



Catskill Watershed Corporation

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EMAIL COVER SHEET

To: SEPTIC COMMITTEE

ATTN: Tina Molé Thomas Snow Jim Ellis
Richard Parete George Hayne, Jr.
Alicia Terry Thomas Hoyt
Allen Hinkley Shilo Williams

CC: CWC Staff, John Schwartz, Michael Meyer, Matthew Giannetta, Thomas Stalter,
Gerson Tavaréz and Aaron Bennett

SUBJECT: SEPTIC COMMITTEE MEETING NOTICE

DATE: Tuesday, October 6, 2026

TIME: START: Immediately Following Wastewater

LOCATION: Catskill Watershed Corporation Building

Additional Instructions:

Please be advised that the Septic Committee meeting has been scheduled. Below please find the agenda and minutes from the previous meeting. If you have any questions or concerns, please contact Mitchell Hull.

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AGENDA

CATSKILL WATERSHED CORPORATION **SEPTIC COMMITTEE MEETING** **October 6, 2026 Following Wastewater**

- I. Call to Order
- II. Review of Last Meeting's Minutes
- III. Septic Programs: Take Offs Attached
 - a. Alto Costa Farms, LLC over \$30,000
 - b. Lindsey Bauer over \$30,000
 - c. James Bouton over \$30,000
 - d. Marta Castaing over \$30,000
 - e. John Fennell over \$30,000
 - f. Wayne Lopes over \$30,000
 - g. Stephen Lyman over \$30,000
 - h. Keri Moller over \$30,000
 - i. Marcelo Ribeiro over \$30,000
 - j. Timothy Strawderman over \$30,000
 - k. HD Rentals LLC (Pineville Trailer Park) over \$30,000
 - l. Kenard Bunkley additional cost
 - m. Joseph Ferrari additional cost
 - n. Clifford Freeman additional cost
 - o. Golden Woodland, LLC additional cost
 - p. Veronica Gomez additional cost
 - q. Cheryl Hofsdal additional cost
 - r. Dragos Ianau additional cost
 - s. Anne Kaufhold additional cost
 - t. David Melville additional cost
 - u. Sherri Reddick additional cost
 - v. John Reichle additional cost
 - w. Oscar Sierra additional cost
 - x. Jerome Sprecher additional cost
 - y. Nelson Weaver additional cost
 - z. Winnisook, Inc. (Fairservice Residence) additional cost
 - aa. Winnisook, Inc. (VanKleeck Residence) additional cost
 - bb. Jeffrey Knapp second time repair eligibility
 - cc. Shannon Lane second time repair eligibility
 - dd. Vincent LeNoir second time repair eligibility
 - ee. Nelta Miller second time repair eligibility
 - ff. Tracy Moore second time repair eligibility
 - gg. Norman Miller second time repair eligibility
 - hh. Saturnina Ramos second time repair eligibility
 - ii. Kimberly Rice-Bickel second time repair eligibility
 - jj. Axel Rudolph second time repair eligibility
 - kk. Constance Herndon Septic Appeal

- ll. Septic Maintenance
- mm. Septic Cluster
- nn. Septic Update
- oo. Other - Jeffrey Breigle Septic Appeal
- pp. Schedule for the next meeting November 3, 2026
- qq. Adjournment

**Catskill Watershed Corporation
Septic Committee Meeting
September 1, 2026
Draft Minutes**

Attendance:

Committee Members: Tina Molé (Director), Richard Parete (Director), Alicia Terry (Director), James Ellis (Director), George Haynes (Director), Jason Merwin (CWC), Shilo Williams (NYCDEP)

Others: Renee Alexander (CWC), Renee Antonette (CWC), Zach Baldwin-Way (CWC), Rena Baker (CWC by Zoom), Lindsay Ballard (CWC), Aaron Bennett (NYCDEP), Kyle Bredberg (New Paltz Oracle Reporter), Donald Brown (CWC), Nick Carbone (Delaware County Watershed Affairs by Zoom), Joseph Cetta (Director), Timothy Cox (CWC), Lindsay Drew (NYSDOS), Heidi Emrich (NYCDEP), Kyle Faraci (CWC), Jessica Fiedler (CWC), Matthew Gianetta (NYCDEP), Kristina Gutches (NYSDEC), Matthew Holbrook (CWC), Mitchell Hull (CWC), John Jacobson (CWC), Innes Kananof (Director), Lynn Kavanagh (CWC), Ken Kosinski (CWC by Zoom), Kristina Gutches (NYSDEC), John Kosier (Director), David Lane (CWC), Joan Lawrence-Bauer (The Walton Reporter), Michael Maloney (NYSDOH), James Martin (CWC), Christopher Matthews (Director), Michael Meyers (NYCDEP by Zoom), Dymitry Ostapishyn (NYCDEP by Zoom), Pat Palmer (NYSDOH), Barbara Puglisi (CWC), Diana Reyes (Brooklyn Graduate-Political Science), Nick Sadler (NYCDEP), John Schwartz (NYCDEP), Jeff Senterman (Director), James Sofranko (Director), Karen Stainbrook (NYSDEC), Thomas Stalter (NYCDEP by Zoom), Brian Sullivan (CWC), Morgan Tarbell (NYSDOH by Zoom), Gerson Tavarez (NYCDEP), Pauline Wanjugi (NYSDOH by Zoom), John Wimbush (NYSDOH by Zoom), Gemma Young (CWC)

- I. Alicia Terry called the meeting to order at 9:37 AM.
- II. Minutes from the August 2026 Committee Meeting were reviewed and approved as written.
- III. Septic Program:
 - A. **Wendy A. Buemi Trust (Charles Buemi) Over \$30,000.00:** Mr. Buemi's residence is located at 2417 Holmes Hollow Road, Delancey, New York 13752 in the Town of Delhi. CWC staff determined that his septic system is likely to fail. The engineer is Steele Brook Engineering PLLC. The contractor is A&M Excavating. Mr. Buemi signed into the program on October 27, 2025. His Design Application was received by NYCDEP on April 14, 2026, and deemed complete on April 29, 2026. His septic system design was recommended for NYCDEP Design Approval on June 3, 2026. Mr. Buemi's two-year deadline is October 27, 2027. His proposed septic system will serve a four-bedroom house. Major components of this system include two 1,250-gallon septic tanks, 341 linear feet of gravity pipe, two effluent filters, one distribution box, 391 cubic yards of absorption fill material, 300 linear feet of absorption trench, 130 linear feet of curtain drain, 70 linear feet of curtain drain outlet pipe, 130 linear feet of swale, three cleanouts, five risers, two additional riser sections, remove a rock wall, 15 linear feet of six-inch sleeve and site restoration. Three quotes were submitted to the homeowner for this project. They were \$66,910.00, \$67,095.00 and \$67,210.00. The lowest quote, submitted by A&M Excavating, is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee

recommended that a resolution be brought before the Board of Directors to reimburse Wendy A. Buemi Trust, in the amount not to exceed \$66,910.00 to build their septic system.

- B. Colin Kavleski Over \$30,000.00:** Mr. Kavleski's residence is located at 7429 State Route 55, Neversink, New York 12765 in the Town of Neversink. CWC staff determined that his septic system is likely to fail. The engineer is Thomas L. Ward, P.E. The contractor is B. Rogerson Excavating LLC. Mr. Kavleski signed into the program on July 2, 2025. His Design Application was received by NYCDEP on May 19, 2026, and deemed complete on June 30, 2026. His septic system design was recommended for NYCDEP Design Approval on July 23, 2026. Mr. Kavleski's two-year deadline is July 2, 2027. His proposed septic system will serve a three-bedroom house. Major components of this system include a 1,000-gallon septic tank, a pump chamber, 23 linear feet of gravity pipe, 97 linear feet of force main, an effluent filter, one distribution box, 100 cubic yards of absorption fill material, 240 square feet of Eljen units, eight cubic yards of C-33 sand, 113 linear feet of curtain drain, 30 linear feet of curtain drain outlet pipe, 85 linear feet of swale, one cleanout and site restoration. Three quotes were submitted to the homeowner. They were \$42,097.75, \$44,050.00 and \$45,417.00. The lowest quote, submitted by B. Rogerson Excavating LLC, is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Colin Kavleski in the amount not to exceed \$42,097.75 to build his septic system.
- C. Charles Lynch Over \$30,000.00:** Mr. Lynch's residence is located at 23 Delaney Drive, Neversink, New York 12765 in the Town of Neversink. CWC staff determined that his septic system is failing. The engineer is Thomas L. Ward, P.E. The contractor is B. Rogerson Excavating LLC. Mr. Lynch signed into the program on June 20, 2025. His Design Application was received by NYCDEP on April 28, 2026, and deemed complete on May 21, 2026. His septic system design was recommended for NYCDEP Design Approval on June 15, 2026. Mr. Lynch's two-year deadline is June 20, 2027. His proposed septic system will serve a three-bedroom house. Major components of this system include a 1,000-gallon septic tank, 87 linear feet of gravity pipe, an effluent filter, one distribution box, 150 cubic yards of absorption fill material, 396 square feet of Eljen units, 15 cubic yards of C-33 sand, 100 linear feet of curtain drain, 35 linear feet of curtain drain outlet pipe, one cleanout, remove three large trees and site restoration. Three quotes were submitted to the homeowner for this project. They were \$39,049.68, \$43,501.00 and \$43,730.00. The lowest quote, submitted by B. Rogerson Excavating LLC, is within 10% pf the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Charles Lynch in the amount not to exceed \$39,049.68 to build his septic system.
- D. Sara Minaudo Over \$30,000.00:** Ms. Minaudo's residence is located at 36 Hylan Road, Hunter, New York 12442 in the Town of Hunter. CWC staff determined that her septic system is likely to fail. The engineer is Lamont Engineers. The contractor is Blue Mountain Excavation LLC. Ms. Minaudo signed into the program on April 15, 2025. Her Design Application was received by NYCDEP on October 10, 2025, and deemed complete on January 2, 2026. Her septic system design was recommended for NYCDEP Design Approval on March 2, 2026. Ms. Minaudo's two-year deadline is

April 15, 2027. Her proposed septic system will serve a one-bedroom house. Major components of this system include a 1,000-gallon septic tank, one pump chamber, 15 linear feet of gravity pipe, 245 linear feet of force main, an effluent filter, one distribution box, 318 cubic yards of absorption fill material, 200 linear feet of absorption trench, remove brush and small trees and site restoration. Three quotes were submitted to the homeowner for this project. They were \$55,368.59, \$57,622.05 and \$61,328.19. The lowest quote, submitted by Blue Mountain Excavation LLC, is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Sara Minaudo in the amount not to exceed \$55,368.59 to build her septic system.

- E. HD Rentals LLC (Pineville Trailer Park) Over \$30,000.00:** The Pineville Trailer Park is located at 25033 State Highway 10, Walton, New York 13856 in the Town of Walton. This project is eligible for 100% reimbursement under the Expanded Septic Program. CWC staff determined that their septic systems for trailers #1, 2 and 14 are likely to fail. The engineer is Steele Brook Engineering PLLC. The contractor is Louie Banker Contracting. Phillip Hanley, Managing Member, signed into the program on May 15, 2025. His septic system design was recommended for NYCDEP Design Approval on May 5, 2026. The two-year project deadline is May 15, 2027. The proposed septic system will serve three trailers with a total of eight bedrooms. Major components of this system include 80 linear feet of Schedule 80 gravity pipe, one distribution box, 750 linear feet of Presby pipe, 65 cubic yards of C-33 sand, 50 linear feet of vent pipe, cap an existing sewer pipe, four boulders to protect leach field, spread and reclaim excess material, pump the existing 2,000-gallon septic tank, decommission a cesspool and site restoration. Three quotes were submitted to the owner for this project. They were \$51,300.00, \$55,476.00 and \$66,100.00. The lowest quote, submitted by Louie Banker Contracting, is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse HD Rentals LLC in the amount not to exceed \$51,300.00 to build their septic system.
- F. Rose Mountain Cottages Clubhouse Over \$30,000.00:** The Rose Mountain Cottages Clubhouse is located at 120 Creekside Drive, Shandaken, New York 12480 in the Town of Shandaken. This project is eligible for 100% reimbursement under the Expanded Septic Program. CWC staff determined that the septic system is likely to fail. The engineer is Joseph M. Boek, P.E. The contractor is Brian Williams. Andrew Gebert, owner, signed into the program on March 2, 2026. The septic system design was recommended for NYCDEP Design Approval on April 28, 2026. The two-year project deadline is March 2, 2028. The proposed septic system will serve one bedroom plus laundry service for cottages and a recreation gathering area for guests. The design flow of the proposed septic system will be 330 gallons per day. Major components of this system include a 1,000-gallon septic tank, one pump chamber, 66 linear feet of gravity pipe, 88 linear feet of force main, an effluent filter, one distribution box, 120 cubic yards of absorption fill material, 180 square feet of Eljen units, six cubic yards of C-33 sand, 100 linear feet of swale, three cleanouts, 30 linear feet of four-inch sleeve, spread and reclaim tank spoils, excavate out a retaining wall and site restoration. Three quotes were submitted to the owner. They were \$41,926.60, \$43,146.86 and \$43,593.75. The lowest quote,

submitted by Brian Williams, is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Rose Mountain Cottages in the amount not to exceed \$41,926.60 to build their septic system.

- G. Valleywood Acres, LLC Over \$30,000.00:** is located at 87 Creekside Drive and 91, 102, 105 and 108 Fire House Road, Big Indian, New York 12410 in the Town of Shandaken. This project is eligible for 100% reimbursement under the Expanded Septic Program. CWC staff determined that septic systems for all buildings are likely to fail. The engineer is Steele Brook Engineering PLLC. The contractor is TNT Landscaping & Excavating. Raj Sakthi, Managing Member, signed into the program on August 7, 2026. The septic system design was recommended for NYCDEP Design Approval on August 4, 2026. The two-year project deadline is August 7, 2028. The proposed septic system will serve a complex of rental units and cottages. The main house has 11 bedrooms. The "Blue House" has 5 bedrooms. The "Brown House" has 3 bedrooms. The "Red House," has six bedrooms. The caretaker's house has 2 bedrooms. A pre-bid meeting was held on August 7, 2026. It was attended by the owner; three contractors who submitted bids; Ed McCarthy, the engineer; Scott Benson and Joe Murphy from Ulster County Department of Health; John Jacobson and Brian Sullivan from CWC. The engineer reviewed details of construction. It is a pressure-dosed system with suspended pipes inside of infiltrators. Major components include two 1,000-gallon septic tanks, , one 1,500-gallon septic tank, a 2,000-gallon septic tank, one 2,500-gallon septic tank, one 500-gallon H2O grease trap, two H2O 1,250-gallon alternating pump chambers, 775 linear feet of gravity pipe, 75 linear feet of two-inch force main 171 linear feet of four-inch Schedule 80 pipe, replumb for the grease trap, five concrete blocks, five effluent filters, interior plumbing modification to combine pipes, 2,700 linear feet of Infiltrators, 60 linear feet of three-inch boring, 35 linear feet of six-inch boring, excavate for the boring, 2,860 linear feet of one and a half-inch pipe, 40 one and a half-inch clean outs, 40 one and a half-inch globe valves, 11 four-inch cleanouts, four driveway clean outs, 38 cast iron risers, spread and reclaim excess material, multiple fittings, remove one tree and one stump, saw cut pavement, rock hound disturbed areas and site restoration. Three quotes were submitted to the owner. They were \$371,799.00, \$375,231.04 and \$382,314.21. The estimates include \$4,200.00 total costs for two spare pumps to be kept on site. CWC will not reimburse those costs. $\$371,799.00 - \$4,200.00 = \$367,599.00$. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Valleywood Acres LLC in the amount not to exceed \$367,599.00 to build their septic system.
- H. James DePaiva Additional Costs:** Mr. DePaiva's residence is located at 87 DiBenedetto Road, Fleischmanns, New York 12430 in the Town of Middletown. The engineer is John Bolger, P.E. The contractor is Donald Allen Excavating. This project was previously approved for \$45,214.00. During construction it was determined that a larger pump and slide rails would be needed. An additional 200 linear feet of 10-guage wire was needed to connect the pump to the control panel. The contractor has requested \$2,901.00 for the added work. Staff disallowed tax on the invoice and believe \$2,300.85 is reasonable and justified. The total project cost will be \$47,514.85. The Committee recommended that a resolution be brought before the Board of Directors to reimburse James DePaiva in the amount not to exceed \$2,300.85 for additional costs to build his septic system.

