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April 26, 2010

Mr. Nate Hendricks
Catskill Watershed Corporation
905 Main St., PO Box 569
Margaretville, NY 12455

Re: Boiceville CWMP – Town of Olive Sewer District
Review of Onteora School Lateral Design – Final Design

Dear Nate:

On behalf of CWC and the Town of Olive, we have reviewed the above-referenced Final Design documents (revised Facility Plan, Drawings and Project Manual) dated March 2010 as prepared by Praetorius and Conrad, P.C. Our review was focused on the compliance of the lateral design with the Town's Sewer Use Law (SUL), which was adopted as Local Law No. 1 of 2007.

1. We have requested and received responses to our comment letter and the DEP/EFC comment letters. We feel the responses to these comment letters have adequately addressed all issues indicated.

2. All of the School facilities will ultimately discharge into the Boiceville system upstream of SMH 3-3. Note that the Town owns and maintains the mainline sewers up to and including SMH 3-5 (the sewers from SMH 3-3 to 3-5 are built on an easement from the School). Note also that there are no other users upstream of SMH 3-3. The balance of the School's wastewater collection system is owned and maintained by the School. All of this is mentioned because the proposed plan involves the School installing, operating, and maintaining a metering manhole within the Town-owned section of sewer between SMH 3-3 and 3-4. While we don't see a technical problem with this, we wanted all parties to understand this. Furthermore, the proposed sampling points from the individual facilities will be at School-owned manholes. On the other hand, the potential combined sampling points (the metering manhole or SMH 3-3) are at Town-owned sewers.

3. We understand that wastewater samples from each individual facility can be collected at the following locations:

PO Box 610
Cobleskill, NY 12043
Tel: 518-234-4028
Fax: 518-234-4613

www.lamontengineers.com
lamont@lamontengineers.com

PO Box 486
Roxbury, NY 12474
Tel: 607-326-3341
Fax: 607-326-3346

High School	SMH-11
Elementary School	SMH -7 or SMH-12
Bus Garage	SMH-12

Each of the individual sampling points consists of an 8" high free fall, which seems adequate for collection of grab samples. Each of the schools is proposed to have a grease trap designed in accordance with the pending NYSDEC Standards. We request further evidence of DEC, DEP and Ulster County Health Department endorsement of the revised Grease Trap sizes before Town approval, due to the pending status of the design criteria. The Bus Garage is proposed to have a Water and Oil Separator to handle the floor drains in the bus washing bays; this seems appropriate.

4. From our experience, the proposed metering manhole needs to be installed level. Also, as the plans include provisions to require flexible couplings, additional notes should be added to point out these transitions and require proper re-aligning with the sloped sewer main pipes. If there is a built-in drop across the prefabricated manhole, it should also be noted on the drawings. Consideration should also be given to providing a suction line from the metering manhole for future collection of combined discharge samples using a composite sampler.

5. We agree with the plans for providing equalization for the new water system backwash flow. However, we feel that the discharge rate of 25 gpm over 10 minute cycles during the night could be reduced somewhat by throttling the effluent valve to minimize surges. Note that nighttime pumping will result in the EQ pumping having little or no impact on the normal peak discharge from the School (which is expected during the day). The actual EQ pumping times and durations need to be discussed with the Boiceville WWTP operators.

6. In regards to the backwash EQ tank, plans for handling and disposal of tank drain water should be identified.

7. Based on the proposed backwash water equalization, we agree with the School's request to eliminate requirements for total flow equalization. However, if additional testing and flow records result in a significant change in the biological loadings or flow increases, additional treatment and/or equalization may be required.

8. In accordance with the Engineer's Report for the Sewer District and the data provided for this connection, the School should be permitted to discharge an average day flow (monthly basis) of 27,000 gpd and a peak hour flow of 75 gpm. This will allow for significant future school expansion, noting that current flow estimates indicate a maximum average flow of around 13,000 gpd and a peak hour flow of approximately 56 gpm.

9. Based on recent observations of rain and snow melt conditions resulting in extraneous flow entering manhole covers, we have required watertight fames and covers as part of the collection system construction in the area of this project. Therefore, we recommend that watertight fames and covers be provided for all new sewer manholes and structures installed with this project.

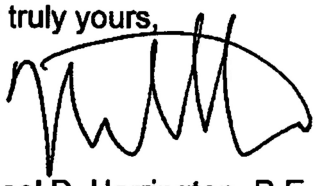
10. Please provide information on the existing collection system that will remain. Has it been tested recently for watertightness? If not, we suggest that some integrity testing be done as part of this project to help ensure that limited Infiltration/Inflow enters the system.

11. The School should immediately begin collecting quality data from the water filtration system backwash waste. We suggest that at least three (3) samples be collected before the end of the school year. After that, sampling should continue monthly until the Boiceville WWTP operators better understand this waste stream. The samples shall be composite samples that represent the average waste stream over the backwash cycle. The samples shall be tested for the following parameters:

    Total Suspended Solids
    Iron
    Manganese
    Chlorine Residual
    pH

Please contact me if you have any questions or comments.

Very truly yours,



Michael D. Harrington, P.E.
Principal Engineer
Lamont Engineers, P.C

cc: Berndt Leifeld, Olive Supervisor.
Kevin Young, Esq.
Lamont Engineers (JP, HL, GH, JL)
Harry Nelson, NYSEFC
Jeff Hogan, Praetorius and Conrad, P.C.
Mike Jonker, LVDV Operations

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