Catskill Watershed Corporation
Septic Committee Meeting
September 5, 2017
Minutes

Attendance:

Committee Members: Tom Hynes (Director), Wayne Marshfield (Director), Tina Mole' (Director), Richard Parete (Director), Robert Pelham (Director), Anthony Van Glad (Director), Alan Rosa (CWC), Michael Triolo (Director), Michael Meyer (NYCDEP)

Others: Samantha Costa (CWC), Tim Cox (CWC), Bruce Dolph (Coalition of Watershed Towns), Marty Donnelly (Director), Jim Eisel (Director), Diane Galusha (CWC), John Jacobson (CWC), LynnAnn Kavanagh (CWC), Larry Kelly (CWC), Leo LaBuda (CWC), Jim Martin (CWC), Mark McCarthy (Director), Jason Merwin (CWC), Barbara Puglisi (CWC), John Schwarz (NYCDEP), Tom Stalter (NYCDEP), Dave Warne (NYCDEP)

I. The meeting was called to order at 9:55 AM by Wayne Marshfield.
II. Alan introduced Tracy Ledder from the New York State Department of Health.
III. Minutes from the June Committee meeting were reviewed and approved as written.
IV. Septic Program

A. Daisy DeJean Over $25,000.00: Ms. DeJean's project is located in the Town of Shandaken. Her proposed septic system will serve a four bedroom house. Major components of this system include a 1,250 gallon septic tank, 45 linear feet of 4" gravity piping, one distribution box, 435 cubic yards of absorption fill material, 76 cubic yards of random fill, one effluent filter, 900 square feet of absorption bed, 8,900 square feet of site restoration, tree removal and a temporary access road. Three quotes have been received for this project. They are for $35,700.00, $34,525.00 and $34,007.46. The lowest quote is within 10% of the staff estimated cost of construction based on the Schedule of Values. The engineer of this project is Rex Sanford, the contractor is Michael Formont. The Septic Committee recommended that a resolution be brought before the Board of Directors to approve reimbursing Daisy DeJean in the amount not to exceed $34,007.00 to build her septic system.

B. Rayla Hart Additional Cost: Ms. Hart's project is located in the Town of Olive. Her project was previously approved for $34,225.10. During construction an abandoned dug well was uncovered. Ms. Hart's engineer directed the contractor to fill in the well. The contractor pumped out the well and filled it with approximately 15 cubic yards of absorption fill material. The engineer has verified this work Ms. Hart's contractor is requesting $438.00 for this work. This cost appears to be reasonable and justified. Total project cost with this addition will be $34,663.10. The Septic Committee

recommended that a resolution be brought before the Board of Directors to reimburse Rayla Hart in the amount not to exceed $438.00 for additional costs to build his septic system.

C. Donald Moseman Over $25,000.00: Mr. Moseman's project is located at 808 Foote Hollow Rd. in the Town of Stamford. His proposed septic system will serve a three bedroom house. A septic tank was paid for with program funding in 2011. Major components of his proposed septic system include 340 linear feet of 4" gravity piping, one distribution box, 296 cubic yards of absorption fill material, one effluent filter, 288 square feet of Eljen In-drain units, 10 cubic yards of C-33 sand, 150 linear feet of swale, 5,200 square feet of site restoration, 17 linear feet of Schedule 80 piping, two trench dams, tree clearing, one drop box (a drop box slows the velocity of effluent to the distribution box) and pumping of the existing septic tank. Trench dams prevent water from following pipe. Mr. Moseman's contractor has submitted a quote for $26,200.00 to build this system. This is within 10% of the staff estimated cost of construction based on the Schedule of Values. The engineer of this project is Henry Sander, the contractor is Jim Peters. The Septic Committee recommended that a resolution be brought before the Board of Directors to reimburse Donald Moseman in the amount not to exceed $26,200.00 to build his septic system.

D. Johanna Shafer Over $25,000.00: Ms. Shafer's project is located in the Town of Shandaken. Her proposed septic system will serve a three bedroom house. Major components of this system include a 1,000 gallon septic tank, a dosing chamber, 25 linear feet of gravity piping, 50 linear feet of force main, one distribution box, 475 cubic yards of absorption fill material, 240 linear feet of absorption trench, 130 linear feet of curtain drain, 50 linear feet of drain outlet, a temporary access road, tree removal, a Goulds Model SDSI sink drain system, tree removal and site restoration. Three quotes were received for this project. They are for $39,515.00, $39,300.00 and $38,747.72. The lowest quote is within 10% of the staff estimated cost of construction based on the Schedule of Values. The engineer of this project is Rex Sanford, the contractor is Andrew Eberhardt. The Septic Committee recommended that a resolution be brought before the Board of Directors to reimburse Johanna Shafer in the amount not to exceed $38.747.72 to build her septic system.

