

## Progress Made:

### **Wet Weather -**

- Completed wet weather sampling on 4 more drains (Kutchey-Thomas, Kutchey-Warren, Centerline Relief #1 and the McCoy Relief). This makes for a total on 11 drains sampled of 32.
- Results indicated that 3 of the 4 drains (all but the Kutchey-Thomas) were above the criteria of 3000 colonies/100ml. This makes for a total of 6 of 11 drains sampled that have exceeded the criteria.

### **Dry Weather -**

- Dry weather sampling was completed on the McCoy Drain (north branch) and the Grobbel Relief Drain (south branch). The results were 1,313 and 86 colonies/100 ml, respectively. This completes the initial dry weather enclosed drain sampling.

### **Follow-up –**

- Follow-up sampling will be performed at the inlet of the Rumpa Drain during the next rain event.
- Follow-up sampling was also performed on the Center Line and Lorraine Drains. Elevated levels of *E. coli* still exist.
- Sanitary sewer plans have been requested from the City of Warren for the drainage areas surrounding the Meirow, Sharkey, Kutchey-Warren Branch and Center Line Relief Branch #1 Drains.

### **Website –**

- The final touches are being made to the website and it will be online by July 5<sup>th</sup>. The website address will be bearcreeknews.com.

## Problems Encountered & Recommended Solutions:

- The rain event of June 18<sup>th</sup> and 19<sup>th</sup> occurred as a low intensity rain and totaled approximately ½ inch in the drainage district. However, the samplers did not trigger (except for the McCoy Relief Drain-see note below) because the set point, which is based on level, was not reached. The set point was subsequently lowered in order to capture the low intensity rain events that total more than ½ inch of rain. If this causes the samplers to trigger on storms that are less than ½ inch total volume, then the samples will be discarded.
- Wet weather samples were captured for the McCoy Relief Drain on June 20<sup>th</sup>. However, upon review of the stormwater level data it was determined that the sampler may have been triggered because of backflow from the Bear Creek Inter-County Drain. Backflow from Bear Creek caused the water level to change rapidly in the McCoy Relief Drain. This level change occurred around the set point, causing the sampler to repeatedly trigger. This problem has been rectified by changing the configuration of the sampler, so that a sustained level must occur within the pipe before a sample is taken. In addition since the purpose of this sampling is to isolate the bacteria levels in each drain during wet weather, it is recommended that the sampler be moved to an appropriate upstream manhole and the drain re-sampled at a later date.

## Activities for Next Reporting Period:

- Continue wet weather sampling as the weather allows.
- Continue follow-up on the Center Line, Lorraine and Hartsig Drains.
- Perform sediment sampling on the open portion of Bear Creek.
- Contact St. Clair Channel Keepers to discuss the laboratory options for Final Verification Sampling.