- I. **Muhammad Faisal Additional Costs Over \$30,000.00:** Ms. Faisal's residence is located at 167 Mountain Brook Road, Tannersville, New York 12485 in the Town of Hunter. The engineer is John Bolger, P.E. The contractor is Peters Welding & Fabrication LLC. This project was previously approved for \$64,288.40. The contractor had planned to connect the pump to the house electrical panel, but the homeowner used up all breaker space before construction began. An additional 200 linear feet of wiring had to be used to cross the yard to get electric to the pump. An added 30 cubic yards of absorption fill material with a two-hour haul time was needed to complete the system because of variations in topography. The fill had to be bucketed to the absorption field. The contractor has requested \$2,857.80 for the added work. The total project cost will be \$67,146.20. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Muhammad Faisal in the amount not to exceed \$2,857.80 for additional costs to build his septic system.
- J. **Jonathan Kilday Additional Costs Over \$30,000.00:** Mr. Kilday's residence is located at 195 Carman Road, Delancey, New York 13752 in the Town of Hamden. The engineer is Steele Brook Engineering PLLC. The contractor is LaFever Excavating, Inc. This project was previously approved for \$34,795.00. After the system was complete, the owner experienced a frozen force main all winter. The force main runs through the center of a stone and earthen bridge crossing a stream. Frost penetrated even though the line was insulated to the engineer's specs. CWC staff, the engineer, contractor and owner met on August 4, 2026, at the site to determine the best solution to the issue. The engineer recommended installing a vault tank with a bigger check valve to allow faster drain back. The bridge will be raised with 12-18 inches more fill and insulation over the pipe. A new Field Report was attached to this agenda item including photographs of the site. The contractor has requested \$23,985.00 for the added work. The total project cost will be \$58,780.00. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Jonathan Kilday in the amount not to exceed \$23,985.00 for additional costs to build his septic system,
- K. **Edison Lopez Additional Costs:** Mr. Lopez's residence is located at 12293 Route 23A, Prattsville, New York 13752 in the Town of Lexington. The engineer is Praetorius & Conrad, P.C. The contractor is G.R. Excavation, Inc. This project was previously approved for \$32,130.96. The contractor discovered during construction that the sewer line was encased in concrete. A section approximately 10 feet long had to be jackhammered. Partial removal of a stonewall was necessary. The contractor has requested \$2,000.00 for the added work. The total project cost will be \$34,130.96. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Edison Lopez in the amount not to exceed \$2,000.00 for additional costs to build his septic system,
- L. **Winnisook Inc. (Waldin & Blair Houses) Additional Costs:** The Winnisook Club Waldin and Blair Houses are located at 7 and 29 Winnisook Club Road, Oliveria, New York 12410. The engineer is Rex Sanford, P.E. The contractor is Mammoth Excavation, Inc. This project was previously approved for \$94,504.82. Rock was encountered during construction. Fourteen hours of hammering was required to attain proper depths for the tanks. Broken rock was spread on the site. Additional

restoration was required to cover it. The contractor has requested \$9,512.50 for the added work. The total project cost will be \$104,017.32. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Winnisook Inc. in the amount not to exceed \$9,512.50 for additional costs to build their septic system,

M. Patricia Strahl Additional Cost: Ms. Strahl's residence is located at 34 Black Alder Road, Shokan, New York 12481 in the Town of Olive. The engineer is Joseph M. Boek, P.E. The contractor is Eberhardt Excavation, LLC. This project is a Second Time Repair within the Managed Area. It was previously approved for \$23,314.96. Native material was not suitable for backfill. High groundwater conditions were encountered during construction. Thirty-six cubic yards of absorption fill material were required for backfill, 24 cubic yards of clay, additional haul time, excess material was spread and reclaimed, additional restoration, de-watering, core drill a Town catch basin, install and grout a curtain drainpipe, Bentonite seal the septic tank inlet, outlet and pump chamber, 102 linear feet of curtain drain and an electrical sub panel. The contractor has requested \$11,833.05 for the added work. This amount appears to be reasonable and justified. The total project cost will be \$35,148.01. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Patricia Strahl in the amount not to exceed \$11,833.05 for additional costs to build his septic system.

N. George Hewitt Second Time Repair: Mr. Hewitt's residence is in the Town of Jewett, Section, Block and Lot number 114.00-2-2. This project was paid for in 2016 under the Priority 9 Program. Ground water is infiltrating the pump chamber. The peat filter inspection port is filled with water indicating that the pods no longer function properly. This might be caused by bad absorption fill material or infiltration. The homeowner has had maintenance pump outs done in 2020 and 2024. The owner had a maintenance pump out done in 2026. The Committee recommended that a resolution be brought before the Board of Directors to approve George Hewitt for a second time repair.

O. Dawn Kuzma Second Time Repair: Ms. Kuzma's residence is in the Town of Conesville, Section, Block and Lot number 202-1-26. This project was paid for in 2012 under the Septic Hardship Program. The pump failed and has been replaced. A leak coming from the pump chamber outlet needs to be sealed. The owner had maintenance pump outs in 2017 and 2023. The Committee recommended that a resolution be brought before the Board of Directors to approve Dawn Kuzma for a second time repair.

P. Ellen Lasoff Second Time Repair: Ms. Lasoff's residence is in the Town of Delhi, Section, Block and Lot number 103-1-49. This project was paid for in 2010 under the Priority 6 Program. The pump failed and has been replaced. The owner had maintenance pump outs done in 2013 and 2023. The Committee recommended that a resolution be brought before the Board of Directors to approve Ellen Lasoff for a second time repair.

Q. Gerald Wright Second Time Repair: Mr. Wright's residence is in the Town of Stamford, Section, Block and Lot number 88-1-21.52. This project was paid for in 2010 under the Priority 6 Program. Mr. Wright was approved for a second time

repair in 2025 to replace the pump. It has been determined that all pump chamber components need replacement. This is being brought back before the Committee because the first approval was specifically for a pump. The owner had maintenance pump outs done in 2013 and 2025. The Committee recommended that a resolution be brought before the Board of Directors to approve Gerald Wright for a second time repair.

R. Richard Young Second Time Repair: Mr. Young's residence is in the Town of Lexington, Section, Block and Lot number 145.00-2-2. This project was paid for in 2012 under the Priority 7 Program. Sewage is surfacing in the absorption field. The system needs replacement. The owner had a maintenance pump out done in 2023. The Committee recommended that a resolution be brought before the Board of Directors to approve Richard Young for a second time repair.

S. Construction Supervision Fee Request: Doug Strait is appealing the denial of construction supervision fees for the septic system he designed at his home. Tim Cox cited the Septic Program Rules, 2:01:03. Eligible Costs. 3, c. reads in part, "...Administrative work done by the engineer or construction observation by the engineer, if the engineer, or an entity owned, controlled by or employing the engineer, is also constructing the repair or replacement, shall also be ineligible, unless the contractor constructing the repair or replacement is also the participating homeowner seeking reimbursement."

This rule was written years ago when an engineer owned a construction company and was building septic systems funded by the program. Doug Strait went through all proper channels. His design is a modified conventional system. The construction supervision fee is \$1,150.00.

Shilo Williams recused herself.

The Committee recommended reimbursing Doug Strait in the amount not to exceed \$1,150.00 for construction supervision fees to build his septic system.

T. Septic Maintenance: Mitch reported that pump out costs were reimbursed to 56 property owners last month. A total of 443 pump out costs have been reimbursed this year.

U. Septic Cluster: No report.

V. Septic Update: Mitch Hull reported that 23 septic system repair costs were reimbursed to property owners last month. Property owners have been reimbursed for 125 septic system repair costs in 2026.

W. Other: Shilo Williams noted the new photo log included in the agenda. This is a new field report format. It is part of an effort to improve Septic Program processes.

X. The next Septic Committee Meeting was scheduled for October 6, 2026.

VI. The meeting adjourned at 10:12 AM.

Alto Costa Farms, LLC (Arlene Miller) Over \$30,000:

Address: 3381 Whiskey Hollow Rd., Hobart, NY 13788

Town: Harpersfield

Bedrooms: 3

Engineer: Headwaters Engineering PLLC

Contractor: Boyle Excavating

Sign In Date: 8/12/26

Design Application Received By DEP: 7/24/26

Design Application Deemed Complete: 8/11/26

Date Recommended for DEP Design Approval: 9/2/26

2-Year Deadline: 8/12/28

The major components will include one 1,000-gallon septic tank, a syphon chamber, 153 l.f. of gravity pipe, one effluent filter, one distribution box, 280 c.y. of absorption fill material, 210 l.f. of absorption trench, 120 l.f. of curtain drain, 90 l.f. of curtain drain outlet pipe, 240 l.f. of access rd., one tree to be removed, and site restoration. The homeowner received a quote for \$57,445.17 x 60% = \$34,467.10. The quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$34,467.10.

Cost Estimate

Homeowner: Arlene Miller
SBL #: 39-1-3.11
Designer: Ben Dates
Completed By: Mitch Hull
Date: 9/2/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	1	\$4,837.05	\$4,837.05
4	Gravity Piping 4" PVC	LF	153	\$13.36	\$2,044.08
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	280	\$28.85	\$8,078.00
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1.5 Hr. Haul Time	CY	280	\$15.75	\$4,410.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	210	\$15.76	\$3,309.60
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	120	\$21.10	\$2,532.00
20	Curtain Drain Outlet Pipe	LF	90	\$11.52	\$1,036.80
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	14180	\$1.04	\$14,747.20
23	4" Clean Out	EA	2	\$185.00	\$370.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	240	\$20.70	\$4,968.00
29	one tree to be removed		1	\$2,250.00	\$2,250.00
30			0	\$0.00	\$0.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$55,032.49
				ADD 10%	\$60,535.74

Lindsey Bauer Over \$30,000:

Address: 1265-1267 Oliverea Rd., Big Indian, NY 12410

Town: Shandaken

Bedrooms: 4

Engineer: Rex Sanford P.E.

Contractor: Estes Plumbing & Excavation

Sign In Date: 6/25/26

Design Application Received By DEP: 9/1/26

Design Application Deemed Complete: 9/14/26

Date Recommended for DEP Design Approval: 9/14/26

2-Year Deadline: 6/25/28

The major components will include one 1,250-gallon septic tank, 73 l.f. of gravity pipe, three distribution boxes, 300 l.f. of Presby pipe, 35 c.y. of C-33 sand, 58 l.f. of vent pipe, 167 l.f. of swale, 140 l.f. of access rd., spread & reclaim excess material, 40 trees to be removed, and site restoration. The homeowner received three quotes. They were \$45,250.00, \$47,740.88, and \$49,185.54. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$45,250.00.

Cost Estimate

Homeowner: Lindsey Bauer
SBL #: 23-2-9
Designer: Rex Sanford
Completed By: Mitch Hull
Date: 9/8/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	0	\$4,917.79	\$0.00
	~~1,250 Gallon Tank With System~~	~~EA~~	~~1~~	~~\$5,371.95~~	~~\$5,371.95~~
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber poly	EA	0	\$11,496.01	\$0.00
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	73	\$13.36	\$975.28
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	3	\$879.97	\$2,639.91
7	Absorption Fill Material	CY	6	\$28.85	\$173.10
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	2 Hr. Haul Time	CY	41	\$21.00	\$861.00
10	topsoil haul time	EA	35	\$21.00	\$735.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	300	\$30.77	\$9,231.00
18	NYSDOT C-33 Sand (Presby)	CY	35	\$48.23	\$1,688.05
19	Vent Pipe	LF	58	\$11.52	\$668.16
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	167	\$7.39	\$1,234.13
22	Topsoil, Seed & Mulch	SF	8250	\$1.04	\$8,580.00
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	2	\$184.00	\$368.00
26	Additional Riser Section	EA	1	\$98.00	\$98.00
27	Access Road	LF	140	\$20.70	\$2,898.00
29	spread & reclaim excess material		1	\$2,100.00	\$2,100.00
30	40 trees to be removed		1	\$4,000.00	\$4,000.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$41,806.58
				ADD 10%	\$45,987.24

James Bouton Over \$30,000:

Address: 2600 Vega Mountain Rd., Roxbury, NY 12474

Town: Roxbury

Bedrooms: 3

Engineer: John Bolger P.E.

Contractor: Jim Peters Excavating

Sign In Date: 3/4/26

Design Application Received By DEP: 8/22/25

Design Application Deemed Complete: 9/3/25

Date Recommended for DEP Design Approval: 6/10/26

2-Year Deadline: 3/4/28

The major components will include one 1,000-gallon septic tank, a syphon chamber, 88 l.f. of gravity pipe, one effluent filter, one distribution box, 190 c.y. of absorption fill material, 240 l.f. of absorption trench, 93 l.f. of curtain drain, 52 l.f. of curtain drain outlet pipe, 93 l.f. of swale, 280 l.f. of access rd., bucket material, spread & reclaim tank spoils, and site restoration. The homeowner received three quotes. They were \$68,798.50, \$69,665.20, and \$70,082.10. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$68,798.50.

Cost Estimate

Homeowner: James Bouton
 SBL #: 179-1-41.13
 Designer: John Bolger
 Completed By: Mitch Hull
 Date: 7/21/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	1	\$4,837.05	\$4,837.05
4	Gravity Piping 4" PVC	LF	88	\$13.36	\$1,175.68
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	190	\$28.85	\$5,481.50
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1.5 Hr. Haul Time	CY	190	\$21.00	\$3,990.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	240	\$15.76	\$3,782.40
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	93	\$21.10	\$1,962.30
20	Curtain Drain Outlet Pipe	LF	52	\$11.52	\$599.04
21	Swale	LF	93	\$7.39	\$687.27
22	Topsoil, Seed & Mulch	SF	11225	\$1.04	\$11,674.00
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	280	\$20.70	\$5,796.00
29	20 trees to be removed		1	\$10,500.00	\$10,500.00
30	Bucket material		30	\$150.00	\$4,500.00
31	Spread & reclaim spoils		1	\$1,250.00	\$1,250.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$62,870.00
				ADD 10%	\$69,157.00

NOTES

1. 4" sched. 40 pvc @ $\frac{1}{4}$ " per foot. min. from existing house to septic tank.
2. 1000 Gal. tank set level and as per Manufacture Specs.
3. 4" sched. 40 pvc set at 1% min. between Septic tank and Dosing tank
4. 300 gallon dosing tank
5. 4" sched. 40 pvc set at 1% min. between Dosing tank & D-Box.
6. Add 6" Non-Perforated Rigid Conduit Sleeve Over the 4" Sewer Line where it crosses the Curtain Drain.
7. 7 Hole Concrete Distribution box
8. Footprint of fill material with distribution laterals
* 3 bedroom house with a perc. rate of 5-20 min. max.
w/daily flow of 330 gal. per day = 236' of laterals min.
use 6 laterals at 40' each = 240' of laterals.
9. Basal Area = Daily flow/.2=sf
330/.2=1650 sf min.
Basal Area Designed at 45' x 37'=1665sf
10. Taper of fill material ~ 3/1 pitch ~ top 10' min., sides 15' min., bottom 20' min.
11. Curtain Drain with Swale 20' min of toe of taper of basal area
12. Curtain Drain outlet pipe 4" solid pvc to daylight w/ screen cap

CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS

APPROVES

SEE FIRST PAGE FOR DATE AND SIGNATURE

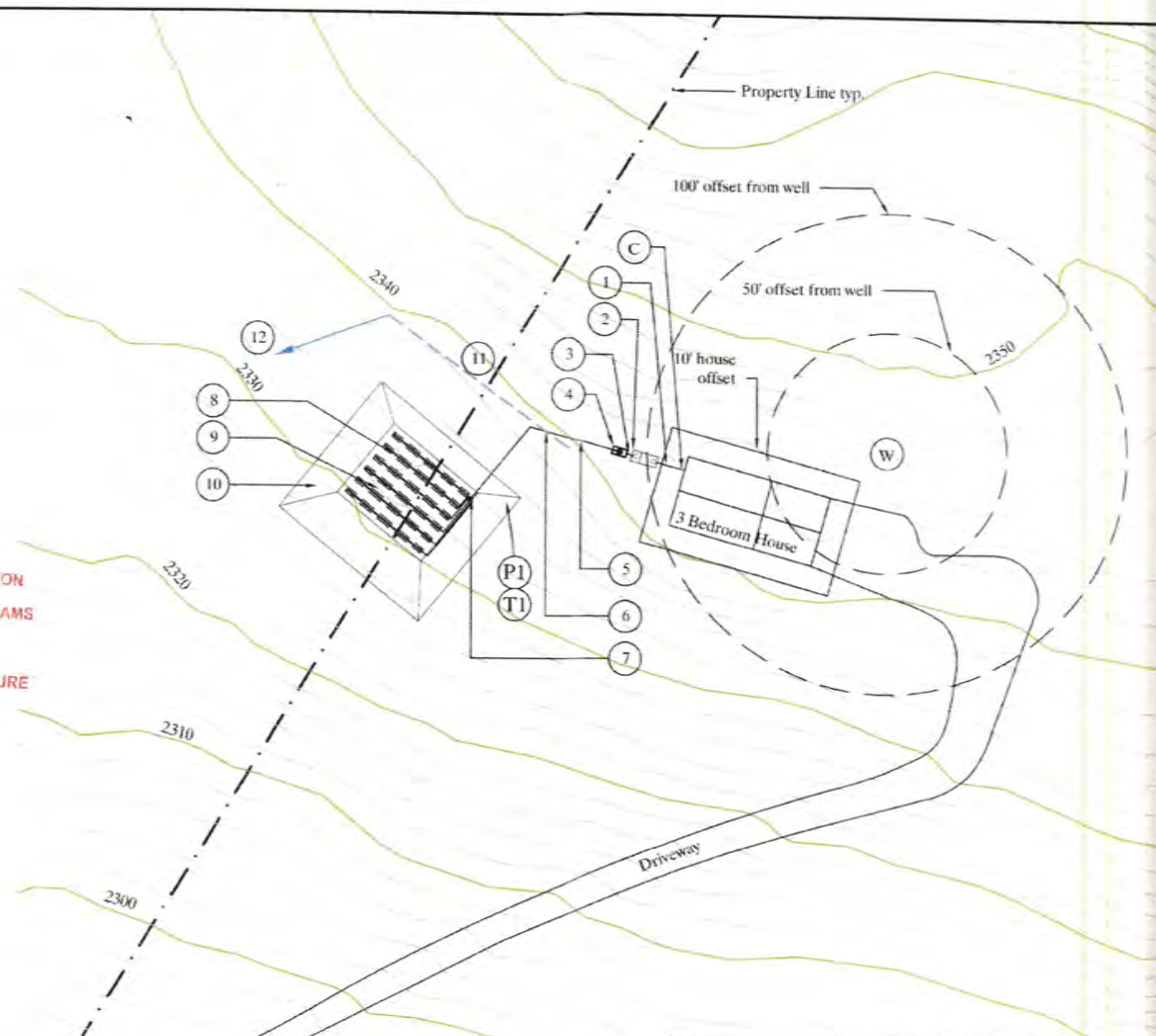


TABLE 2
SEPARATION DISTANCES FROM WASTE WATER SYSTEM COMPONENTS
(IN FEET)

System Components	Well or Suction Line (ft.)	To Stream, Lake, watercourse (ft), or Wetland	Dwelling	Property Line
House sewer (water-tight joints)	25 if cast iron sewer pipe, 50 otherwise	25	3	10
Septic tank or water-tight ETU	50	50	10	10
Effluent line to distribution box	50	50	10	10
Distribution box	250	100	20	10
Absorption field (c/d)	500 (a)	100	20	10
Seepage pond	500 (a)	100	20	10
Raised or Mound system (c/d)	1000 (a)	100	20	10
Intermittent Sand Filter (d)	1000 (a)(f)	1000 (f)	20	10
Non-Waterborne Systems with effluent residual disposal	50	50	20	10
Non-Waterborne Systems with effluent discharge	100	50	20	10

NOTES:

(a) When wastewater treatment systems are located up- and on the direct path of surface water drainage to a well, the closest part of the treatment system shall be at least 200 feet away from the well.

