____
☐	☒	7.	Will any known endangered or threatened species of plant or animal be impacted by this project? If yes, describe impacts _____
☒	☐	8.	Is there a municipal zoning ordinance?
☒	☐	9.	Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____
☐	☒	10.	Does the proposal require a change or variance to an existing comprehensive plan or zoning ordinance?
☐	☒	11.	Have all applicable zoning approvals been obtained? Will be prior to recordation
☒	☐	12.	Is there a municipal subdivision and land development ordinance?

SECTION C. AGENCY REVIEW (continued)

Yes	No		
☑	☐	13.	Is this proposal consistent with the ordinance?
			If no, describe the inconsistencies
☑	☐	14.	Is this plan consistent with the municipal Official Sewage Facilities Plan?
			If no, describe the inconsistencies
☐	☑	15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?
			If yes, describe
☐	☑	16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
☐	☐		If yes, is the proposed waiver consistent with applicable ordinances?
			If no, describe the inconsistencies

17. Name, title and signature of planning agency staff member completing this section:

Name: Mark Boecker

Title: Principal Planner

Signature:

Date: 12/19/2022

Name of Municipal Planning Agency: Centre Regional Planning Agency

Address 2643 Gate way Dr Ste #4, State College, PA 16801

Telephone Number: 814-231-3050

SECTION D. ADDITIONAL COMMENTS (See Section D of instructions)

This component does not limit municipal planning agencies from making additional comments concerning the relevancy of the proposed plan to other plans or ordinances. If additional comments are needed, attach additional sheets.

The planning agency must complete this component within 60 days.

This component and any additional comments are to be returned to the applicant.

CRPA Centre Regional Planning Agency
2643 Gateway Drive, Suite #4 • State College, PA 16801 • Phone (814) 231-3050 • www.crcog.net

Date: December 19, 2022

To: Halfmoon Township Board of Supervisors

From: Mark Boeckel, AICP, Principal Planner

RE: Half Moon Acres Replot Component 2 Planning Module – Component 4A Supplemental Comment

The Centre Regional Planning Agency (CRPA) received the proposed Component 2 Planning Module for the Half Moon Acres Replot on November 23, 2022. Staff completed the municipal planning agency review of the module, known as Component 4A. In addition to a completed Component 4A form, the CRPA provides the following supplemental comment:

2. *Is this proposal consistent with the comprehensive plan for land use?*

The 2013 Centre Regional Comprehensive Plan identifies the future land use for these properties as Forest, Residential, and Mixed Use. The portion of the property on the northwest side of SR 550 is identified as a mixture of Residential and Forest, while the properties on the southeast side of SR 550 are all identified as Mixed Use. Mixed Use is defined within the plan as a mix of urban uses such as Commercial/Office, Industrial/Office, Residential, or Public/Institutional uses. Local zoning regulations supersede Comprehensive Plan designations, and the uses proposed by this plan (Agricultural with an accessory residential dwelling) are permitted within the district.

3850-FM-BCW0362B 6/2016

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code #:

SEWAGE FACILITIES PLANNING MODULE
COMPONENT 4B - COUNTY PLANNING AGENCY REVIEW

(or Planning Agency with Areawide Jurisdiction)

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning package and one copy of this *Planning Agency Review Component* should be sent to the county planning agency or planning agency with areawide jurisdiction for their comments.

