

**City of Green – NEXUS Environmental Observations**

Date: 09/21/2018

Environmental Inspector(s): Jim St. Al. Z.

Weather & Soil Conditions: Sunny; 86°F; 10-15 mph winds; dry and wet soils

Observed from: Road R/W Within NEXUS R/W

Item/Location	BMPs	Y	N	N/A	Notes
Street Cleaning	Street Cleaning Evident	X			Regular Street cleaning evident. Street cleaning observed on Koons Rd during the walk-through.
	No Tracking Observed	X			
	Street Cleaning Equipment Staged	X			
Rock Entrances	Properly Topdressed	X			
	Check Dams in Ditchline	X			
Sediment Control Devices	Properly Installed	X			Maintenance of erosion/sediment control devices ongoing (*see notes for details and maintenance was ongoing the same day).
	Functional	X			
	No Maintenance Recommended		X		
	No Additional SCD Recommended	X			
Stabilization Timeframes	No Areas Idle >14 Days	X			
	No Areas Near S and W Idle	X			
	No Additional TS Recommended	X			
Equipment Bridges	Fabric and Sideboards Intact	X			Sideboards repaired at Nimisila Creek Crossing since the last walk-through.
	Equipment Gates Installed	X			
	Free of Sediment	X			
	No Maintenance Recommended	X			
Streams and Wetlands	Equipment Bridge Installed (S)	X			All stream and wetland crossings had been completed. Wetlands A14-112 and A16-1 were awaiting backfill. Several stream and wetland crossings were awaiting restoration.
	Filter Fabric and Sideboards	X			
	Timber Mats Utilized (W)	X			
	Equipment Gates Re-installed	X			
	E/SCDs Installed and Functional	X			
	SCD Reinstalled After Crossing	X			
	No Turbidity or Sedimentation	X			
General R/W	Maintained R/W Restrictions	X			Dewatering activity through filter bags and straw bale/filter fabric structures evident throughout the City of Green. The well-point system west of S Arlington was active. All remaining well-point systems had been demobilized. Pumps and fuel cans were stored in secondary containment near environmental resources. Waterbars, sumps, and J-hooks were installed and functioning. Signage remained mostly installed and visible.
	Good Housekeeping	X			
	Topsoil Segregated	X			
	E/SCD Functional	X			
	No SCD Maintenance Needed		X		
	Proper Dewatering	X			
	Water Bars Installed	X			
	RUMA Signage Installed	X			
Trenching And Lowering In	S&W Impacts Avoided			X	Tie-in activity (stream and wetland, driveway, and utility crossings, etc.) had been completed throughout the City of Green.
	Timber Matting Utilized	X			
	Entrances Topdressed	X			
	Street Cleaning Evident	X			
	Soil Stored Separate from Topsoil	X			
Restoration	Trench Plugs Installed	X			Cleanup and restoration in progress along the ROW east of Mile Post 37.7 (Koons Rd) during the site walk-through.
	Topsoil Topmost Layer	X			
	E/SCDs Reinstalled	X			
	No Areas Idle >14 Days	X			

**BMP:** Best Management Practice **CWC:** Concrete Wash Containment **DB:** Drivable Berm **EB:** Equipment Bridge **ECM:** Erosion Control Matting **EG:** Equipment Gate **E/SCD:** Erosion/Sediment Control Device **FS:** Filter Sock **GH:** Good Housekeeping **GR:** General Recommendation **H/SR:** Hard/Soft Restoration **IP:** Inlet Protection **MD:** Minimized Disturbance **PRT:** Potential Root Tree **RCE:** Rock Construction Entrance **S:** Stream **SB:** Straw Bale **SF:** Silt Fence **TM:** Timber Mat **TP:** Trench Plug **TS:** Temporary Stabilization **VB:** Vegetated Buffer **W:** Wetland **WB:** Water Bar **WSC:** Wet-saw Slurry Containment

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**Key Observations:** 1. All stream and wetland crossings had been completed since the last walk-through. Several stream crossings were awaiting bank stabilization. 2. Erosion and sediment control device maintenance required at multiple locations within the City of Green.