(b) Mean high water mark.

(c) For all systems involving the placement of fill material, separation distances are measured from the toe of the slope of the fill.

(d) Separation distances shall also be measured from the edge of the designated additional absorbent area as described in Section 75-A.4 (a)(5).

(e) The closest part of the wastewater treatment system shall be located at least 10 feet from any water service line to a public water supply main, public water service line or residential well water service line.

(f) When sand filters are designed to be water-tight and collect all effluent, the separation distances can be reduced to 50 feet.

(g) The listed water well separation distances from contaminant sources shall be increased by 50% whenever aquifer water enters the water well at less than 50 feet below grade. If a 50% increase cannot be achieved, then the greatest possible increase in separation distance shall be provided with such additional measures as needed to prevent contamination.

(W) = Well

(C) = Clean Out

Curtain Drain Key

--- = Perforated Pipe

— = Solid Pipe



Site Plan

SCALE 1"=50'

This is not a survey, Property lines are approximate based on information from owner, tax map, or survey by others.

Bouton
2600 Vega Mountain Rd.
Roxbury, NY 12474
Tax I.D.# 179.-1-41.13

DATE: 08-11-25

DRAWN BY: JS/DS

John Bolger, PE
P.O. Box 68
Roxbury, NY 12474
607-643-1538

Stringer's Drafting
33 Ridge Road Spur
Roxbury, NY 12474
607-326-7136

Marta Castaing Over \$30,000:

Address: 3 Quarry Rd., Shandaken, NY 12480

Town: Shandaken

Bedrooms: 3

Engineer: Rex Sanford P.E.

Contractor: Sam I Am Excavation & Tree Service

Sign In Date: 3/20/26

Design Application Received By DEP: 9/4/26

Design Application Deemed Complete: 9/14/26

Date Recommended for DEP Design Approval: 9/14/26

2-Year Deadline: 3/20/28

The major components will include one 1,000-gallon septic tank, 92 l.f. of gravity pipe, one effluent filter, one distribution box, 240 c.y. of absorption fill material, 240 l.f. of absorption trench, 200 l.f. of curtain drain, 35 l.f. of curtain drain outlet pipe, 145 l.f. of access rd., 16 trees to be removed, temp culvert, set tank with a large excavator, and site restoration. The homeowner received a quote for $\$56,511.91 \times 60\% = \$33,907.15$. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$33,907.15.

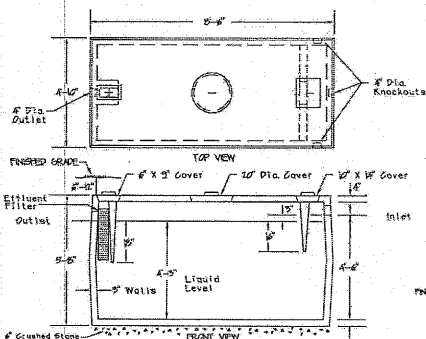
Cost Estimate

Homeowner: Marta Castaing
SBL #: 13.5-1-38
Designer: Rex Sanford
Completed By: Mitch Hull
Date: 9/16/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

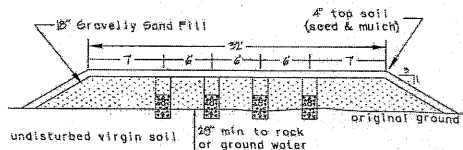
Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber poly	EA	0	\$11,496.01	\$0.00
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	92	\$13.36	\$1,229.12
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	240	\$28.85	\$6,924.00
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1.5 Hr. Haul Time	CY	240	\$15.75	\$3,780.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Topsoil , stone haul	CY	168	\$15.75	\$2,646.00
12	Absorption Trench	LF	240	\$15.76	\$3,782.40
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	200	\$21.10	\$4,220.00
20	Curtain Drain Outlet Pipe	LF	35	\$11.52	\$403.20
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	7750	\$1.04	\$8,060.00
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	2	\$184.00	\$368.00
26	Additional Riser Section	EA	1	\$98.00	\$98.00
27	Access Road	LF	145	\$20.70	\$3,001.50
29	16 trees to be removed		1	\$8,725.00	\$8,725.00
30	Temp culvert		1	\$750.00	\$750.00
31	Shuttle tank		1	\$1,500.00	\$1,500.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$51,569.98
				ADD 10%	\$56,726.98



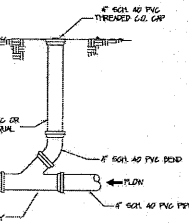
TYPICAL 1000 GALLON SEPTIC TANK
(NOT TO SCALE)

SEPTIC TANK NOTES:

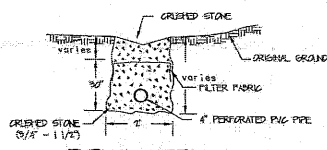
1. TANK TO BE PRECAST REINFORCED CONCRETE - CONCRETE OR ACCEPTED EQUAL CONCRETE TO THE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAY SET AND SHALL HAVE THE CAPABILITY OF SUPPORTING 300 PSF.
2. TANK TO BE REINFORCED IN A 6" LAYER OF CRUSHED STONE.
3. IT IS RECOMMENDED THAT PRIOR TO BACKFILL, THE TANK SHOULD BE FILLED WITH WATER TO VERIFY THAT IT HAS BEEN ADEQUATELY SEALED, WATER-TIGHT, AND IS ACCEPTABLE FOR USE.
4. INLET & OUTLET SHALL BE ENCLOSED HEADS TO BE WATER-TIGHT. IN ADDITION, REMAINING INLET HOLES SHALL BE PLUGGED AND/OR SEALED.
5. AT THE REQUEST OF THE CANTONAL WATERWORKS CORPORATION, A ZONE AROUND EFFLUENT FILTER OR AN ACCEPTED EQUAL, SHALL BE INSTALLED AT THE OUTLET OF THE SEPTIC TANK. IN ADDITION, A WATERFIGHT HOSE SHALL BE PROVIDED TO ALLOW FOR PERIODIC CLEANING OF THE EFFLUENT FILTER.
6. SEPTIC TANKS SHALL BE INSTALLED NO DEEPER THAN 3 FEET BELOW THE FINISH GRADE. IF A DEEPER INSTALLATION IS UNAVOIDABLE, DOCUMENTATION FROM THE TANK MANUFACTURER IS REQUIRED TO VERIFY THAT THE TANK CAN HANDLE THE ADDITIONAL LOADING ON AN 1800 LBS. RATED SEPTIC TANK. IT IS TO BE INSTALLED.



SHALLOW ABSORPTION TRENCH SYSTEM
(SECTION VIEW)
(NOT TO SCALE)



TYPICAL CLEAN-OUT DETAIL
(NOT TO SCALE)



TYPICAL CURTAIN DRAIN
(NOT TO SCALE)

NOTE: The curtain drain shall be dug a minimum of 36" in depth.

TREES TO BE REMOVED FOR CONSTRUCTION

QUANTITY	SIZE RANGE	TREE SPECIES
2	10"-14"	HAWK
1	10"-14"	HAWK
1	10"-14"	HAWK
1	10"-14"	HAWK
1	10"-14"	HAWK
1	10"-14"	HAWK
1	10"-14"	HAWK
1	10"-14"	HAWK
1	10"-14"	HAWK
1	10"-14"	HAWK

CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS
APPROVED
SUBJECT TO SPECIFIED CONDITIONS IN
DETERMINATION DATED: 10/1/14
TO: [Signature]
DATE: 10/1/14
APPROVED BY: [Signature]
DATE: 10/1/14
UNLESS CONSTRUCTION IS COMPLETED.

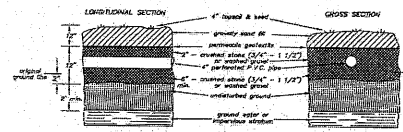
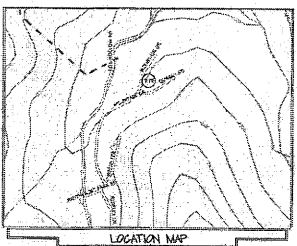
PREPARED BY:
REX SAWYER, P.E.
PROFESSIONAL ENGINEERING SERVICES
P.O. BOX 32
SHARON, N.Y. 14135
(516) 871-1111



TEST PIT INFORMATION

TP. #	DESCRIPTION
1	0'-4" TOPSOIL 1'-2" GRAVELLY LOAM 1'-4" SANDY SILT NOTHING OBSERVED @ 13' NO WATER OBSERVED NO DEBRIS OBSERVED

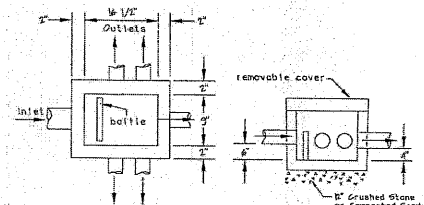
ADDITIONAL TO THIS PLAN BY ANY PERSON OTHER THAN A NEW YORK LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2003 OF THE NEW YORK STATE DECEIT LAWS. ANY ALTERATION OF THIS PLAN BY A NEW YORK LICENSED PROFESSIONAL ENGINEER, SHALL BE SO NOTED AND NOTED AS ACCOMPANIED BY THE SEAL AND SIGNATURE OF SAID PROFESSIONAL ENGINEER.



SHALLOW ABSORPTION TRENCH DESIGN
(NOT TO SCALE)

SHALLOW ABSORPTION TRENCH NOTES

1. 8" gravelly sand fill with a permeability rate of 5 to 10 in./hr. must be placed in the proposed absorption trench area prior to construction of the seepage system.
2. Gravelly sand fill shall extend a minimum of 7' beyond the trenches in all directions and taper to the original ground at a 2% slope.
3. Shallow absorption trenches are to extend no more than 2" into the original ground.



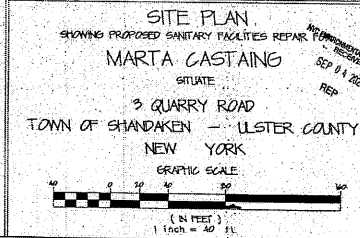
TYPICAL 6 HOLE DISTRIBUTION BOX
(NOT TO SCALE)

DISTRIBUTION BOX NOTES:

1. DISTRIBUTION BOX SHALL BE PROVIDED WITH PLAIN LEADERS TO PROVIDE EQUAL DISTRIBUTION OF EFFLUENT TO THE LATERALS.
2. D-BOX TO BE REINFORCED IN A 6" LAYER OF CRUSHED STONE OR CONCRETE SAND.
3. DISTRIBUTION BOX SHALL BE CONSTRUCTED OF PRECAST CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAY SET.
4. ALL OUTLETS SHALL BE MADE WATER-TIGHT. THIS INCLUDES ANY UNUSED OUTLET HOLES.
5. FLEXIBLE PIPES LEADING FROM D-BOX TO BE CONSTRUCTED OF SOLID PIPE.
6. PRE-CAST LEADERS PIPES LEADING FROM THE D-BOX SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT.

SANITARY ENGINEERING DETAIL NOTES

1. PRECASTED PIPES SHALL BE PLACED WITH A MINIMUM SLOPE OF 1/8" PER FOOT & A MINIMUM SLOPE OF 1/8" PER FOOT.
2. A DISTRIBUTION BOX SHALL BE USED WITH 1/2" DIA. PIPES DISTRIBUTION FROM THE BOX TO THE PRECASTED PIPES LINES.
3. WATERTIGHT GASKETS OR BRASS STONES 5/8" DIA. 1 1/2" THICK SHALL BE PLACED BELOW THE PRECASTED PIPES, AGAINST THE PIPE AND 2" ABOVE THE PIPE.
4. NO ROOF, DRAIN, OR FLOORING DRAIN SHALL BE DISCHARGED INTO OR IN THE DIRECTION OF THE SEWAGE DISPOSAL SYSTEM.
5. ALL TREES & WEEDS SHALL BE CUT TO GRADE AND REMOVED FROM THE SEWAGE DISPOSAL AREA. ROOT REMOVALS SHALL BE REMOVED SO AS TO NOT LIMIT THE PERFORMANCE TO THE UNDERLYING SOILS.
6. NO DRINKING, SWIMMING OR PARKING AREAS SHALL BE CONSTRUCTED OVER ANY PORTION OF THE SEWAGE DISPOSAL SYSTEM.
7. SEPTIC TANKS SHALL BE REINFORCED WITH 6" OF CRUSHED STONE. DISTRIBUTION BOXES SHALL BE REINFORCED WITH 6" OF CRUSHED STONE.
8. CONCRETE SEPTIC TANKS TO BE USED. TANKS SHALL BE WATER-TIGHT. CONTRACTOR SHALL SEAL TANK WITH HYDRAULIC CEMENT TO ENSURE WATER-TIGHTNESS.
9. LATERALS ARE TO BE PLACED 6" ON CENTER AND THE BOX ARE TO BE CAPPED. TRENCH NOTES: 1. TEST: NOTE: THE BOTTOM OF THE TRENCH SHALL BE LEVEL. IN ADDITION, THE BOTTOM & SID. IN TRENCHES SHALL BE RAMPED.
10. ALL SEPTIC SYSTEMS SHALL BE APPROVED AND INSPECTED BY THE TOWNSHIP.
11. ALL PIPE PROPOSED UNDER DRAINAGES SHALL BE CONSTRUCTED OF SOLID PIPE AND BE IN A MINIMUM OF 5" OF SUBGRADE IN ALL DIRECTIONS.
12. ALL SEPTIC SYSTEMS MUST BE LOCATED AS SHOWN ON THIS PLAN. INSTALLATION AND MAINTENANCE OF SEPTIC SYSTEMS SHALL FOLLOW THE NEW YORK STATE DEPARTMENT OF HEALTH'S "WASTEWATER TREATMENT STANDARDS - MANUAL, RECOMMENDED SYSTEMS, SECTION 2-A, AS AMENDED."
13. THE DRAINAGE ORDER TO SEPTIC TANK TO BE AT LEAST 6" DIA. PIPES AND PLACED AT A SLOPE OF 1/8" PER FOOT.
14. THE DRAINAGE ORDER TO SEPTIC TANK TO BE AT LEAST 6" DIA. PIPES AND PLACED AT A SLOPE OF 1/8" PER FOOT.
15. NO CONCRETE PART OF ANY SEWAGE DISPOSAL SYSTEM SHALL BE LOCATED OR MAINTAINED WITHIN 10 FEET OF ANY OPEN, EXISTING, DRAIN, WATERSHED OR ANY BODY OF WATER.
16. SEPTIC TANK TO BE PROVIDED WITH A WATER-TIGHT COVER TO GRADE. COVER IS TO BE CONSTRUCTED WITH 6" DIA. 3/4" DIA. PIPES CUT TO GRADE WITH A 2" DIA. STEEL PLATE AND A PLAIN Limestone COVER. TANK LIDS ARE TO REMAIN IN PLACE.
17. THE INSTALLATION OF SEPTIC LINES IN THE DRAINAGE ORDER IS REQUIRED TO MAINTAIN EQUAL DISTRIBUTION OF EFFLUENT TO THE LATERALS.



John Fennell Over \$30,000:

Address: 370 Taylor Rd., Delhi, NY 13753

Town: Meredith

Bedrooms: 3

Engineer: Headwaters Engineering PLLC

Contractor: G.C. Landscaping & Excavation

Sign In Date: 6/24/26

Design Application Received By DEP: 11/21/25

Design Application Deemed Complete: 12/1/25

Date Recommended for DEP Design Approval: 2/27/26

2-Year Deadline: 6/24/28

The major components will include one 1,000-gallon septic tank, a pump chamber, 30 l.f. of gravity pipe, 95 l.f. of force main, one effluent filter, one distribution box, 90 c.y. of absorption fill material, 140 l.f. of absorption trench, 170 l.f. of access rd., 20 trees to be removed, and site restoration. The homeowner received a quote for $\$56,912.47 \times 60\% = \$34,147.48$. The quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$34,147.48.

Cost Estimate

Homeowner: John Fennell
SBL #: 103-1-10
Designer: Ben Dates
Completed By: Mitch Hull
Date: 3/26/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	1	\$10,657.61	\$10,657.61
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	30	\$13.36	\$400.80
5	Force Main 2"PVC	LF	95	\$11.36	\$1,079.20
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	90	\$28.85	\$2,596.50
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1.5 Hr. Haul Time	CY	90	\$15.75	\$1,417.50
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	140	\$15.76	\$2,206.40
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	9000	\$1.04	\$9,360.00
23	4" Clean Out	EA	2	\$185.00	\$370.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	3	\$98.00	\$294.00
27	Access Road	LF	170	\$20.70	\$3,519.00
29	20 trees to be removed		1	\$13,500.00	\$13,500.00
30			0	\$0.00	\$0.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$51,850.77
				ADD 10%	\$57,035.85

NYC DEP APPROVAL* *REQUIRED FOR CONSTRUCTION

CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS

APPROVED

SUBJECT TO SPECIFIED CONDITIONS IN

DETERMINATION DATED: 02/27/2026

TO: John and Gail Fennell

S/B/L: 103-1-10

(C): Delamere

APPROVED BY: *Donna Strick*

APPROVAL EXPIRATION DATE: 02/27/2028

UNLESS CONSTRUCTION IS COMPLETED.