SECTION A. PROJECT NAME (See Section A of instructions)

Project Name
HALF MOON ACRES REPLOT OF PARCELS 17-2-4 AND 17-2-4A

SECTION B. REVIEW SCHEDULE (See Section B of instructions)

1. Date plan received by county planning agency 12/1/2022
2. Date plan received by planning agency with areawide jurisdiction 11/23/2022
   Agency name CENTRE REGIONAL PLANNING AGENCY
3. Date review completed by agency 12/5/2022

SECTION C. AGENCY REVIEW (See Section C of instructions)

Yes	No		
☒	☐	1.	Is there a county or areawide comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101 *et seq.*)? CENTRE REGION COMPREHENSIVE PLAN 2013
☐	☒	2.	Is this proposal consistent with the comprehensive plan for land use? However, local zoning supersedes comp plan and proposed uses are permitted.
☒	☐	3.	Does this proposal meet the goals and objectives of the plan?
			If no, describe goals and objectives that are not met
☒	☐	4.	Is this proposal consistent with the use, development, and protection of water resources?
			If no, describe inconsistency
☒	☐	5.	Is this proposal consistent with the county or areawide comprehensive land use planning relative to Prime Agricultural Land Preservation?
			If no, describe inconsistencies:
☐	☒	6.	Does this project propose encroachments, obstructions, or dams that will affect wetlands?
			If yes, describe impact
☐	☒	7.	Will any known historical or archeological resources be impacted by this project?
			If yes, describe impacts
☐	☒	8.	Will any known endangered or threatened species of plant or animal be impacted by the development project?
			If yes, describe impacts
☐	☒	9.	Is there a county or areawide zoning ordinance?
☐ N/A	☐	10.	Does this proposal meet the zoning requirements of the ordinance?
			If no, describe inconsistencies

SECTION C. AGENCY REVIEW (continued)

Yes	No		
☐ N/A	☐	11.	Have all applicable zoning approvals been obtained?
☒	☐	12.	Is there a county or areawide subdivision and land development ordinance? LOCAL ORDINANCE SUPERCEDES COUNTY
☐ N/A	☐	13.	Does this proposal meet the requirements of the ordinance?
			If no, describe which requirements are not met _____
☒	☐	14.	Is this proposal consistent with the municipal Official Sewage Facilities Plan?
			If no, describe inconsistency _____
☐	☒	15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?
			If yes, describe _____
☐	☒	16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
☐ N/A	☐		If yes, is the proposed waiver consistent with applicable ordinances.
			If no, describe the inconsistencies _____
☐	☒	17.	Does the county have a stormwater management plan as required by the Stormwater Management Act? There is a Spring Creek Watershed Plan
☐ N/A	☐		If yes, will this project plan require the implementation of storm water management measures?