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**Notes:**

A full site walk-through was performed with Randy Burke (Nexus). The entire project area within the City of Green was observed except for the Hydrotest Release location. The Hydrotest Release location could not be observed due to the amount of activity occurring within the area.

Tie-in activity had been completed throughout the City of Green since the last walk-through. The trench had been backfilled along the entire R/W except in wetlands A14-122 and A16-1.

ROW cleanup and restoration was in progress throughout the ROW east of Mile Post (MP) 37.7 (eastern Koons Rd crossing).

- Final grade activity ongoing near MP 34.8 (Selzer Property).
- Crew replacing topsoil in Agricultural Field just west of I-77 during the walk-through.
- Grade activity in progress near MP 36.5.
- Crew replacing topsoil in field between Massillon and Koons Rd (MP 37.6)
- Restoration completed along the ROW east of MP 36.4. Seed applied, straw applied to upland areas, sediment controls re-installed, timber matting removed, and good germination observed.
- Excellent germination observed between Mayfair Rd and I-77.

Coating activity was observed just north of the Greensburg Rd crossing (MP 36.8), north of the western Koons Rd Crossing (MP 39), and in Wetland A16-1 (MP 40.7).

1. All stream and wetland crossings had been completed since the last walk-through.
  - Sediment control devices remained installed and functional along stream and wetland boundaries as needed.
  - Topsoil was segregated in wetlands and streams during tie-in activity to limit the duration of disturbance and backfilled as topmost layer.
  - Trench plugs had been installed at stream and wetland boundaries as needed prior to backfill.
  - Equipment bridges and timber matting continues to be utilized for equipment travel through wetlands and streams with equipment gates installed or staged for re-installation as needed.
- Wetland A14-112 and Stream A14-112-S1 at MP 39.9 were awaiting backfill.
  - Topsoil segregated.
  - Ongoing activity occurring off timber matting.
  - Dewatering occurring into a straw bale and filter fabric dewatering structure via well-point system.
  - River weights installed.

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- Wetland A16-1 crossing at MP 40.7 awaiting backfill.
  - Topsoil segregated where possible.
  - Coating activity occurring off timber matting.
  - River weights installed as needed.
  - Dewatering occurring into filter bag and straw bale structures.
  - Silt fence installed as needed.
- Stream and wetland crossings properly restored following tie-in completion and awaiting timber mat removal and final cleanup.
  - A17-9-S1 (MP 34.9)
  - C15-104 (MP 36.5)
  - C15-106 & C15-106-S1 (MP 36.7)
  - C15-122 & C15-122-S1 (MP 37.1)
  - C15-123 (MP 38)
  - C15-113 (MP 38.7)
  - F15-1-S1 (MP 39.3)
  - A14-112-S1-A (MP 39.5)
  - A14-112 (S Arlington, MP 39.7) awaiting removal of sheet piling for restoration.
  - B15-128 (MP 40)
  - A14-122 S&W Complex (MP 41.7 - 42.1)
- Restoration and final ROW cleanup completed in streams and wetlands east of Mile Post 36.4 (except stream at MP 34.9).
  - Topsoil segregated and backfilled as topmost layer.
  - Timber matting and bridges removed.
  - Wetland seed (Annual Rye per FERC) applied. Erosion Control Matting (ECM) installed along stream banks.
  - Sediment control devices re-installed as needed.
  - Good germination observed.

2. Sediment control maintenance was required at several locations within the City of Green following cleanup activity and at several streams and wetlands following tie-in completion. Randy Burke contacted Nexus EIs and some maintenance was underway during the walk-through.