NYC ENVIRONMENTAL PROTECTION
RECEIVED

FEB 18 2026

REP



SEPARATION DISTANCES FROM WASTEWATER SYSTEM COMPONENTS							
SYSTEM COMPONENTS	WELL OR SUCTION LINE		TO STREAM, LAKE, WATERCOURSE OR WETLAND		DWELLING		PROPERTY LINE
	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)	DESIGN (FT)
HOLEY SEWER	30	30	25	400+	3	3	15
SEPTIC TANK	30	30	30	400+	10	10	10
EFFLUENT LINE TO SANITARY TRENCH	30	30	30	400+	10	10	10
SEPTIC TANK	100	100	100	400+	20	100	10
ABSORPTION FIELD	100	100	100	400+	20	100	10

NRCS SOIL GROUPS				
SOIL GROUP NAME	SOIL GROUP ID	HYDROLOGIC SOIL GROUP	HYDROIC SOIL RATING	NATURAL DRAINAGE CLASS
FLY OVERHEAD DETAILING (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)	VB	C	No	General drainage

OVERALL PLAN

SCALE: 1" = 40' HORIZONTAL SCALE IN FEET
1" = 20' VERTICAL SCALE IN FEET

GENERAL NOTES

1. EXISTING CONTOUR, MAJOR EXISTING CONTOUR, MINOR PROPERTY LINE, OVERHEAD UTILITY LINE, PROPOSED WASTEWATER LINE, SOIL TYPE BOUNDARY, 100 FT WATERCOURSE SETBACK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW YORK AND THE STATE OF NEW YORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW YORK AND THE STATE OF NEW YORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW YORK AND THE STATE OF NEW YORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW YORK AND THE STATE OF NEW YORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW YORK AND THE STATE OF NEW YORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW YORK AND THE STATE OF NEW YORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW YORK AND THE STATE OF NEW YORK.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW YORK AND THE STATE OF NEW YORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF NEW YORK AND THE STATE OF NEW YORK.

LEGEND

- EXISTING CONTOUR, MAJOR EXISTING CONTOUR, MINOR PROPERTY LINE
- OVERHEAD UTILITY LINE
- PROPOSED WASTEWATER LINE
- SOIL TYPE BOUNDARY
- 100 FT WATERCOURSE SETBACK

SSTS CONSTRUCTION QUANTITIES* ENGINEER'S ESTIMATE, CONTRACTOR TO BE RESPONSIBLE FOR OWN TAKE-OFFS AND FINAL QUANTITIES

SYSTEM COMPONENT	QUANTITY	UNIT
1000-GAL. PRE-CAST CONCRETE SEPTIC TANK	1	EA
1000-GAL. PRE-CAST CONCRETE PUMP CHAMBER, ONE-PIECE	1	EA
CHAMPION CPES-12, 1/2 HP SIMPLEX PUMP SYSTEM W/ 45 LF U.S. TO PUMP	1	EA
10-OUTLET PRE-CAST CONCRETE DISTRIBUTION BOX (FOR PUMPED EFFLUENT)	1	EA
4-IN. DIAM. SCH40 CLEAN-OUT	1	EA
4-IN. DIAM. SCH40S CLEAN-OUT	1	EA
4-IN. DIAM. SCH40 SANITARY SEWER	25	LF
4-IN. DIAM. SCH40S EFFLUENT LINE	5	LF
2-IN. DIAM. HOPE FORCE MAIN	25	LF
TEMPORARY ACCESS ROAD	170	LF
ABSORPTION FILL (APPLY 8 IN. MIN. PERC. RATE)	90	CY
TOPSOIL	45	CY
ABSORPTION TRENCH (4-IN. DIAM. SCH40S PERC. PIPE IN CRUSHED STONE TRENCH)	140	LF

CWC RESIDENTIAL SSTS REPLACEMENT

3-BR SHALLOW TRENCH PUMP SYSTEM

TOWN OF MEREDITH
DELAWARE COUNTY
NEW YORK

APPLICANTS:
GAIL FENNEL
JOHN FENNEL

APPLICANT ADDRESS:
16 DRAKE LANE
WHITE PLAINS, NY 10607

PROJECT ADDRESS:
370 TAYLOR ROAD
DELHI, NY 13753

PROJECT PARCEL:
103-1-10

**PROJECT
LATITUDE & LONGITUDE:**
42.33991 N, 74.94108 W

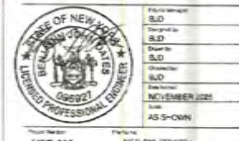


1025 Hobart Hill Road
South Kortright, NY 13842
cell: 315.480.8330
email: bdates01@gmail.com

REVISIONS			
NO.	DATE	DESCRIPTION	REV. BY

PROPOSED RESIDENTIAL SSTS: PLAN VIEW

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NOTE: This drawing is the property of the Town of Meredith, New York. It is to be used only for the project for which it was prepared. It is not to be reproduced or used for any other project without the written consent of the Town of Meredith, New York.



Project Number: MER-008
Drawing Title: SSTS REPLACEMENT

C01

Wayne Lopes Over \$30,000:

Address: 2107 Platte Clove Rd., Elka Park, NY 12427

Town: Hunter

Bedrooms: 2

Engineer: Praetorius & Conrad

Contractor: Bates Trucking & Excavation Inc.

Sign In Date: 11/7/25

Design Application Received By DEP: 3/20/26

Design Application Deemed Complete: 6/23/26

Date Recommended for DEP Design Approval: 6/23/26

2-Year Deadline: 11/7/27

The major components will include one 1,000-gallon septic tank, a pump chamber, 53 l.f. of gravity pipe, 39 l.f. of force main, an effluent filter, 90 c.y. of absorption fill material, 2 peat modules, 100 l.f. of access rd., and site restoration. The homeowner received a quote for \$34,995.00. The quote is below our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$34,995.00.

Cost Estimate

Homeowner: Wayne Lopes
SBL #: 209.04-2-1
Designer: Praetorius & Conrad
Completed By: Mitch Hull
Date: 3/26/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1000 Gal. Tank With System	EA	1	\$4,917.79	\$4,917.79
	1250 Tank With System	EA	0	\$5,371.95	\$0.00
	1500 Gal. Tank With System	EA	0	\$5,822.91	\$0.00
2	Gravity Piping 4" PVC	LF	53	\$13.36	\$708.08
3	Force Main 2"PVC	LF	39	\$11.36	\$443.04
4	Absorption Fill Material	CY	90	\$28.85	\$2,596.50
5	C-33 Sand	CY	0	\$48.23	\$0.00
6	Random Fill Material	CY	0	\$24.10	\$0.00
6	Additional Haul	CY	90	\$10.50	\$945.00
7	Effluent Filter	EA	1	\$100.00	\$100.00
8	Peat Filters One Module	EA	0	\$16,236.70	\$0.00
	Two Modules	EA	1	\$21,931.50	\$21,931.50
	Three Modules	EA	0	\$27,639.25	\$0.00
	Four Modules	EA	0	\$34,011.01	\$0.00
	Five Modules	EA	0	\$40,177.28	\$0.00
	Six Modules	EA	0	\$45,878.56	\$0.00
	Seven Modules	EA	0	\$52,693.58	\$0.00
9	Curtain Drain	LF	0	\$21.10	\$0.00
10	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
11	Swale	LF	0	\$7.39	\$0.00
12	Topsoil, Seed & Mulch	SF	4220	\$1.04	\$4,388.80
13	4" Clean Out	EA	1	\$185.00	\$185.00
14	Silt Fence	LF	0	\$3.73	\$0.00
15	Risers	EA	3	\$184.00	\$552.00
16	Access Road	LF	100	\$20.70	\$2,070.00
17	Other		0	\$0.00	\$0.00
18			0	\$0.00	\$0.00
19			0	\$0.00	\$0.00
20			0	\$0.00	\$0.00
21			0	\$0.00	\$0.00
22			0	\$0.00	\$0.00
23			0	\$0.00	\$0.00
TOTAL					\$38,837.71
ADD 10%					\$42,721.48

Stephen Lyman Over \$30,000:

Address: 6641 Fall Clove Rd., Delancey, NY 13752

Town: Andes

Bedrooms: 3

Engineer: Headwaters Engineering

Contractor: Delaware Bulldozing Corp.

Sign In Date: 7/16/25

Design Application Received By DEP: 5/7/26

Design Application Deemed Complete: 5/27/26

Date Recommended for DEP Design Approval: 8/18/26

2-Year Deadline: 7/16/27

The major components will include one 1,000-gallon septic tank, a pump chamber, 21 l.f. of gravity pipe, 20 l.f. of force main, one distribution box, 515 c.y. of absorption fill material, 175 l.f. of Presby pipe, 20 c.y. of C-33 sand, 124 l.f. of vent pipe, 75 l.f. of curtain drain, 40 l.f. of curtain drain outlet pipe, 55 l.f. of access rd., bucket material, sub panel, spread & reclaim tank spoils, and site restoration. The homeowner received three quotes. They were \$75,695.00, \$79,532.92, and \$83,500.00. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$75,695.00.

Cost Estimate

Homeowner: Stephen Lyman
SBL #: 257-1-11
Designer: Ben Dates
Completed By: Mitch Hull
Date: 9/22/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	1	\$10,657.61	\$10,657.61
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	21	\$13.36	\$280.56
5	Force Main 2"PVC	LF	20	\$11.36	\$227.20
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	515	\$28.85	\$14,857.75
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	2 Hr. Haul Time	CY	535	\$21.00	\$11,235.00
10	Effluent Filter	EA	0	\$100.00	\$0.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	175	\$30.77	\$5,384.75
18	NYSDOT C-33 Sand (Presby)	CY	20	\$48.23	\$964.60
19	Vent Pipe	LF	124	\$11.52	\$1,428.48
19	Curtain Drain (36" Avg. Depth)	LF	75	\$21.10	\$1,582.50
20	Curtain Drain Outlet Pipe	LF	40	\$11.52	\$460.80
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	9930	\$1.04	\$10,327.20
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	4	\$184.00	\$736.00
26	Additional Riser Section	EA	4	\$98.00	\$392.00
27	Access Road	LF	55	\$20.70	\$1,138.50
29	Sub Panel		1	\$800.00	\$800.00
30	Tight space, navigate around trees		1	\$1,550.00	\$1,550.00
31	Bucketing material		0	\$0.00	\$0.00
32	spread & reclaim tank spoils		1	\$950.00	\$950.00
33			0	\$0.00	\$0.00
				TOTAL	\$68,955.71
				ADD 10%	\$75,851.28

NYC DEP APPROVAL* REQUIRED FOR CONSTRUCTION

CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS

APPROVED

SUBJECT TO SPECIFIED CONDITIONS IN
DETERMINATION DATED: 08/18/2026

TO: Stephen Lyman and William Anstadt

S/B/L: 257-1-11

APPROVED BY: [Signature]

APPROVAL EXPIRATION DATE: 08/18/2028

UNLESS CONSTRUCTION IS COMPLETED.

NOTE:

THIS SSTS REPLACEMENT PROJECT IS PART OF THE CATSKILL WATERSHED
CORPORATION'S RESIDENTIAL SEPTIC REHABILITATION AND REPLACEMENT PROGRAM.
THE PROGRAM REIMBURSES PERMANENT RESIDENTS LIVING IN THE WEST OF HUDSON
NEW YORK CITY WATERSHED 100% OF ELIGIBLE COSTS OF DESIGNING AND
REPAIRING/REPLACING A FAILED SEPTIC SYSTEM THAT PRECEDES NOVEMBER 2, 1995.

NRCS SOIL GROUPS

SOIL GROUP NAME	SOIL GROUP ID	HYDROLOGIC SOIL GROUP	HYDRIC SOIL RATING	NATURAL DRAINAGE CLASS
Well-sorted and highly permeable, 2 to 15% clay, very stony	WUG	D	No	Moderately well drained

SEPARATION DISTANCES FROM WASTEWATER SYSTEM COMPONENTS

SYSTEM COMPONENTS	WATER SUPPLY WELL		TO STREAM, LAKE, WATERCOURSE, OR WETLAND		DWELLING		PROPERTY LINE	
	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)
HOUSE SEWER	10	5	25	12	5	3	10	75
SEWER TANK	40	25	25	12	10	5	10	15
EFFLUENT LINE	10	5	12	6	10	5	10	15
SUBMERSION BOX	100	60	100	60	20	10	10	15
ABSORPTION FIELD	100	60	100	60	20	10	10	15

LEGEND

EXISTING CONTOUR, MAJOR
EXISTING CONTOUR, MINOR
PROPERTY LINE
OVERHEAD UTILITY LINE
SOIL TYPE BOUNDARY

GENERAL NOTES

1. EXISTING CONTOUR, MAJOR AND MINOR, AND PROPERTY LINE BOUNDARY ARE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING CONTOURS AND PROPERTY LINES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL EXISTING CONTOURS AND PROPERTY LINES PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL EXISTING CONTOURS AND PROPERTY LINES PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL EXISTING CONTOURS AND PROPERTY LINES PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL EXISTING CONTOURS AND PROPERTY LINES PRIOR TO CONSTRUCTION.
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7. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL EXISTING CONTOURS AND PROPERTY LINES PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL EXISTING CONTOURS AND PROPERTY LINES PRIOR TO CONSTRUCTION.
9. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL EXISTING CONTOURS AND PROPERTY LINES PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL EXISTING CONTOURS AND PROPERTY LINES PRIOR TO CONSTRUCTION.

OVERALL PLAN



SOIL TEST RESULTS

TEST PIT ID	SLOPE THROUGH TEST PIT (%)	DEPTH OF TEST PIT (IN)	DEPTH TO BOUNDARY CONDITION (IN)	BOUNDARY CONDITION / LITING TEST DATA	ROOT DEPTH (IN)	USABLE SOIL DEPTH (IN)	PERCOLATION TEST HOLE DEPTH (IN)	PERCOLATION RATE (MIN / IN)
TPH1	0	12	8	WATER TABLE	0	0	0	1:10 - 2:00P 1:00P - 2:00P 1:00P - 2:00P

1. DEEP TEST PIT ANALYSIS AND PERCOLATION TESTS PERFORMED ON 7/18/26 BY SENIORMAN DATES P-E AND WERE USED BY A CDRG.
2. NYC DEP WEATHER DURING ANALYSIS 75°F AND CLEAR.

CWC RESIDENTIAL SSTS REPLACEMENT:

**3-BR AES
RAISED SYSTEM**

TOWN OF ANDES
DELAWARE COUNTY
NEW YORK

APPLICANTS:
STEPHEN LYMAN &
WILLIAM ANSTADT

APPLICANT ADDRESS:
6641 FALL CLOVE ROAD
DELANCEY, NY 13752

PROJECT ADDRESS:
6641 FALL CLOVE ROAD
DELANCEY, NY 13752

PROJECT PARCEL:
257-1-11

**PROJECT
LATITUDE & LONGITUDE:**
42.20043 N, 74.85546 W



1625 Hebert Hill Road
South Kortright, NY 13642
cell: 315.460.8330
email: btdates18@gmail.com

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CHKD
1	8.2.26	REVIEW	BLD	BLD
2	7.21.26	REVIEW	BLD	BLD

PROPOSED RESIDENTIAL SSTS REPLACEMENT: PLAN

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NOTE: This drawing is a revision of a previous drawing. It is a revision of the New York State
Professional Engineer License No. 145,000,000.



AND-041
AND-041 TURBIDITY

C01

Keri Moller Over \$30,000:

Address: 676 Wittenberg Rd., Mt, Tremper, NY 12457

Town: Woodstock

Bedrooms: 2, Homeowner adding 1 bedroom cottage

Engineer: Brinnier & Larios P.C.

Contractor: Chad Davis Contracting

Sign In Date: 7/28/25

Design Application Received By DEP: 2/21/26

Design Application Deemed Complete: 3/2/26

Date Recommended for DEP Design Approval: 3/2/26

2-Year Deadline: 7/28/27

The major components will include one 1,000-gallon septic tank, one pump chamber, 34 l.f. of gravity pipe, 110 l.f. of force main, an effluent filter, one distribution box, 150 l.f. of absorption trench, 15 l.f. of steel sleeve, saw cut pavement, remove stumps and one tall tree, and site restoration. The homeowner received a quote for \$37,890.77 - \$3,306.16 for additional 1 bedroom cottage = \$34,584.61. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$34,584.61.