18. Name, Title and signature of person completing this section:

Name: LESLIE WARRINER

Title: SENIOR PLANNER

Signature: _____

Date: 12/19/2022

Name of County or Areawide Planning Agency: CENTRE REGIONAL PLANNING

Address: 2643 GATEWAY DRIVE, STATE COLLEGE PA 16801

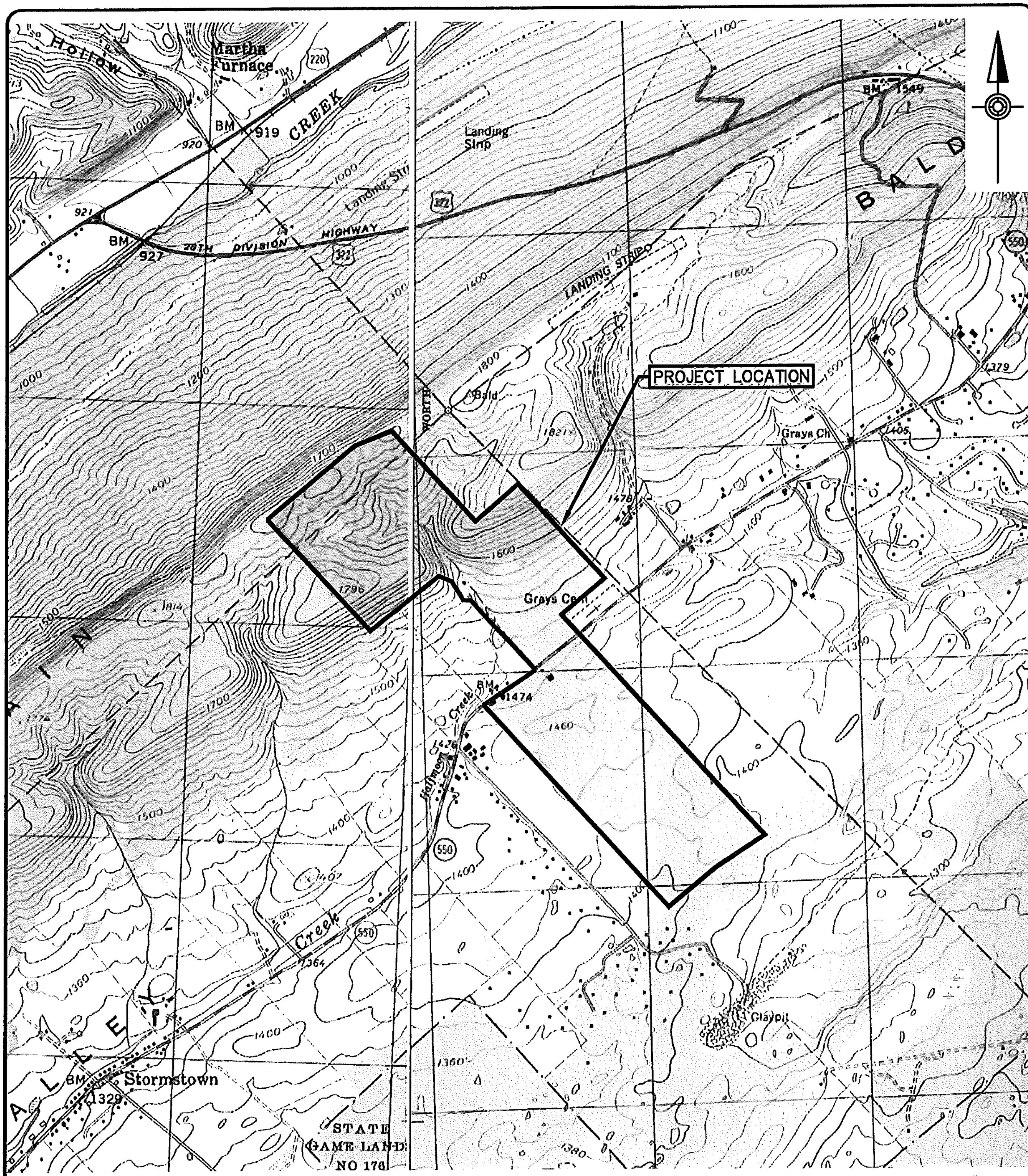
Telephone Number: 814-231-3050

SECTION D. ADDITIONAL COMMENTS (See Section D of instructions)

This component does not limit county planning agencies from making additional comments concerning the relevancy of the proposed plan to other plans or ordinances. If additional comments are needed, attach additional sheets.

The county planning agency must complete this component within 60 days.

This component and any additional comments are to be returned to the applicant.



JULIAN & PORT MATILDA QUARANGLES

SCALE: 1" = 2,000'

PROJECT IS LOCATED 16" LEFT AND 11" UP FROM THE BOTTOM RIGHT HAND CORNER OF THE JULIAN USGS QUADRANGLE MAP

HRG
Herbert, Rowland & Grubic, Inc.
Engineering & Related Services
AN EMPLOYEE-OWNED COMPANY

2568 Park Center Boulevard
State College, PA 16801
(814) 238-7117

Email - hrg@hrg-inc.com
www.hrg-inc.com

LOCATION MAP FOR HALFMOON ACRES

HALFMOON TOWNSHIP CENTRE COUNTY PENNSYLVANIA

PROJ. MGR. – SMK	
DESIGN–	
CADD–	MRV
CHECKED–	
SCALE–	1" = 2000'
DATE–	2023.01.16

DRAWING NO. 1

SHEET NO. 1 OF 1

PROJECT 8018.0425