PASSIVE TREATMENT SYSTEM O&M INSPECTION REPORT

Rev 5/2006

Inspection Date:		Project Name:	**Goff Station Restoration Area**
Inspected by:		Municipality:	**Venango Township**
Organization:		County:	**Butler** State: **PA**
Time Start:	End:	Project Coordinates:	**41° 07' 52''** Lat **79° 52' 06''** Long
Receiving Stream:	**Murrin Run**	Subwatershed:	**Seaton Creek** Watershed: **Slippery Rock Creek**

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 by number i.e. 2b = VFP1)
1. Diversion Ditch				
2. Spillways & Channels				
a. 38/39 Channel to VFPs				
b. VFP1				
c. VFP2				
d. SP1				
e. WL1				
f. Upper WL				
g. VFP3 & VFP4				
h. WL2				
i. Bioswale				
j. Final WL				
3. Emergency Spillways				
a. VFP3 & VFP4				
b. FP				

E. Wildlife Utilization

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

F. 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 Indicate which component i.e. SP1
VFP1							
VFP2							
SP1						***N/A***	
WL1						***N/A***	
Upper WL						***N/A***	
40 Collection Pond						***N/A***	
VFP3							
VFP4							
FP							
WL2						***N/A***	
Bioswale						***N/A***	
Final WL						***N/A***	

Additional Comments: _____

_____

G. Flow Measurements for VFP – Use Bucket and Stopwatch method (Indicate no flow by entering "0" in Gallons Measured)
[A maximum of 8 pipes will be discharging for VFP1, VP2, VFP3, VFP4.

VFP1					VFP2					VFP3					VFP4				
Pipe #	pH	Alk.	Flow		Pipe #	pH	Alk.	Flow		Pipe #	pH	Alk.	Flow		Pipe #	pH	Alk.	Flow	
			gals.	sec.				gals.	sec.				gals.	sec.				gals.	sec.
1V					9V					17V					25V				
2V					10V					18V					26V				
3V					11V					19V					27V				
4V					12V					20V					28V				
5V					13V					21V					29V				
6V					14V					22V					30V				
7V					15V					23V					31V				
8V					16V					24V					32V				

Was Vertical Flow Pond 1 (VFP1) Flushed? Yes/No? VFP2? Yes/No? VFP3? Yes/No? VFP4? Yes/No?
Are any of the pipes broken? Yes/No? _____

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.										
ST38 & ST39												
VFP1												
VFP2												
SP1												
WL1												
ST41												
Upper WL												
ST40 & ST42												
VFP3												
VFP4												
WL2												
Bioswale												
Final Wetland												
Murrin Run Up												
Murrin Run Dn												