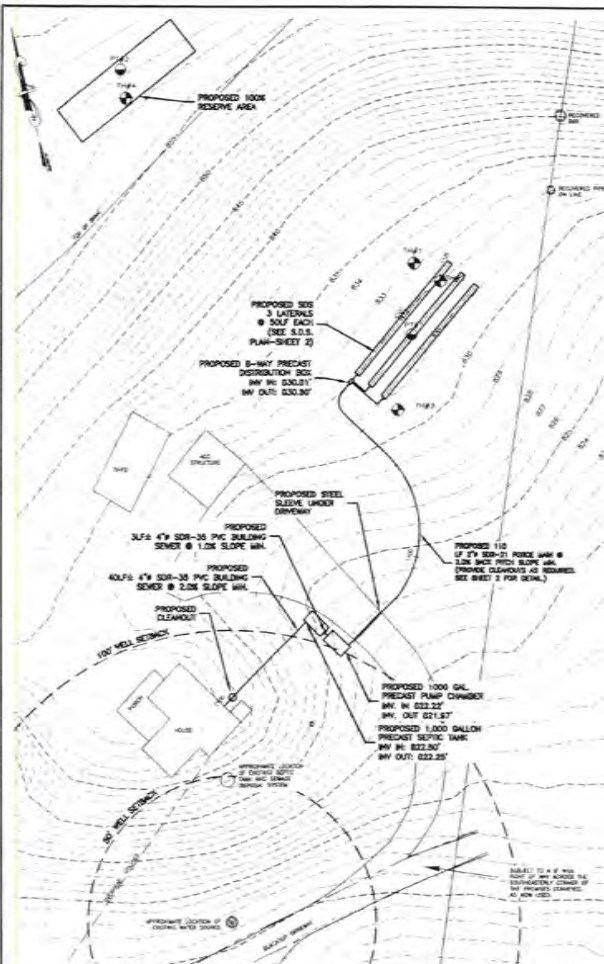
Cost Estimate

Homeowner: Keri Moller
 SBL #: 26.3-1-28
 Designer: Brinnier & Larios
 Completed By: Mitch Hull
 Date: 7/30/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	1	\$10,657.61	\$10,657.61
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	34	\$13.36	\$454.24
5	Force Main 2"PVC	LF	110	\$11.36	\$1,249.60
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	0	\$28.85	\$0.00
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	0	\$10.50	\$0.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	150	\$15.76	\$2,364.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	5000	\$1.04	\$5,200.00
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	3	\$98.00	\$294.00
27	Access Road	LF	0	\$20.70	\$0.00
29	Spread & reclaim excess material		1	\$1,350.00	\$1,350.00
30	steel sleeve	LF	15	\$34.76	\$521.40
31	saw cut pavement		1	\$750.00	\$750.00
32	Remove stumps and one tall tree		1	\$3,200.00	\$3,200.00
33			0	\$0.00	\$0.00
				TOTAL	\$32,675.61
				ADD 10%	\$35,943.17



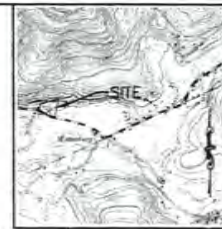
MINIMUM SETBACK REQUIREMENTS				
SYSTEM COMPONENT	WELL	STREAM OR WATERCOURSE	DEVELOPMENT	PROPERTY LINE
4" SDR-35 PVC FROM DWELLING TO SEPTIC TANK	10'	25'	25'	10'
4" SDR-35 PVC FROM SEPTIC TANK TO PUMP CHAMBER	10'	25'	25'	10'
4" SDR-35 PVC FROM PUMP CHAMBER TO DISTRIBUTION BOX	10'	25'	25'	10'
4" SDR-35 PVC FROM DISTRIBUTION BOX TO TRENCH	10'	25'	25'	10'
4" SDR-35 PVC FROM TRENCH TO TANK	10'	25'	25'	10'

- SEPTIC TANK AND PUMP STATION NOTES**
1. HORIZONTAL SETBACKS SHALL BE AS REQUIRED FOR INSTALLATION OF "SEPTIC TANK" AND "PUMP STATION".
 2. RECORD WELLS AS REQUIRED FOR "SEPTIC TANK" AND "PUMP STATION".
 3. EXISTING EXHAUSTION AS REQUIRED FOR "SEPTIC TANK" AND "PUMP STATION".
 4. EXISTING EXHAUSTION SHALL BE AS REQUIRED FOR "SEPTIC TANK" AND "PUMP STATION".

ITEM NUMBER	ITEM DESCRIPTION
1. NO ADJ. TANK OR PUMP STATION SHALL BE CONSTRUCTED INTO THE EXISTING SYSTEM.	
2. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
3. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
4. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
5. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
6. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
7. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
8. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
9. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
10. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	

SEWAGE DISPOSAL SYSTEM NOTES

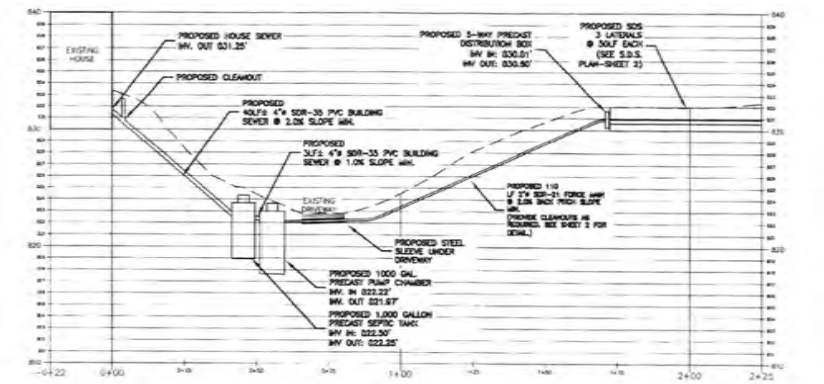
1. NO ADJ. TANK OR PUMP STATION SHALL BE CONSTRUCTED INTO THE EXISTING SYSTEM.
2. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
3. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
4. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
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8. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
9. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
10. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.



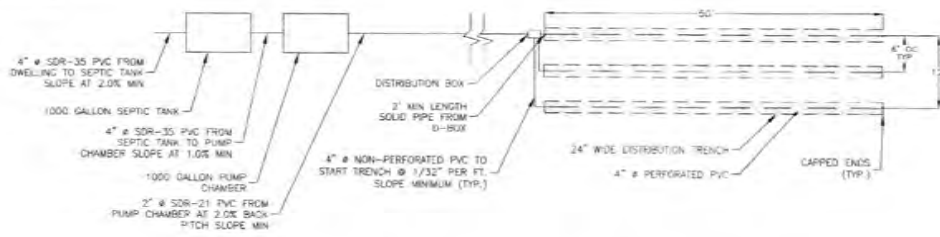
ITEM NUMBER	ITEM DESCRIPTION
1. NO ADJ. TANK OR PUMP STATION SHALL BE CONSTRUCTED INTO THE EXISTING SYSTEM.	
2. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
3. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
4. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
5. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
6. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
7. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
8. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
9. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	
10. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.	

EXISTING CESS POOL ABANDONMENT NOTES

1. NO ADJ. TANK OR PUMP STATION SHALL BE CONSTRUCTED INTO THE EXISTING SYSTEM.
2. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
3. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
4. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
5. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
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8. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
9. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.
10. ALL TANKS AND PUMPS SHALL BE CONSTRUCTED TO BE 10' MIN. FROM THE EXISTING SYSTEM.



PRIMARY SEWER DISPOSAL SYSTEM PROFILE (IN GROUND)
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



SCHEMATIC OF PRIMARY SEWER DISPOSAL SYSTEM (IN GROUND)
NOT TO SCALE



PROPOSED SEWAGE DISPOSAL SYSTEM
PREPARED FOR
KERI MOLLER & BART VAN DER LAAN
TOWN OF WOODSTOCK, ULSTER COUNTY, NEW YORK
DATE: 2/7/20
PROVISION RECORD: 2/7/20
FOR SEP COMMENTS:
BRINNIE & LARIOS, P.C.
ENGINEERS & LAND SURVEYORS
57 MAIDEN LANE, KINGSTON, NY
SCALE: AS SHOWN
DATE: FEB. 2020
SHEET NO. 1 OF 2

Marcelo Ribeiro Over \$30,000:

Address: 100 Balace Rd., Sundown, NY 12740

Town: Denning

Bedrooms: 1

Engineer: Medenbach, Eggers, and Carr

Contractor: Ryan Hoffstatter

Sign In Date: 3/6/25

Design Application Received By DEP: 8/14/25

Design Application Deemed Complete: 9/25/25

Date Recommended for DEP Design Approval: 9/25/25

2-Year Deadline: 3/6/27

The major components included one 1000-gallon septic tank, a pump chamber, 9 l.f. of gravity pipe, 50 l.f. force main, one effluent filter, one distribution box, 100 l.f. of Presby pipe, 15 c.y. of C-33 sand, set tanks with large machine, spread & reclaim excess material, and site restoration. The homeowner received a quote for \$34,800.00. The low quote is within 10% of our estimated cost for construction. CWC mistakenly sent a quote approval letter to the homeowner for the amount of this quote in April 2026. Work was completed in July 2026. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$34,800.00.

Cost Estimate

Homeowner: Marcelo Ribeiro
SBL #: 51.3-1-39
Designer: Medenbach, Eggers & Carr
Completed By: Mitch Hull
Date: 10/23/2025

2025 Schedule of Values

Enter Values in Blue Shaded Cells

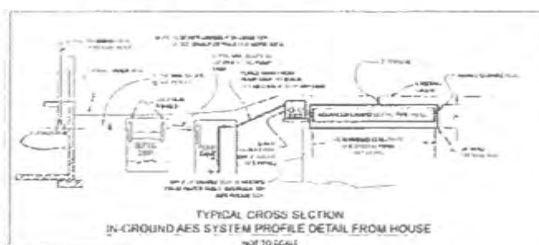
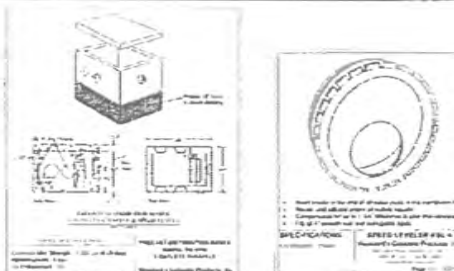
Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1000 Gal. Tank With System	EA	1	\$4,917.79	\$4,917.79
	1250 Gal. Tank With System	EA	0	\$5,064.16	\$0.00
	1500 Gal. Tank With System	EA	0	\$5,482.38	\$0.00
2	Pump Chamber	EA	1	\$10,657.61	\$10,657.61
3	Syphon Chamber	EA	0	\$4,913.59	\$0.00
4	Gravity Piping 4" PVC	LF	9	\$13.36	\$120.24
5	Force Main 2"PVC	LF	50	\$11.36	\$568.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	0	\$26.97	\$0.00
8	Random Fill Material	CY	0	\$22.79	\$0.00
9	1 Hr. Haul Time	CY	15	\$21.00	\$315.00
10	Effluent Filter	EA	1	\$105.00	\$105.00
11	Conventional Absorption Bed	SF	0	\$6.26	\$0.00
12	Absorption Trench	LF	0	\$15.77	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$25.67	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$45.80	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$25.67	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$45.80	\$0.00
17	Presby Systems Pipe	LF	100	\$30.77	\$3,077.00
18	NYSDOT C-33 Sand (Presby)	CY	15	\$48.23	\$723.45
19	Vent Pipe	LF	96	\$11.52	\$1,105.92
19	Curtain Drain (36" Avg. Depth)	LF	0	\$20.18	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$12.81	\$0.00
21	Swale	LF	0	\$7.17	\$0.00
22	Topsoil, Seed & Mulch	SF	3500	\$1.04	\$3,640.00
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.11	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	1	\$94.00	\$94.00
27	Access Road	LF	0	\$20.03	\$0.00
29	spread & reclaim excess material		1	\$1,750.00	\$1,750.00
30	difficult site work way out		1	\$1,500.00	\$1,500.00
31	set tanks with large machine		1	\$1,500.00	\$1,500.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$31,690.98
				ADD 10%	\$34,860.08

GENERAL CONSTRUCTION NOTES

1. ALL FOUNDATIONS TO BE CONSTRUCTED PER THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) REGULATIONS.
2. ALL FOUNDATIONS SHALL BE CONSTRUCTED PER THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) REGULATIONS.
3. NO SHEDS, CELLARS, DETACHING DRINKING WATER, OR OTHER DISCREPANCY.
4. NO SHEDS, CELLARS, DETACHING DRINKING WATER, OR OTHER DISCREPANCY.
5. NO SHEDS, CELLARS, DETACHING DRINKING WATER, OR OTHER DISCREPANCY.
6. NO SHEDS, CELLARS, DETACHING DRINKING WATER, OR OTHER DISCREPANCY.
7. ALL TRENCHES SHALL BE CUT IN THE FILL FIELD & ANY
8. ALL TRENCHES SHALL BE CUT IN THE FILL FIELD & ANY
9. ALL CONCRETE CHAMBERS TO BE CONSTRUCTED PER THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) REGULATIONS.

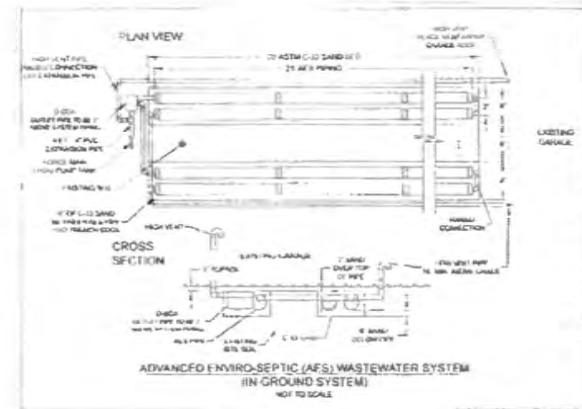
DESIGN SPECIFICATIONS IN-GROUND 2-PIPE AES SYSTEM PRESBY ENVIRONMENTAL

EXISTING 1 BEDROOM DWELLING @ 110 G.P.D.
MINIMUM DESIGN BASIS FOR PRESBY TRENCH SYSTEM
AVERAGE DAILY FLOW FOR A 2 BEDROOM DWELLING @ 300 G.P.D.
STANDARD PERCOLATION RATE = 2 MIN/INCH
ALLOWING 10% BUFFER
42 L.F. OF TRENCHING NEEDED
PROVIDE 7' - 4FT WIDE x 25 FT TRENCH (SEE DETAIL)
ABSORPTION TRENCH AREA
(2) 4 FT x 25 FT = 200 SQ. FT.
PUMP/PERCOLATION VOLUME
PUMP MAIN PIPE VOLUME
60 FT OF 1" PVC x 4 GPM GALLON 1 = 3 GALS
TOTAL LATERAL PUMPING DOSE VOLUME
100 FT x 1 GALLON = 100 GALS
DOSING VOLUME
PROVIDE 27 GALLON DOSE
APPROXIMATELY 6 DROPS PER DAY



ASTM C33 or NY DOT C33 SAND SPECIFICATION	
SIEVE SIZE	PERCENT RETAINED ON SIEVE (by Weight)
3/4" (19mm)	0
#10 (2.0mm)	0 - 35
#35 (0.50mm)	40 - 90

NOTE
NOT MORE THAN 2% ALLOWED TO PASS THE #200 SIEVE
(VERIFIED BY WASHING SAMPLE PER REQUIREMENTS OF ASTM C-117)

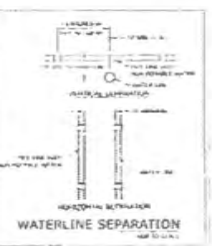
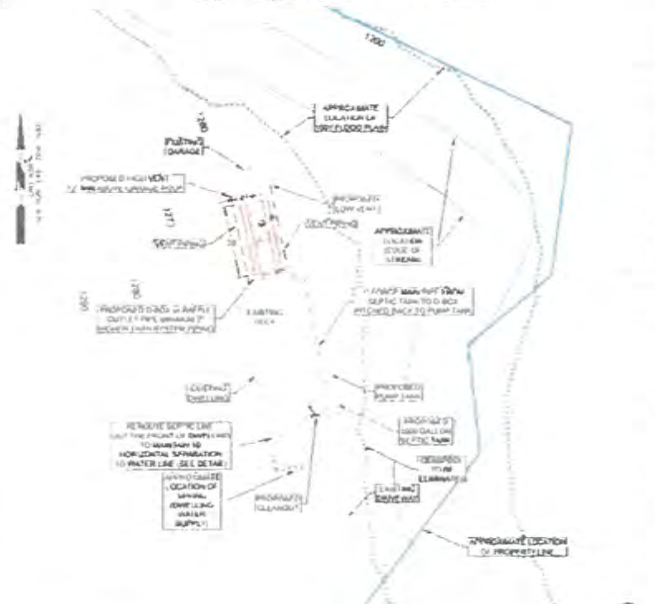


TEST HOLE DATA

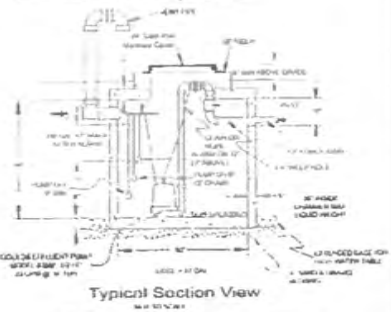
THIS DATA DENOTES SOIL TEST HOLE LOCATIONS
(OBTAINED BY Testcon K&B (ID# 1) ON 8/16/2023)
TEST HOLE DEPTH OBSERVATION
3 to 14' Sandy loam
14 to 20' Sandy loam w/ clods

PERC HOLE DATA

PROVIDES PERCOLATION TEST LOCATIONS
(OBTAINED BY Testcon K&B (ID# 1) ON 8/16/2023)
UNSATURATED PERCOLATION RATE (ID# 1)
P1 = 2 MIN/INCH



Residential Pump Chamber Round Tank Options



SPECIFICATIONS
Concrete Min. Strength = 4000 psi at 28 days
(Replacement) WWM & Rebar ASTM C478
Air Entrainment 5%
Pipe Connection Rubber Pipe Room
Volume 5.10 x 147 gal
Load Rating 300 psi or H200-44

**PRECAST PUMP CHAMBERS
RESIDENTIAL GRADE**
Woodard's Concrete Products, Inc.
629 Lynde Road, Sullivan NY 12153
(845) 361-3411 fax 361-1820
Page 00 12/12/12

www.woodardconcrete.com



1000 GAL SEPTIC TANK DETAIL
NOT TO SCALE

MINIMUM SANITARY SETBACK REQUIREMENTS				
WELL OR WATERLINE	STREET	WATERLINE	WELL	WATERLINE
10'	5'	5'	5'	5'
10'	5'	5'	5'	5'
10'	5'	5'	5'	5'
10'	5'	5'	5'	5'

NOTE
NO BUILDING OR CONSTRUCTION ON
PRIMARY AND RESERVE SEPTIC AREAS
SOILS IN THESE AREAS SHALL NOT BE
DISTURBED

LOCATION MAP SCALE 1" = 100'

APPROVED

DESIGNED BY: [Signature]

DATE: 12/12/12

SEPTIC DETAIL

1. TYPICAL TRENCH DETAIL

2. TYPICAL TRENCH DETAIL

ZONING REQUIREMENTS

1. MINIMUM LOT AREA: 1.00 AC

2. MINIMUM LOT WIDTH: 100 FT

3. MINIMUM LOT DEPTH: 100 FT

4. MINIMUM LOT AREA: 1.00 AC

5. MINIMUM LOT WIDTH: 100 FT

6. MINIMUM LOT DEPTH: 100 FT

MAP REVISION DATA

NO. 1

DATE: 12/12/12

BY: [Signature]

SEPTIC REPAIR PLAN

FOR
MARCELO RIBEIRO

12345 MAIN STREET, SUITE 100
SULLIVAN, NY 12153

Scale: 1" = 20'

APPROVED 12/12/2023

MEDENBACH, BIGGERS & CARR
SEWER ENGINEERS & LAND SURVEYORS, P.C.
1000 MAIN STREET, SUITE 100
SULLIVAN, NY 12153

CALL 811

Timothy Strawderman Over \$30,000:

Address: 49 Herdman Rd., Phoenicia, NY 12464

Town: Shandaken

Bedrooms: 2

Engineer: Headwaters Engineering PLLC

Contractor: Catskills Trademen, LLC

Sign In Date: 10/18/24

Design Application Received By DEP: 7/24/25

Design Application Deemed Complete: 9/3/25

Date Recommended for DEP Design Approval: 4/28/26

2-Year Deadline: 10/18/26

The major components will include one 1,000-gallon septic tanks, a pump chamber, 14 l.f. of gravity pipe, 60 l.f. of force main, one effluent filter, one distribution box, 150 c.y. of absorption fill material, 105 l.f. of Presby pipe, 12 c.y. of C-33 sand, 95 l.f. of swale, 50 l.f. of access rd., 75 trees to be removed, and site restoration. The homeowner received three quotes. They were \$59,380.69, \$64,700.00, and \$66,785.00. The quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$59,380.69.