E. Jennifer Meyer-Anderson Additional Costs: Ms. Meyer-Anderson's project is located in the Town of Andes. It was previously approved for $28,167.60. After construction was completed, the absorption area appeared to become very wet. The engineer's investigation discovered four 4" drainage pipes directly upslope of the disposal area. The discharge of these pipes had completely saturated the disposal area. The engineer has proposed to add a 70 linear foot curtain drain approximately three feet deep to

extend the drains past the disposal area. The contractor has submitted a quote for $1,043.00 to build this curtain drain. This cost appears to be reasonable and justified. This will bring the total project cost to $29,210.60. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Jennifer Meyer-Anderson in the amount not to exceed $1,043.00 for additional costs to build her septic system.

F. John Keane Over $25,000.00: Mr. Keane's project is located in the Town of Walton. His proposed septic system will serve a three bedroom house. Major components of this system will include a 1,000 gallon septic tank, one siphon chamber, 210 linear feet of 4" gravity piping, 339 cubic yards of absorption fill material, one effluent filter, 225 linear feet of absorption trench, 275 linear feet of curtain drain, two animal guards, tree removal, patio removal and site restoration. Three quotes were received for the project. They are for $42,195.00, $39,250.00 and $34,431.00. The lowest quote is within 10% of the staff estimated cost of construction based on the Schedule of Values. The engineer of this project is Steele Brook Engineering, the contractor is LaFever Excavating. The Committee recommended that a resolution be brought before the Board of Directors to reimburse John Keane in the amount not to exceed $34,431.00 to build his septic system.

G. Richard Tazzara Additional Costs: Mr. Tazzara's project is located in the Town of Roxbury. His project was previously approved for $29,995.00. Upon completion of this system it became apparent that additional measures were needed to control surface water. Recent heavy rains made the situation worse. The engineer recommended installing an additional swale to direct water away from the system. He has requested $1,924.00 for this swale and the additional restoration for the area that was disturbed. This cost appears to be reasonable and justified. This will bring the total project cost to $31,919.00. The engineer of this project is Steele Brook Engineering, the contractor is William Walcutt. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Richard Tazzara in the amount not to exceed $1,924.00 for additional costs to build his septic system.

H. Christopher Perry Over $25,000.00: Mr. Perry's project is located in the Town of Delhi. His proposed septic system will serve a five bedroom house. Major components of this system include a 1,500 gallon septic tank, a pump station, 229 linear feet of 4" gravity piping, one distribution box, 456 cubic yards of absorption fill material, one effluent filter, 360 linear feet of absorption trench, 155 linear feet of curtain drain, 130 linear feet of swale and site restoration. Three quotes were received for this project. They are for $46,650.00, $45,000.00 and $42,042.00. The lowest quote is within 10% of the staff estimated cost of construction based on the Schedule of Values. The

engineer of this project is Steele Brook Engineering, the contractor is LaFever Excavating. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Christopher Perry in the amount not to exceed $42,042.00 to build his septic system.

I. Rudolph Landolt Over $25,000.00: Mr. Landolt's project is located in the Town of Stamford. This project began in 2007 when this property was owned by Warren Post. WAC put a hold on the project because of an easement. This issue has been resolved. The design expired during this time and had to be re-certified. Mr. Landolt's proposed septic system will serve a five bedroom house. Major components of this system will include a 1,500 gallon septic tank, 160 linear feet of 4" gravity piping, one distribution box, 635 cubic yards of absorption fill material, one effluent filter, 315 linear feet of absorption trench, 170 linear feet of swale and extensive site restoration. Boring under the road is also required. Three quotes were received for this project. They are for $41,200.00, $41,040.00 and $38,335.90. The lowest quote is within 10% of the staff estimated cost of construction based on the Schedule of Values. The engineer for this project is Tim Bray, the contractor is Russ Hatch. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Rudolph Landolt in the amount not to exceed $38,335.90 to build his septic system.

