# PASSIVE TREATMENT SYSTEM O&M INSPECTION REPORT

Rev 01/2007

| | | | |
|---|---|---|---|
| Inspection Date: | | Project Name: | **De Sale Restoration Area – Phase II** |
| Inspected by: | | Municipality: | **Venango Township** |
| Organization: | | County: | **Butler** State: **PA** |
| Time Start: | End: | Project Coordinates: | **41 08' 40''** Lat **79 49' 55''** Long |
| Receiving Stream: | **Unnamed Tributary** | Sub-watershed: | **Seaton Creek** Watershed: **Slippery Rock** |

**Weather (circle one):** Snow Heavy Rain Rain Light Rain Overcast Fair/Sunny **Temp(°F):** ≤32 33-40 41-50 51-60 60+

Is maintenance required? Yes/No If yes, provide explanation:

## INSPECTION SUMMARY

### A. Site Vegetation (Uplands and Associated Slopes)

Overall condition of vegetation on site: 0 1 2 3 4 5 (0=poor, 5=excellent, circle one) (See instructions.)

Is any reseeding required? Yes/No If yes, describe area size and identify location on Site Schematic: _____

_____

_____

### B. Site Access and Parking

Is the access road passable for operation and monitoring? Yes/No?
Does the access road need maintenance? Yes/No?
Describe maintenance performed and remaining (Identify location on Site Schematic.): _____

_____

_____

### C. Vandalism and "Housekeeping"

Is there litter around or in the passive system? Yes/No? If Yes, was the litter picked up? Yes/No?
Is there litter that may be considered hazardous or dangerous that requires special disposal? ? Yes/No?
Is there evidence of vandalism to the passive system? Yes/No?
Additional comments: _____

### D. Ditches, Channels, Spillways

| Channel Identification | Erosion Rills (Y/N) | Debris Present (Y/N) | Maintenance Performed (Y/N) | Maintenance Performed and Remaining (Indicate ditch or spillway by number i.e. 2a = Forebay) |
|---|---|---|---|---|
| 1. Rock-Lined Spillways | | | | |
| a. VFP (W & E) | | | | |
| b. SP | | | | |
| c. Wetland | | | | |
| d. HFLB | | | | |
| 2. Emergency Spillways | | | | |
| a. Forebay | | | | |
| b. VFPE | | | | |
| c. VFPW | | | | |
| 3. Diversion Ditch | | | | |

**E. Passive Treatment System Components**

| Component | Erosion Rills (Y/N) | Berms Stable (Y/N) | Vegetation Successful (Y/N) | Siltation Significant (Y/N) | Water Level Change (Y/N) | Valves Operable (Y/N) | Maintenance Performed and Remaining<br>Indicate which component i.e. VFPE |
|---|---|---|---|---|---|---|---|
| Intake | | | | | | ***NA*** | |
| Forebay | | | | | | | |
| VFPE | | | | | | | |
| VFPW | | | | | | | |
| SP | | | | | | ***NA*** | |
| Wetland | | | | | | ***NA*** | |
| HFLB | | | | | | ***NA*** | |

Is any portion of the stream flowing over the dam? Yes/No? Is the dam in good condition? Yes/No? Does the dam need repaired? Yes/No?
Is the intake system functioning properly? Yes/No? Does the bar guard need cleaned? Yes/No? Was the bar guard cleaned? Yes/No?

Other maintenance conducted or needed ( Broken pipes, HFLB overflowing, etc):_____
_____
_____
_____

**F. Wildlife Utilization**
Animals sighted or tracks observed _____
Invasive plants observed _____
Describe any damage caused to treatment system by wildlife (especially muskrats) and required maintenance: _____
_____

**G VFP Pipe Monitoring** – Use Bucket and Stopwatch method (Indicate no flow by entering "0" in Gallons Measured)
[A maximum of 8 pipes will be discharging for VFPE & VFPW. Pipes named from as-built consisting of VFP, Quadrant, and Layer. For example EAU is VFPE, Quadrant A, Upper Layer.]

| VFPW | | | | | VFPE | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe # | pH | Alk. | Flow | | Pipe # | pH | Alk. | Flow | |
| | | | gals. | sec. | | | | gals. | sec. |
| 1 (WAU) | | | | | 9 (EDL) | | | | |
| 2 (WBU) | | | | | 10 (ECL) | | | | |
| 3 (WCU) | | | | | 11 (EBL) | | | | |
| 4 (WDU) | | | | | 12 (EAL) | | | | |
| 5 (WAL) | | | | | 13 (EDU) | | | | |
| 6 (WBL) | | | | | 14 (ECU) | | | | |
| 7 (WCL) | | | | | 15 (EBU) | | | | |
| 8 (WDL) | | | | | 16 (EAU) | | | | |

Was Vertical Flow Pond East (VFPE) Flushed? Yes/No?
Was Vertical Flow Pond West (VFPW) Flushed? Yes/No?
Are any of the pipes broken? Yes/No?
Additional Comments: _____
_____
_____
_____
_____
_____
_____
_____
_____

**H. Field Water Monitoring and Sample Collection -** Raw water sample locations as marked on plan. For passive components sample effluent.
☐ **-** Not monitored

| Sampling Point | Flow | | pH | Temp (°C) | ORP | Alkalinity (mg/L) | DO (mg/L) | Iron (mg/L) | Comments | Bottle # | Bottle # (total metals) | Bottle # (diss. metals) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | gals | sec. | | | | | | | | | | |
| Up (Raw) | | | | | | | | | | | | |
| Forebay | | | | | | | | | | | | |
| VFPE | | | | | | | | | | | | |
| VFPW | | | | | | | | | | | | |
| Wetland | | | | | | | | | | | | |
| Out/HFLB | | | | | | | | | | | | |
| 410 (Downstream) | | | | | | | | | | | | |