Cost Estimate

Homeowner: Timothy Strawderman
SBL #: 13.12-1-25.100
Designer: Benjamin Dates
Completed By: Mitch Hull
Date: 6/2/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	1	\$10,657.61	\$10,657.61
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	14	\$13.36	\$187.04
5	Force Main 2" PVC	LF	60	\$11.36	\$681.60
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	150	\$28.85	\$4,327.50
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1.5 Hr. Haul Time	CY	162	\$15.75	\$2,551.50
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	105	\$30.77	\$3,230.85
18	NYSDOT C-33 Sand (Presby)	CY	12	\$48.23	\$578.76
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	95	\$7.39	\$702.05
22	Topsoil, Seed & Mulch	SF	5036	\$1.04	\$5,237.44
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	50	\$20.70	\$1,035.00
29	75 trees to be removed		1	\$19,500.00	\$19,500.00
30			0	\$0.00	\$0.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$55,324.11
				ADD 10%	\$60,856.52

SYSTEM COMPONENTS	WATER SUPPLY WELL		TO STREAM, LAKE, WATERCOURSE, OR WETLAND		DWELLING		PROPERTY LINE	
	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)
HOUSE BROWN	50	37	25	22	3	3	10	65
SEPTIC TANK	50	45	50	227	10	15	10	60
EFFLUENT LINE	50	52	50	215	10	51	10	50
DISTRIBUTION BOX	100	105	600	255	20	77	10	50
ABSORPTION FIELD	100	65	100	280	20	55	10	35



NOTE:
THIS SSTS REPLACEMENT PROJECT IS PART OF THE CATSKILL WATERSHED CORPORATION'S RESIDENTIAL SEPTIC REHABILITATION AND REPLACEMENT PROGRAM. THE PROGRAM REIMBURSES PERMANENT RESIDENTS LIVING IN THE WEST-OF-HUDSON NEW YORK CITY WATERSHED 100% OF ELIGIBLE COSTS OF DESIGNING AND REPAIRING/REPLACING A FAILED SEPTIC SYSTEM THAT PRECEDES NOVEMBER 9, 1995.

NYCS SOIL GROUPS				
SOIL GROUP NAME	SOIL GROUP ID	HYDROLOGIC SOIL GROUP	HYDRIC SOIL RATING	NATURAL DRAINAGE CLASS
Wellbore and Wellbore soils, generally having extremely clayey	WCB	D	No	Moderately well drained

AS EXISTING POTABLE WATER WELL WILL BE LOCATED LESS THAN 100 FT FROM THE PROPOSED ABSORPTION FIELD, IT IS RECOMMENDED THAT THE HOMEOWNER PERIODICALLY TEST WATER.

NYC DEP APPROVAL*

*REQUIRED FOR CONSTRUCTION

CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS

APPROVED

SUBJECT TO SPECIFIED CONDITIONS IN DETERMINATION DATED: 4/18/26
TO: SHAW DESIGN
BY: [Signature]
APPROVED BY: [Signature]
APPROVAL EXPIRATION DATE: [Blank]
UNLESS CONSTRUCTION IS COMPLETED.

CWC RESIDENTIAL SSTS REPLACEMENT:

2-BR SHALLOW TRENCH AES SYSTEM

TOWN OF SHANDAKEN
ULSTER COUNTY
NEW YORK

APPLICANTS:
TIMOTHY STRAWDERMAN
GERALD FRANKOWSKI

APPLICANT ADDRESS:
49 HERDMAN ROAD
PHOENICIA, NY 12464

PROJECT ADDRESS:
49 HERDMAN ROAD
PHOENICIA, NY 12464

PROJECT PARCEL:
13.12-1-25.100

**PROJECT
LATITUDE & LONGITUDE:**
42.08429 N, 74.33588 W

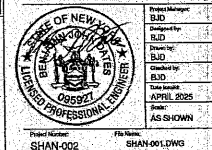


REVISIONS				
NO.	DATE	DESCRIPTION	REV.	CHK.
1	08.25	rev01	SH	SH

PROPOSED RESIDENTIAL SSTS REPLACEMENT: PLAN

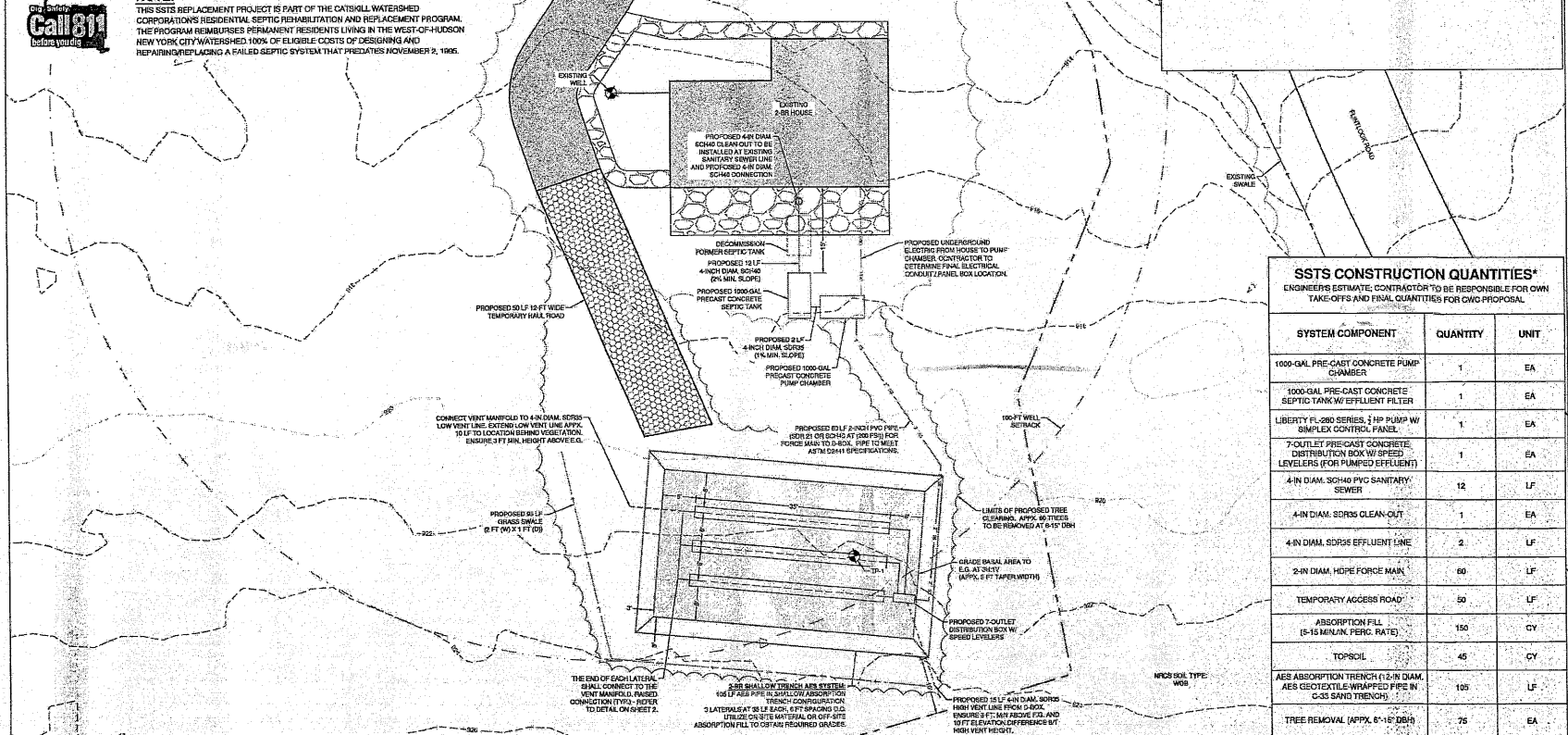
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NOTE: Unpublished alteration or addition to this drawing is a violation of the New York State Education Law Article 145, Section 7209.



Project Number: SHAN-002
Drawing Number: SHAN-001.DWG

C01



LEGEND		GENERAL NOTES		OVERALL PLAN		SOIL TEST RESULTS																			
EXISTING CONTOUR, MAJOR		1. PARCEL LINES SHOWN ON DRAWINGS WERE OBTAINED FROM THE ULSTER COUNTY GIS DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PARCEL BOUNDARY LINES SHOWN ARE CONFORMANT WITH THE ACTUAL PROPERTY BOUNDARY AND THAT THE PROPOSED ABSORPTION FIELD AND ASSOCIATED COMPONENTS ARE NOT ON A NEIGHBORING PARCEL.				<table><thead><tr><th>TEST PIT ID</th><th>SLOPE THROUGH TEST PIT (%)</th><th>DEPTH OF TEST PIT (IN)</th><th>DEPTH TO BOUNDARY CONDITION (IN)</th><th>BOUNDARY CONDITION LIMITING STRATA LAYER</th><th>ROOT DEPTH (IN)</th><th>USABLE SOIL DEPTH (IN)</th><th>PERCOLATION TEST HOLE DEPTH (IN)</th><th>STABILIZED PERCOLATION RATE (MIN/IN)</th></tr></thead><tbody><tr><td>TP#1</td><td></td><td>27</td><td>25</td><td>HARDPAN</td><td>28</td><td>26</td><td>15</td><td>1.04" @ 2.25' 2.1" @ 3.1' 5.10" @ 7.25' 4.25"</td></tr></tbody></table>		TEST PIT ID	SLOPE THROUGH TEST PIT (%)	DEPTH OF TEST PIT (IN)	DEPTH TO BOUNDARY CONDITION (IN)	BOUNDARY CONDITION LIMITING STRATA LAYER	ROOT DEPTH (IN)	USABLE SOIL DEPTH (IN)	PERCOLATION TEST HOLE DEPTH (IN)	STABILIZED PERCOLATION RATE (MIN/IN)	TP#1		27	25	HARDPAN	28	26	15	1.04" @ 2.25' 2.1" @ 3.1' 5.10" @ 7.25' 4.25"
TEST PIT ID	SLOPE THROUGH TEST PIT (%)	DEPTH OF TEST PIT (IN)	DEPTH TO BOUNDARY CONDITION (IN)					BOUNDARY CONDITION LIMITING STRATA LAYER	ROOT DEPTH (IN)	USABLE SOIL DEPTH (IN)	PERCOLATION TEST HOLE DEPTH (IN)	STABILIZED PERCOLATION RATE (MIN/IN)													
TP#1		27	25					HARDPAN	28	26	15	1.04" @ 2.25' 2.1" @ 3.1' 5.10" @ 7.25' 4.25"													
EXISTING CONTOUR, MINOR		2. CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY EXISTING SITE TO VERIFY CONDITIONS THAT AFFECT THE WORK SHOWN ON THE DRAWINGS. CONTRACTOR TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.																							
PROPERTY LINE		3. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF WATER SUPPLY (BWS) PRIOR TO THE START OF CONSTRUCTION. THE PROJECT ENGINEER WILL MANAGE THE BWS PROCESS AND PROVIDE THE CONTRACTOR WITH THE LOCATION OF UNDERGROUND UTILITIES AND LOCATE ANY POTENTIAL CONFLICTS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE HOMEOWNER TO FIELD VERIFY ANY PRIVATE UTILITIES ON-SITE.																							
OVERHEAD UTILITY LINE		4. IF A SMALL LATCH CURTAIN DRAIN IS PROPOSED ABOVE THE NEW ABSORPTION FIELD, CONSTRUCTION TO INSTALL THESE ITEMS BEFORE CONSTRUCTING THE ABSORPTION FIELD.																							
PROPOSED WASTEWATER LINE		5. PRIOR TO PLACEMENT OF FILL FOR THE ABSORPTION FIELD, CONTRACTOR TO NOTIFY THE SURVEYOR AND BWS TO VERIFY THE LOCATION OF THE ABSORPTION FIELD. CONTRACTOR SHALL ENSURE THAT EXISTING DEWATERING LINES AND/OR IRRIGATION LINES ARE NOT LOCATED WITHIN THE ABSORPTION FIELD.																							
PROPOSED ABSORPTION FIELD		6. ALL AREAS OF DISTURBANCE SHALL BE STABILIZED WITH SEED AND MULCH FOLLOWING CONSTRUCTION COMPLETION.																							
SOIL TYPE BOUNDARY		7. THE SEPTIC SYSTEM MUST BE INSTALLED IN THE TRENCH AS SHOWN ON THESE PLANS. THE PROJECT ENGINEER AND THE NYC DEP MUST BE CONTACTED AND CONSULTED PRIOR TO ANY SIGNIFICANT CHANGES.																							
		8. CONFIRM ALL INVERTS WITH PROJECT ENGINEER DURING CONSTRUCTION.				1. DEEP TEST PIT ANALYSIS AND PERCOLATION TESTS PERFORMED ON 4/26 BY BENJAMIN DAVIS, P.E. AND WITNESSED BY A. BENTON/DAVIS. ALL TESTS WERE CONDUCTED UNDER IDEAL WEATHER DURING ANALYSIS. 4PT AND 6PT DEEP TESTS WERE CONDUCTED. 4PT TEST RESULTS: 1.04" @ 2.25' 2.1" @ 3.1' 5.10" @ 7.25' 4.25". 6PT TEST RESULTS: 1.04" @ 2.25' 2.1" @ 3.1' 5.10" @ 7.25' 4.25".																			
						2. NIRS SOIL TYPE BOUNDARY LOCATED AT TEST PIT LOCATION: WELLSBORO 4.1H NIRS SOILS (MCSL, SOIL ENCOUNTERED DURING TEST PIT INVESTIGATIONS WERE USARCE (POSSIBLY LOAM 1-T) AND USABLE SOIL LOAM (MGSWL 4-3P).																			

1. DEEP TEST PIT ANALYSIS AND PERCOLATION TESTS PERFORMED ON 4-8-85 BY BENJAMIN DATES, P.E. AND WITNESSED BY A. WHITBARN (NYC DEP). WEATHER DURING ANALYSIS: 60°F AND CLEAR.

2. NYCS SOIL TYPE BOUNDARY LOCATED AT TEST PIT LOCATION: WELLSBORO & HUNTERDON SOILS (MCL). SOIL ENCOUNTERED DURING TEST PIT INVESTIGATIONS WAS USABLE LOESSY LOAM (1-4') AND USABLE SILT LOAM W/ GRAVEL (4-30').

HD Rentals LLC (Pineville Trailer Park) Over \$30,000:
Expanded Septic Program

Address: 25033 State Highway 10, Walton, NY 13856

Town: Walton

Use: Main House

Engineer: Steele Brook Engineering PLLC

Contractor: Louie Banker Contracting

Sign In Date: 5/15/25

Design Application Received By DEP:

Design Application Deemed Complete:

Date Recommended for DEP Design Approval: 5/5/26

2-Year Deadline: 5/15/27

The major components will include one 1,000-gallon septic tank, one 1,250-gallon septic tank, 65 l.f. of gravity pipe, two distribution boxes, 480 l.f. of Presby pipe, 44 c.y. of C-33 sand, 50 l.f. of vent pipe, spread & reclaim excess material, tree and brush removal, and site restoration. The owner received three quotes. They were \$49,855.00, \$58,625.00 and \$61,650.00. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request for \$49,855.00.

Cost Estimate

Homeowner: HD Rentals LLC Main House
SBL #: 273-1-21.11
Designer: Steele Brook Engineering PLLC
Completed By: John Jacobson
Date: 9/16/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	1	\$5,371.95	\$5,371.95
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	65	\$13.36	\$868.40
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	2	\$879.97	\$1,759.94
7	Absorption Fill Material	CY	0	\$28.85	\$0.00
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	44	\$10.50	\$462.00
10	Effluent Filter	EA	0	\$100.00	\$0.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	480	\$30.77	\$14,769.60
18	NYSDOT C-33 Sand (Presby)	CY	44	\$48.23	\$2,122.12
19	Vent Pipe	LF	50	\$11.52	\$576.00
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	6769	\$1.04	\$7,039.76
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	4	\$184.00	\$736.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	0	\$20.70	\$0.00
29	Spread & Reclaim Material	EA	1	\$2,750.00	\$2,750.00
30	Tree & Brush Removal	EA	1	\$2,000.00	\$2,000.00
31	Bucket Excess Material to Reclaim		0	\$0.00	\$0.00
32	Area	HR	12	\$165.00	\$1,980.00
33			0	\$0.00	\$0.00
				TOTAL	\$45,538.56
				ADD 10%	\$50,092.42

Kenard Bunkley Additional Cost:

Address: 161 Pine Hill Rd., Highmount, NY 12441

Town: Shandaken

Engineer: Rex Sanford, P.E.

Contractor: Josh Construction

This project was previously approved for \$48,355.16. When digging for the absorption system, and curtain drain the contractor encountered large rocks and boulders that had to be removed from the trench and drain areas in order to install the system. The contractor had to utilize a hammer when installing the curtain drain to remove some of the rock. The contractor was instructed to provide sandy gravel to adequately install and backfill the trenches. The curtain drain excavation was much wider as a result of the removal of the large rocks. Additional crushed stone and random fill was required to complete the curtain drain. Random fill was needed to backfill the septic tank and pump chamber due to the excavated material being unsuitable. The contractor has requested \$13,671.90 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$13,671.90 for a total project cost of \$62,027.06.