- Silt fence damaged at MP 36.1 in Wetland C15-104.
- Banks of Stream C15-120-S1 (MP 37.4) awaiting ECM installation.
- Silt fence damaged at MP 37.5, 37.6, and 37.7 just west of Massillon Rd.
- Banks of Stream A17-5-S1 (MP 38.3) awaiting ECM installation.
- Silt fence overtopped and minor sedimentation off ROW at MP 38.7.
- Silt fence damaged at MP 39.4.
- Silt fence overtopped and minor sedimentation off ROW at MP 40.6 and 40.7.
- Silt fence overtopped and minor sedimentation off ROW at MP 41.5.
- Silt fence overtopped at MP 41.6 just west of Comet Rd.
- Silt fence damaged at MP 41.8 and 41.9.

Erosion and sediment control maintenance items from the 08/31/2018 walk-through had been completed as needed since the last walk-through.

- ECM installed on the banks of Stream A15-71-S1 near MP 34.7.
- Silt fence had been re-installed at stream and wetland crossings between I-77 and Greensburg Rd.
- Sediment controls re-installed where previously damaged at Mile Post 36.2.
- Silt fence along the west boundary of the A17-5 stream and wetland complex near MP 38.3 had been re-installed.
  - The waterbar upslope had been repaired.
  - A large sump had been installed upslope of the silt fence to prevent additional overtopping.
- Silt fence had been repaired at MP 41.6 just east of Comet Rd.
- Sideboard of Nimisila Creek equipment bridge had been repaired at MP 41.7.
- ECM installed on banks of Nimisila Creek and sediment controls re-installed.
- Gravel from river weights in wetland at MP 41.7 and 41.9 had been removed.
- Stream 5 had been backfilled and properly restored with ECM.

Dewatering was ongoing via well-point system west of S Arlington Rd. Well-point system east of S Arlington Rd in Wetland A14-112 had been deconstructed and demobilized.

- Well-point dewatering was occurring into filter bag and straw bale dewatering structure at MP 39.9.
- Evidence of dewatering into filter bags and straw bale dewatering structures observed throughout the entire City of Green.
- Fuel cans and pumps for all dewatering were stored in secondary containment near environmental resources.

De-couplers had been installed at Mile Posts 34.6, 34.8, 35, 35.2, 35.4, 35.6, 36, 36.3, 36.4, 36.5, 41.4, and 41.5.

Above ground valve installation just north of Killinger Rd was ongoing. Additional concrete and above ground work expected.

Crews observed utilizing equipment wash station at MP 38.8 prior to entering Singer Lake Bog area.

Waterbars and drivable berms remained installed as needed along slopes and at stream and wetland boundaries as needed.

- Sumps and silt fence J-hooks remained installed at the low end of the waterbars to treat stormwater prior to it leaving the ROW. Sumps and J-hooks were functional and regular maintenance was evident.

Turtle Exclusion Fencing remained installed in Spotted Turtle Exclusion Areas.

- Wire fencing was utilized in areas of water flow to prevent flooding issues.
- Silt fencing had proper ground contact as needed.
- Turtle Exclusion fencing to remain installed until R/W re-vegetates per Randy Burke.

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Regular street cleaning was evident throughout the entire City of Green. Street cleaning was observed at Koons Rd with a power broom during the walk-through.

General environmental observations from the site visit:

- Tie-in activities had been completed throughout the entire City of Green.
- Several stream and wetland crossings were awaiting backfill and restoration.
- ROW cleanup and restoration was in progress east of Mile Post 37.7 during the walk-through.
- Well-point system near S Arlington Rd remained active with dewatering occurring into filter bags and dewatering structures.
- Sediment control device maintenance and re-installation was required at several locations along the ROW and Nexus EIs were notified same day.
- Regular street cleaning was evident throughout the entire City of Green.
- Silt fence and/or Belted Silt Retention Fence (reinforced silt fence) remained installed and functional along wetland and stream boundaries, within residential areas, and downslope of several agricultural fields.
- Timber mats remain installed at the equipment crossing locations of streams and wetlands. Temporary equipment gates were observed at stream and wetland crossings. Signage also mostly remained installed at the wetlands and streams which included refueling guidance due to the presence of environmental resources.

Overall, our observations were satisfactory related to industry standards.