

Attached are photos in taken of the unnamed tributary to Carr Creek that is the receiving stream for the Greenbrier STP. These are the upstream photos. Note there appear to be normal stream conditions except some thin sediment deposits on the substrate.





Overflow point at last manhole in collection system before the sewer main enters the treatment plant (combined flow from the whole system). Note the condition of the manhole, sewage debris visible from previous overflows, and sign posted on the plant fence to identify the untreated discharge point.

This is the location where most of the collection system overflows occur. It is just upstream of the plant outfall point.









This is immediately downstream of the overflow point at the manhole, and upstream of plant discharge point. Note the very heavy algae growth due to nutrient enrichment. Also note this area does not have adequate stream canopy which also promotes the algae growth and increases adverse impact.

In the past they have asked about further channelizing the stream and walling it up or using rip rap through this area by the plant. I have discouraged that idea and advised them of the adverse impact that has (recommended they replace canopy with plantings to stabilize, or use stabilization methods that would allow canopy growth that would help reduce impact).







These are photos showing the outfall and just downstream. The heavy algae growth continues here due to both the permitted discharge and the manhole overflow. The system is an sequencing batch reactor (SBR), so the discharge is not continuous. The periodic discharges are released and flush downstream in a slug, then the stream flow returns to the normal low levels.





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