Joseph Ferrari Additional Cost:

Address: 5202 Route 23C, Jewett, NY 12444

Town: Jewett

Engineer: Praetorius & Conrad

Contractor: Kevin Thompson Excavating

This project was previously approved for \$26,589.60. While installing the septic tank, pump chamber and force main the contractor encountered shallow bedrock. As a result, the contractor had to hammer for 16 hours to achieve the appropriate depth. The spoils also had to be spread and reclaim on site. The contractor has requested $\$9,104.00 \times 60\% = \$5,462.40$ for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$5,462.40 for a total project cost of \$32,052.00.

Clifford Freeman Additional Cost Over \$30,000 :

Address: 195 Schumway Rd., Neversink, NY 12765

Town: Neversink

Bedrooms: 2

Engineer: Peak Engineering

Contractor: Sheeley Oil Excavating Inc.

Sign In Date: 5/8/25

Design Application Received By DEP: 2/25/26

Design Application Deemed Complete: 3/11/26

Date Recommended for DEP Design Approval: 4/8/26

2-Year Deadline: 5/8/27

The project was previously approved for \$2,091.00 for a 1000-gallon septic tank in 2005. The major components will include a one syphon chamber, 125 l.f. of gravity pipe, one effluent filter, one distribution box, 160 l.f. of absorption trench, 276 c.y. of absorption fill material, 95 l.f. of curtain drain, 70 l.f. curtain drain outlet pipe, 205 l.f. of swale, remove 7 trees, and site restoration. The homeowner received a quote for \$31,985.00. The quote is below our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$31,985.00 for a total project cost of \$34,076.00.

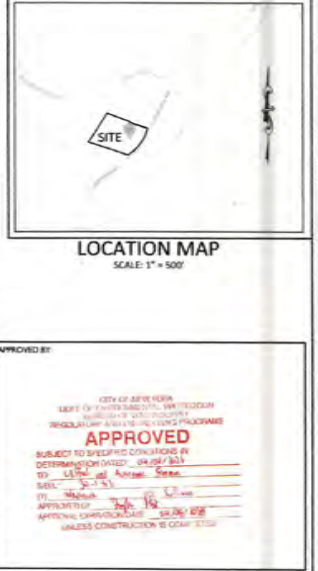
Cost Estimate

Homeowner: Clifford Freeman
SBL #: 30-1-63
Designer: Peak Engineering
Completed By: Mitch Hull
Date: 7/30/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	0	\$4,917.79	\$0.00
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	1	\$4,837.05	\$4,837.05
4	Gravity Piping 4" PVC	LF	125	\$13.36	\$1,670.00
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	0	\$879.97	\$0.00
7	Absorption Fill Material	CY	276	\$28.85	\$7,962.60
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	276	\$10.50	\$2,898.00
10	Effluent Filter	EA	0	\$100.00	\$0.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	160	\$15.76	\$2,521.60
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	95	\$21.10	\$2,004.50
20	Curtain Drain Outlet Pipe	LF	70	\$11.52	\$806.40
21	Swale	LF	205	\$7.39	\$1,514.95
22	Topsoil, Seed & Mulch	SF	7525	\$1.04	\$7,826.00
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	1	\$184.00	\$184.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	0	\$20.70	\$0.00
29	pump existing tank		1	\$450.00	\$450.00
30	remove 7 trees		1	\$3,500.00	\$3,500.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$36,360.10
				ADD 10%	\$39,996.11



Golden Woodland, LLC (Steven Golden) Additional Cost:

Address: 724-728 High Point Mountain Rd., West Shokan, NY 12494

Town: Olive

Engineer: Rex Sanford P.E.

Contractor: Burns Enterprises, LLC

This project was previously approved for \$55,883.65. During the installation of the septic tank, dosing chamber and gravity pipe the contractor encountered rock. As a result, the contractor had to hammer for 16 hours to achieve the appropriate depth. The rock was unsuitable for backfill, so the contractor had to bring in 30 c.y. of random fill material to backfill the components. The contractor has requested $\$8,523.00 \times 60\% = \$5,113.80$ for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$5,113.80 for a total project cost of \$60,997.45.

Veronica Gomez Additional Cost:

Address: 6689 State Route 10, Hobart, NY 13788

Town: Stamford

Engineer: Headwaters Engineering

Contractor: Boyle Excavating Inc

This project was previously approved for \$111,181.97. The original design called for the removal of one tree but during construction the roots of two additional trees were severely damaged while installing the effluent line. The engineer determined it was best to remove the additional trees. The contractor has requested \$5,610.00 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$5,610.00 for a total project cost of \$116,791.97.



HEADWATERS ENGINEERING, PLLC
1025 HOBART HILL ROAD
SOUTH KORTRIGHT, NY 13842

MEMORANDUM



To: Doug Strait, P.E. (NYC DEP)

CC: Ken Cox (NYC DEP)
Mitch Hull (CWC)

From: Headwaters Engineering, PLLC – Ben Dates, P.E.

Date: 8.10.2026

RE: CWC SSTS Replacement – Construction Certification
Veronica Gomez – 61689 State Highway 10, Hobart, NY 13788
Tax Parcel ID: 68.-2-8.1
Town of Stamford, Delaware County, NY

This memorandum serves as construction certification for Veronica Gomez's subsurface sewage treatment system (SSTS) replacement in the Town of Stamford, Delaware County, New York at 61689 State Highway 10. This SSTS replacement is being funded by the Catskill Watershed Corporation (CWC).

Boyle Excavating, Inc. was the primary contractor for the SSTS replacement at Ms. Gomez's 9-bedroom residence. The replacement system consisted of a raised absorption field, a 1000-gal septic tank, a 2500-gal septic tank, and an effluent pump within a 2000-gal pump chamber. All construction work was performed by Boyle Excavating. The SSTS replacement was constructed in accordance with the plans designed by myself and approved by the New York City Department of Environmental Protection (DEP).

Installed SSTS Components

1. Septic Tanks
 - a. 1000-gal pre-cast concrete tank from Butts Precast Products (Masonville, NY) installed per plans on 8/30/24.
 - b. 2500-gal pre-cast concrete tank from Butts Precast Products installed per plans on 8/30/24.
2. Pump & Pump Chamber
 - a. 2000-gal pre-cast concrete pump chamber from Butts Precast Products.
 - b. Dose – Set to 10.5 inches (356 gal). Design dose: 354 gal.
 - c. Control panel installed on post adjacent to the pump chamber.
 - d. Champion 1-HP effluent pump with NEMA 4 simplex panel installed..
3. Distribution Boxes
 - a. 10-outlet pre-cast concrete unit for pumped effluent from Butts Precast Products installed at termination of force main.
 - b. 21-outlet pre-cast concrete unit from Woodard's Concrete Products (Bullville, NY) installed at absorption field for distribution pipes within laterals.
4. Usable Fill – Absorption fill for raised-type absorption basal area and tapers.

- a. Installed per plans and specifications.
 - b. 13.5-inch minimum fill depth installed above existing grade to bottom of proposed trench at downhill edge of trench.
 - c. Percolation test: stabilized at 5'30" / inch.
5. Absorption Trenches
- a. Clean #2 stone installed in 12-inch deep trench w/ 4-inch diam. perforated ADS triple wall pipe, covered over top with geotextile filter fabric.
 - b. Fourteen (14) laterals at 45 LF were installed at 0% slope.

Additional Work Items Required

In the original design, one (1) tree was to be removed, but two additional existing trees (30"+ diam.) adjacent to the work area needed to be removed. Based on their condition (old, partially rotted), the proximity to the house, and the disturbance to the root system during effluent line installation / connection to the new 2000-gal pump chamber, the Gomez residence could be impacted by the trees in the future.

Boyle Excavating removed the two (2) additional trees on my direction while NYSEG was on-site to disconnect the existing overhead wires to the house for the original tree removal.



Cheryl Hofsdal Additional Cost:

Address: 2644 Perch Lake Rd., Andes, NY 13731

Town: Andes

Engineer: Headwaters Engineering

Contractor: Delaware Bulldozing Corp.

This project was previously approved for \$86,927.00. Due to variations in topography along the retaining wall and in the leach field area, the contractor was required to bring in an additional 5 loads of stackable wall block, 45 c.y. of absorption fill material, and 45 c.y. of backfill drainage material for the rock wall. The contractor has requested \$11,677.30 for the added work. We believe the reasonable cost is \$11,177.30. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$11,177.30 for a total project cost of \$98,104.30.

Dragos Ianau Additional Cost:

Address: 63 Dave Rd., Margaretville, NY 12455

Town: Middletown

Engineer: Rex Sanford P.E.

Contractor: Estes Plumbing & Excavation

This project was previously approved for \$62,129.98. When digging for the absorption system the contractor encountered large rocks and boulders that had to be removed from the trench area in order to install the system. The contractor was instructed to provide sandy gravel to adequately install and backfill the trenches. The rock that was excavated was spread and reclaimed onsite. The contractor has requested \$6,188.40 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$6,188.40 for a total project cost of \$68,318.38.

CWC Field Report - Septic

Section 1

Project Name	Ianau
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Project Information

Project Information

Field Report #	3
Project ID	61091
Project Name	Ianau
Preparator	Sullivan, Brian

Address

Address

SBL #	241-3-3
Street #	63
Street Name	Dave Rd
Village/ Hamlet	Margaretville
Municipality	Middletown
Zip Code	12455
County	Delaware
State	NY

Date/Time

Date/Time

Date	08-21-2026
Time	09:15 AM (-4 GMT)
Temperature	72
Weather Conditions	Sunny

Attendees

Attendees

Attendees Present	CWC Staff, Contractor
CWC Staff	Hull, Mitchell, Sullivan, Brian
Contractor- Company Name	Estes Plumbing & Excavation
Contractor- Last Name, First Name	

Field Conditions

Field Conditions

CWC Field Report - Septic

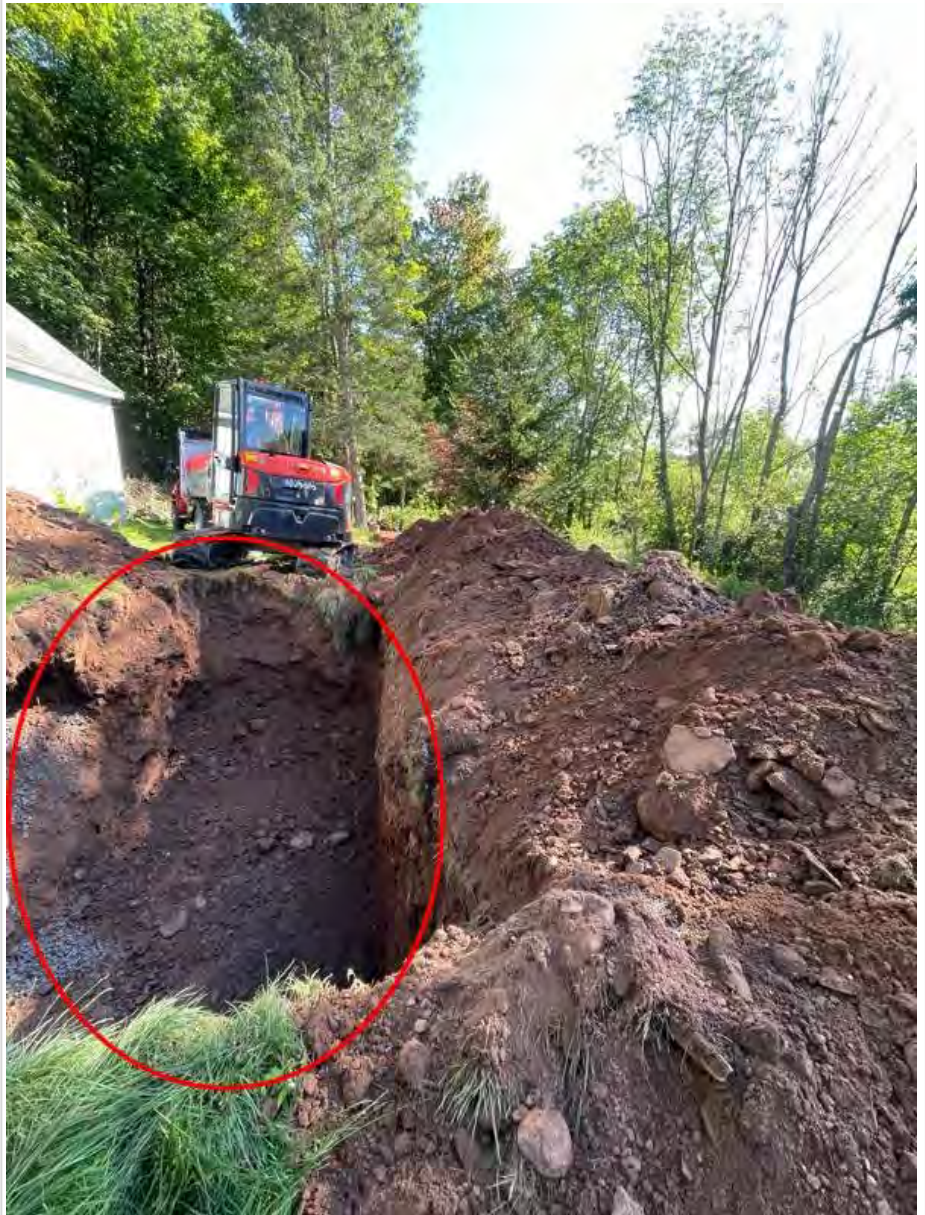
Existing Site Conditions	Leach field access road completed. Leach field area cleared and laterals delivered to site
Observations	Leach field and d-box installation complete. Force main line installation in progress-completed up to rock ledge at base of garage . Pump chamber installation in progress.
Action Items	Complete pump chamber installation and tie into force main line
Site Photos	 Site facing NE. Installed leach field noted  Site facing N. Distribution box noted

CWC Field Report - Septic



Site facing NW. Pump line installation progress notes

CWC Field Report - Septic



Site facing NE. Pump chamber installation in progress

Anne Kaufhold Additional Cost Over \$30,000:

Address: 7216 Route 28, Shandaken, NY 12480

Town: Shandaken

Bedrooms: 2

Engineer: Rex Sanford P.E.

Contractor: Eberhardt Excavation, LLC

Sign In Date: 4/26/25

Design Application Received By DEP: 7/8/26

Design Application Deemed Complete: 8/4/26

Date Recommended for DEP Design Approval: 8/4/26

2-Year Deadline: 4/26/27

The project was previously approved for \$12,600.00 for a 1000-gallon septic tank in 2025 by a different contractor. The major components will include a one pump chamber, 5 l.f. of gravity pipe, 110 l.f. of force main, one distribution box, 10 c.y. of absorption fill material, 150 l.f. of Presby pipe, 32 c.y. of C-33 sand, 21 l.f. of vent pipe, 170 l.f. of access rd., set tank with a large excavator, shuttle material due to steep slope, spread & reclaim excess material, and site restoration. The homeowner received three quotes. They were \$38,619.01, \$39,633.86, and \$40,552.97. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$38,619.01 for a total project cost of \$51,219.01.

Cost Estimate

Homeowner: Anne Kaufhold
SBL #: 5.18-2-36
Designer: Rex Sanford
Completed By: Mitch Hull
Date: 7/21/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	0	\$4,917.79	\$0.00
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	1	\$10,657.61	\$10,657.61
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	5	\$13.36	\$66.80
5	Force Main 2"PVC	LF	110	\$11.36	\$1,249.60
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	10	\$28.85	\$288.50
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	42	\$15.75	\$661.50
10	topsoil haul	CY	45	\$15.75	\$708.75
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	150	\$30.77	\$4,615.50
18	NYSDOT C-33 Sand (Presby)	CY	32	\$48.23	\$1,543.36
19	Vent Pipe	LF	21	\$11.52	\$241.92
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	4500	\$1.04	\$4,680.00
23	4" Clean Out	EA	0	\$185.00	\$0.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	1	\$184.00	\$184.00
26	Additional Riser Section	EA	1	\$98.00	\$98.00
27	Access Road	LF	170	\$20.70	\$3,519.00
29	pump existing tank		1	\$450.00	\$450.00
30	Set tank with large excavator		1	\$1,500.00	\$1,500.00
31	Shuttle material into site very steep		1	\$2,400.00	\$2,400.00
32	spread & recliarm material		1	\$1,450.00	\$1,450.00
33			0	\$0.00	\$0.00
				TOTAL	\$35,194.51
				ADD 10%	\$38,713.96

David Melville Additional Cost:

Address: 14 Mountain Valley Rd., Boiceville, NY 12412

Town: Olive

Engineer: Joe Boek

Contractor: Eberhardt Excavation

This project was previously approved for \$43,849.00. During construction it was determined that the homeowner's driveway was becoming damaged. To prevent further damage the contractor utilized 16 additional road plates. The contractor has requested \$7,920.00 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$7,920.00 for a total project cost of \$51,769.00.



Sherri Reddick Additional Cost:

Address: 97 Sickler Rd., Lake Hill, NY 12448

Town: Woodstock

Engineer: Rex Sanford P.E.

Contractor: Chad Davis Contracting

This project was previously approved for \$50,586.01. During construction the contractor encountered large boulders in the leach field area. As a result, the contractor had to hammer for a day and a half to clear the leach field of the large boulders. When excavating for the septic tank the contractor encountered groundwater and had to utilize a pump to dewater the tank hole. The contractor has requested $\$5,097.00 \times 60\% = \$3,058.20$ for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$3,058.20 for a total project cost of \$53,644.21.

John Reichle Additional Cost:

Address: 939 Clove Rd., Hobart, NY 13788

Town: Stamford

Engineer: Headwaters Engineering

Contractor: Boyle Excavating Inc.

This project was previously approved for \$58,691.41. While installing the septic, a graywater line that was not previously identified in the plans was discovered. The contractor replaced the line from the house to the new tank. The contractor has requested \$842.02 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$842.02 for a total project cost of \$59,533.43.