J. Roderick Hillis Over $25,000.00: Mr. Hillis' project is located in the Town of Stamford. His proposed septic system will serve a five bedroom house. Major components of this system include a 1,500 gallon septic tank, one siphon chamber, 148 linear feet of 4" gravity piping, one distribution box, 383 cubic yards of absorption fill material, 360 linear feet of absorption trench, 100 linear feet of curtain drain, 90 linear feet of swale, 50 linear feet of Schedule 80 sleeve, 10 linear feet of curtain drain outlet piping and extensive site restoration. Boring under the road is also required. Three quotes were received for this project. They are for $44,190.00, $44,000.00 and $36,500.00. The lowest quote is within 10% of the staff estimated cost of construction based on the Schedule of Values. The engineer for this project is Steele Brook Engineering, the contractor is LaFever Excavating. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Roderick Hillis in the amount not to exceed $36,500.00 to build his septic system.

K. Vanessa Jacobs Over $25,000.00: Ms. Jacobs's project is located in the Town of Woodstock. Her proposed septic system will serve a two bedroom house. Major components of this system will include a 1,000 gallon septic tank, pump chamber, 43 linear feet of 4" gravity piping, one distribution box, 230 cubic yards of absorption fill material, one effluent filter, 400 square feet of absorption bed, a 90 foot long retaining wall, tree removal and extensive site restoration. Ms. Jacobs' contractor has submitted

a quote for $28,028.00 to build this system. This is with 10% of the staff estimated cost of construction based on the Schedule of Values. The engineer for this project is Rex Sanford, the contractor is Ashokan Excavating. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Vanessa Jacobs in the amount not to exceed $28,028.00 to build her septic system.

L. Wendy Lorzing Additional Costs: Ms. Lorzing's project is located in the Town of Olive. In 2005 the Board of Directors approved a quote for a new system in the amount of $32,978.90. This system was constructed. Last year it was discovered that there is another system on the back side of the house. The tank had collapsed and the property is currently in violation. The failing system serves just one bathroom (shower, sink and toilet). A new septic tank is proposed to serve just this bathroom. There is no cost effective way to connect this bathroom to the system built in 2005. The plan is to replace the collapsed septic tank and connect to the existing absorption field for this side of the house. The design includes removal of several trees and small loads due to the fact that the lot is small. Three quotes have been received for this project. They are for $12,950.00, $12,444.00 and $10,750.00. The staff estimated cost of construction based on the Schedule of Values is $5,450.80. All three quotes are well above that. The engineer for this project is Rex Sanford. Contractors who have sent quotes are Don Van Kleeck, Chad Davis and Sam Umhey. The homeowner claims to have been unable to get additional quotes for over a year. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Wendy Lorzing in the amount not to exceed $5,450.80 to replace her septic tank.

M. Septic Cluster Update: Leo had no update this month.

N. Septic Maintenance: Leo reviewed activity in this program with the Committee. 37 homeowners were reimbursed for pump outs last month. 145 have been reimbursed this year. 121 had been reimbursed at this time last year. Larry expects more activity in this program this fall.

O. Update: Leo reviewed activity in the Septic Program with the Committee. 21 septic system repairs were paid for last month. The total paid for this year is 61. Construction is way behind this year. Alan informed the Committee that there are 375 in the pipeline.

P. Other: Christopher Nedwick from Environment One and Will Stradling from Siewert Equipment gave a presentation on low pressure sewers. Environment One (E One) is manufactures a pump chamber in Niskayuna, NY. Siewert Equipment sells and services pumps and other equipment and is located in Troy, NY.

In 1967 the General Electric developed a progressive cavity pump intended to separate sewer from stormwater. E One was split off from GE to market these pumps. Mainly the presentation focused on the Model DH071 which is designed for single family homes.

The Model DH071 comes as a unit with a 70 gallon tank that is 93" tall. There are no floats. Pumps are controlled by pressure switches. This increases the reliability of E One pumps. A control panel serves each house in a system. Each house has its own pump station. Tanks are heavy duty polyethylene (HDPE) and need ballast if groundwater is present. There is no routine maintenance on these pumps. They can save installation cost where there is rock excavation is required or other circumstances that make gravity piping difficult.

Over 600,000 E One pumps have been installed around the world. In the watershed they have been used in Boiceville, Pine Hill and Margaretville. Their main use is in municipal collection systems, however they can be used to pump into a septic tank. Pressure is 90 pounds per square inch. E One pumps are NSF tested and UL listed. They can pump almost 2 miles if there is not much elevation change. Replacement cost for a pump is about $3,000.00.

IV. The next Septic Committee meeting was scheduled for October 3, 2017.

V. The meeting was adjourned at 11:17 AM.