Oscar Sierra Additional Cost:

Address: 909 Silas Lake Rd., Fleischmanns, NY 12430

Town: Halcott

Engineer: John Bolger P.E.

Contractor: G.C. Landscaping & Excavation

This project was previously approved for \$47,537.22. Due to the proximity to the well the contractor had to slide the leach field further down the hill. This resulted in an additional 75 c.y. of fill material, 35 l.f. of access rd., extending the curtain drain 20 l.f. and curtain drain outlet pipe 40 l.f.. The contractor also encountered a culvert coming from under the driveway and discharging in the direction of the absorption field. As a result, the contractor had to install 125 l.f. of swale to divert the water away from the system. The contractor has requested \$8,388.66 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$8,388.66 for a total project cost of \$55,925.88.

Jerome Sprecher Additional Cost:

Address: 975 Hard Scrabble Rd., Roxbury, NY 12474

Town: Roxbury

Engineer: John Bolger P.E.

Contractor: Jim Peters Excavating

This project was previously approved for \$63,391.90. During construction it was determined that the contractor would be unable to use concrete tanks due to the location and the engineer had the tanks switched to plastic. During installation of the pump line the contractor encountered an old barn foundation and had to hammer through it to install the 2-inch pipe. While installing the tanks the contractor encountered ground water. As a result, a 60 l.f. drain was installed around the tanks to prevent ground water infiltration. Due to a scaling error on the plan the contractor had to install an additional 115 l.f. of 2 in pump line. The contractor has requested \$5,851.93 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$5,851.93 for a total project cost of \$69,243.83.



Nelson K. Weaver Additional Cost:

Address: 75 Tex Weaver Rd., Andes, NY 13731

Town: Andes

Engineer: Steele Brook Engineering

Contractor: LaFever Excavating

This project was previously approved for \$69,750.00. After construction the system was taking on ground water. The engineer believes the existing septic tank and dosing chamber are being infiltrated by ground water. The engineer would like to replace tanks. The contractor has requested \$13,710.00 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$13,710.00 for a total project cost of \$83,460.00.

Winnisook Inc. (Fairservice Residence) Additional Cost:
Expanded Septic Program

Address: 71 Winnisook Club Rd., Oliverea NY 12410

Town: Shandaken

Engineer: Rex Sanford, P.E.

Contractor: Mammoth Excavation Inc.

This project was previously approved for \$146,782.16. During construction the contractor encountered rock. As a result, the contractor had to hammer for 19.5 hours to achieve the appropriate depth. Broken rock material from hammering for tank excavations was spread on site. Additional restoration was required to cover the rock material. The contractor has requested \$18,295.00 for additional work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$18,295.00 for a total project cost of \$165,077.16.

Winnisook Inc. (VanKleeck Residence) Additional Cost:
Expanded Septic Program

Address: 81 Winnisook Club Rd., Oliverea NY 12410

Town: Shandaken

Engineer: Rex Sanford, P.E.

Contractor: Mammoth Excavation Inc.

This project was previously approved for \$129,496.13. During construction the contractor encountered rock. As a result, the contractor had to hammer for 24 hours to achieve the appropriate depth. Broken rock material from hammering for tank excavations was spread on site. Additional restoration was required to cover the rock material. The contractor has requested \$25,490.00 for the additional work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$25,490.00 for a total project cost of \$154,986.13.







Jefferey Knapp Second Time Repair: The property is in the Town of Kortright, SBL: 50-1-14. This project was paid for in 2012 under our Priority 7 Program. The pump has failed and has since been replaced. Risers should also be added to the tank. The homeowner had maintenance pump out done in 2026.

Shannon Lane Second Time Repair: The property is in the Town of Windham, SBL: 96.17-1-12. This project was paid for in 2011 under our Priority 7 Program. The homeowner is having issues with pump components. He has to run the pump on manual. This is also causing the leach field to blow out. We recommend the pump components get fixed and see if the leach field rejuvenates itself, if not a leach field replacement would be needed. The homeowner had maintenance pump outs done in 2016 and 2026 that we have records of and claims to have had others.

Vincent LeNoir Second Time Repair: The property is in the Town of Roxbury, SBL: 134-1-30. This project was paid for in 2014 under our Priority 7 Program under a previous owner. Ground water is infiltrating the pump chamber. We need to check the seal and possibly replace the pump chamber. The homeowner had maintenance pump outs done in 2021 and 2026.

Nelta Miller Second Time Repair: The property is in the Town of Gilboa, SBL: 207-3-7. This project was paid for in 2009 under our Priority 5 Program. The pump has failed and ground water is infiltrating the pump chamber. The homeowner had a maintenance pump out done in 2026.

Tracy Moore Second Time Repair: The property is in the Town of Stamford, SBL: 107-1-8. This project was paid for in 2014 under our Priority 7 Program. There are issues with the pump chamber components. We believe the floats are switched around and possibly wiring issues. The homeowner had a maintenance pump out done 2017 and 2022.

Norman Muller Second Time Repair: The property is in the Town of Gilboa, SBL: 198-2-1.12. This project was paid for in 2010 under our Priority 4 Program. There are issues with the pump chamber components, and the risers need to be sealed. The homeowner had a maintenance pump out done 2015 and 2022. Discussion:

Saturnina Ramos Second Time Repair: The property is in the Town of Middletown, SBL: 286-1-38. This project was paid for in 2006 under our Priority 4 Program. There are issues with the pump and other components, and a riser needs to be added to the tank. The pump issues have been corrected. The homeowner had a maintenance pump out done 2015.

Kimberly Rice-Bickel Second Time Repair: The property is in the Town of Hurley, SBL: 37.4-1-2. This project was paid for in 2014 under our Priority 1B Program. The pump has failed and has been replaced. The homeowner claims to have had 3 pump outs since purchasing the property. We only have a record for 2026.

Axel Rudolph Second Time Repair: The property is in the Town of Shandaken, SBL: 1.3-1-40.100. This project was paid for in 2012 under our Priority 7 Program. There are issues with the pump and other components. When the pump comes on the alarm starts to go off. The homeowner had a maintenance pump out done 2021.

Septic Maintenance: Mitchell Hull will update the committee.

Septic Cluster: No Report

Septic Update: Mitchell Hull will address the latest Septic Update.

Other: Jeffrey Breigle Septic Appeal

September 20, 2026

Catskill Watershed Corporation

Attn: President and Board of Directors
669 County Highway 38, Suite 1
Arkville, NY 12406

Re: Formal Appeal Under Article 2-A §2:01:10

CWC Project ID: 58617

Property: 588 Cozy Hollow Rd., Prattsville, NY 12468

Dear President Tina Mole and Members of the CWC Board of Directors:

I am writing to formally appeal the determination that my septic system is not eligible for a second CWC-funded repair and that the circumstances do not qualify as “unique circumstances.”

I respectfully request that the CWC Board review this determination pursuant to **§2:01:10, Appeals Process, of the CWC Septic System Rehabilitation and Replacement Program Rules (Article 2-A)** and reconsider the decision in light of the documented condition of the system, its unusual history, and the specific provisions of Article 2-A concerning site-specific repairs and special circumstances.

1. The current system is demonstrably failing

The CWC field inspection conducted on September 10, 2026, documented significant evidence that the existing system is not functioning properly.

The field report identifies the system as a two-pod peat system installed in 2020. It specifically documents that the area around the top of the pods was wet, including a large wet spot on the driveway side of the mound. More importantly, the inspection chamber was approximately three-quarters full of water, which the report states indicated that water was not leaching out properly.

The inspection was attended by CWC staff, the engineer, DEP, the applicant, and the contractor, providing a substantial opportunity to evaluate the actual condition of the system.

Accordingly, this is not a request based on a speculative or anticipated problem. The current inspection documents an actual hydraulic problem with the system.

2. The system has had an unusual history from the beginning

The peat pod system was installed in August 2020 at a CWC-funded cost of **\$29,699.53**.

Only a few months later, in December 2020, the system flooded following snowmelt and heavy rainfall. Because of the site's water conditions, a curtain drain was subsequently installed in August 2021 at an additional CWC-funded cost of **\$6,556.66**.

RECEIVED
SEP 24 2026

The total CWC-funded investment in the system and subsequent corrective work therefore amounts to **\$36,256.19**.

The property also had a failed percolation test before the original installation, demonstrating that the site presented significant soil and drainage limitations from the outset.

This history is important because the current problem cannot reasonably be viewed as an ordinary situation involving a relatively new septic system that simply requires routine maintenance. The system experienced serious water-related problems shortly after installation, required an additional engineered drainage measure, and is now exhibiting documented evidence that water is not leaving the peat pods properly.

During the September 10, 2026 inspection, CWC Septic Program Specialist **Kyle Faraci** also stated that **“we have never had to deal with this before.”** That statement is consistent with the unusual history and circumstances surrounding this system.

3. Article 2-A expressly provides for site-specific engineering solutions

The Article 2-A rules do not appear to contemplate that the age of a system should automatically end the analysis where an existing system is experiencing documented failure.

Section **2:02:01, System Standards**, provides that the Septic Program is intended to determine whether a system should be rehabilitated, upgraded, or replaced and what repair, upgrade, or replacement is appropriate. Where full compliance is not feasible or practicable, the rules call for the system to be upgraded based upon **“best professional judgment”** to the extent feasible, while protecting public health, safety, and the environment.

The Article 2-A **Site Analysis and Repair Guidelines** likewise address circumstances involving high groundwater and hydraulic problems. Where high groundwater is the reason for an inadequate system, the guidelines specifically contemplate installation of a curtain drain to lower the water table sufficiently to achieve the required groundwater separation. The guidelines also address situations involving partial hydraulic failure by calling for evaluation of the cause and consideration of site-specific corrective measures, including evaluation of the soils and absorption area and possible reconfiguration or relocation where appropriate.

This is particularly significant here because a curtain drain was, in fact, installed at this property following the system's early flooding problems, yet the system is now again exhibiting evidence of inadequate drainage.

4. The “unique circumstances” determination warrants Board review

The September 10, 2026 field report states:

“System does not meet standards for second time repair by CWC, system is not 10 years old and does not constitute unique circumstances as per executive director. Homeowners are welcome to appeal the ruling.”

I respectfully request that the Board identify the specific Article 2-A provision or technical standard upon which the determination that this system does not qualify for a second repair is based.

The field report does not identify the specific provision establishing the applicable “second time repair” standard, nor does it explain why the documented circumstances do not qualify as unique or special circumstances.

That distinction is important because **§2:01:10 expressly provides an appeal mechanism under which the Board may reverse a denial where special circumstances warrant eligibility or reimbursement.**

The circumstances here are extraordinary:

- The original septic system was installed in 2020.
- The property had previously failed a percolation test.
- The system flooded within months of installation.
- A curtain drain was subsequently installed as additional corrective work.
- The current system is again experiencing significant water-related problems.
- The September 10, 2026 inspection documented wet conditions around the pods.
- The inspection chamber was approximately three-quarters full of water.
- The field report states that the water was not leaching out properly.
- The CWC-funded investment in the original system and curtain drain totals \$36,256.19.
- Multiple parties, including CWC staff, an engineer, DEP, the applicant, and the contractor, participated in the current inspection.
- CWC's own Septic Program Specialist indicated during the inspection that this was a situation CWC had never previously had to deal with.

Taken together, these facts provide substantial grounds for the Board to reconsider whether this situation falls within the “unique circumstances” or “special circumstances” provisions of Article 2-A.

5. I am not asking CWC to disregard its standards

I am not requesting that CWC waive applicable health, environmental, engineering, or NYCDEP requirements.

Rather, I am requesting that CWC apply its own rules to determine what **site-specific corrective measure** is appropriate for this unusual failure.

If the existing peat pod configuration cannot be effectively repaired, I ask that CWC, its engineer, and the appropriate agencies evaluate whether an alternative rehabilitation, upgrade, reconfiguration, or replacement can be designed that satisfies the applicable standards.

The Article 2-A rules specifically recognize that repair decisions should be tailored to the particular site and based upon professional judgment. This property presents precisely the type of

unusual site history that warrants such an evaluation rather than an automatic denial based solely on the age of the system.

6. Requested relief

For these reasons, I respectfully request that the CWC Board:

1. **Accept this letter as a formal appeal under Article 2-A §2:01:10;**
2. **Reverse or reconsider the determination that the property is categorically ineligible for a second CWC-funded repair;**
3. **Determine that the documented history and present condition constitute unique and/or special circumstances warranting further consideration under Article 2-A;**
4. **Identify the specific Article 2-A provision or technical standard relied upon in determining that a second repair is not permitted;**
5. **Direct that the current hydraulic failure be evaluated on a site-specific engineering basis, including the cause of the water accumulation and the failure of the system to properly leach; and**
6. **Consider funding an appropriate engineered rehabilitation, upgrade, reconfiguration, or replacement to the extent permitted by the CWC program and applicable NYCDEP requirements.**

I respectfully ask the Board not to treat the age of the system as dispositive without considering the extraordinary circumstances surrounding this particular property and the documented evidence that the current system is not functioning properly.

The purpose of the CWC Septic Program is to address failing or likely-to-fail septic systems and to protect public health and water quality. The current inspection establishes that this system has a significant functional problem. I therefore believe the appropriate response is to determine what feasible, professionally engineered solution can correct that problem—not simply to conclude that no further assistance is possible because the system is less than ten years old.

I appreciate the Board's consideration of this appeal and respectfully request a written determination explaining the basis for its decision.

Sincerely, 

Jeffrey Breigle
588 Cozy Hollow Rd.
Prattsville, NY 12468

CWC Project ID: 58617

CWC Field Report - Septic

Section 1

Project Name Jeffrey Breigle

Project Information

Project Information

Field Report # 1
Project ID 58617
Project Name Jeffrey Breigle
Preparator Faraci, Kyle

Address

Address

SBL #	58.00-3-18
Street #	588
Street Name	Cozy Hollow Rd
Village/ Hamlet	
Municipality	Prattsville
Zip Code	12468
County	Greene
State	NY

Date/Time

Date/Time

Date	09-10-2026
Time	09:30 AM (-4 GMT)
Temperature	70
Weather Conditions	Sunny

Attendees

Attendees

Attendees Present	CWC Staff, Engineer, DEP, Applicant, Contractor
CWC Staff	Faraci, Kyle
Applicant- Last Name	Breigle
Applicant- First Name	Jeffrey
Contracting Company	GR Landscaping and Excavation
Contractor- Last Name, First Name	Rappleyea, Greg
Engineering Firm	Praetorius & Conrad

CWC Field Report - Septic

Engineer- Last Name, First name Utter, Bruce

DEP Employee - Last Name, First Name Terrill, Mike

Field Conditions

Field Conditions

Existing Site Conditions

2 pod peat system installed in 2020

Observations

Area around top of pods is wet, with a large wet spot on driveway side of mound. Inspection chamber was 3/4 of water, indicating water was not leaching out properly. Homeowner states no groundwater infiltration into pump chamber

Action Items

System does not meet standards for second time repair by CWC, system is not 10 years old and does not constitute unique circumstances as per executive director. Homeowners are welcome to appeal the ruling

Site Photos



CWC Field Report - Septic



CWC Field Report - Septic



CWC Field Report - Septic



CWC Field Report - Septic



Praetorius and Conrad, P.C.

Professional Engineering and Land Surveying
Established 1981

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17 September 2026

Jeffrey & Switlana Breigle
588 Cozy Hollow Road
Prattsville, New York 12468

SUBJECT: **SEWAGE DISPOSAL SYSTEM, 588 COZY HOLLOW ROAD,
TOWN OF PRATTSVILLE, GREENE COUNTY, NEW YORK - TAX
MAP PARCEL 58.00-3-18 -- OUR JOB NO.: D19-223**

Dear Mr. & Mrs. Breigle:

Pursuant to your request, our office visited the **SUBJECT** project site on 10 September 2026 to examine the replacement sewage disposal system that was constructed in August of 2020.

Our office observed an area on the ground surface that was wet near the constructed peat biofilter units installed. Our office also observed the water level in the peat biofilter inspection port, which visually appeared to be at a similar elevation to the wet area on the ground.

Based on what we could visually examine and our previous knowledge of the project site, our office suspects the replacement sewage disposal system is experiencing something known as "perched mounding". Perched mounding is caused when the vertical movement or flow of water is prevented; therefore, water accumulates and eventually will surface.

The vertical movement of water is severely restricted in the existing soil found on your site. The percolation test completed for the initial site investigation showed there was no soil percolation. The water level in the percolation test did not move during the first 1 hour test run. This is what I would consider a "unique circumstance". We would typically see some type of movement during the first 1 hour test run, even if it was only a drop of 1/8 of an inch or a percolation rate of 1" per 8 hours.

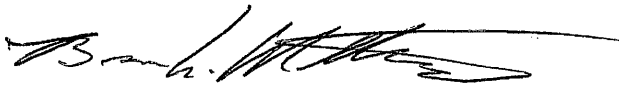
Based on the percolation rate, we selected a treatment option that had a very high effluent quality, and we improved the site by bringing in a minimum of 24" of sandy loam fill material. It was anticipated that the highly treated effluent water would eventually pass through the fill material and leach out onto the surface of the existing ground below the septic system, since it could not pass through the existing soil. Over time the treated effluent water has been accumulating under the sewage disposal system faster than it has been able to leach out or evaporate.

To fix this condition and restore the sewage disposal system's ability to function properly, our office recommends installing a curtain drain on one or both sides of the sewage disposal system that runs along the edge of the sandy loam fill material installed. This will improve the ability of the highly treated effluent water to drain out from below the sewage disposal system; thereby lowering the level of the perched water table and restoring the ability of the sewage system to function as intended.

If you have any questions or require any additional information, please feel free to contact me.

Respectfully submitted,

PRAETORIUS AND CONRAD, P.C.

A handwritten signature in black ink, appearing to read "Bruce D. Utter", with a long horizontal flourish extending to the right.

Bruce D. Utter, P.E.
Vice President

Enclosures

cc: Greg Rappleyea- Contractor