

City of Green – NEXUS Environmental Observations

Date: 08/10/2018

Environmental Inspector(s): *Ad Fel Jim Gf*

Weather & Soil Conditions: Sun and Clouds; 86°F; 5-10 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.
	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). Nexus EIs notified by Randy Burke (Nexus) during site walk-through 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			New filter sock equipment gates observed at Stream and Wetland crossings between I-77 and Greensburg Rd since the last site walk-through.
	Equipment Gates Installed	X			
	Free of Sediment	X			
	No Maintenance Recommended	X			
Streams and Wetlands	Equipment Bridge Installed (S)	X			Wetland Crossing in progress during the site visit at A15-90 west of I-77. All Stream and Wetland Crossings completed east of Mayfair Rd since the last site visit. Re-installation of erosion and sediment controls in progress during the walk-through (*see notes for details). Silt fence reinstalled at previously completed Wetland Crossings and seed applied.
	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			
Maintained R/W Restrictions	X				
General R/W	Good Housekeeping	X			Dewatering activity through filter bags, straw bale/filter fabric structures, and sprinkler systems evident throughout the entire City of Green. Pumps and fuel cans were stored in secondary containment near environmental resources. Waterbars, sumps, and J-hooks were installed and functioning. Signage remained installed and was properly visible.
	Topsoil Segregated	X			
	E/SCD Functional	X			
	No SCD Maintenance Needed		X		
	Proper Dewatering	X			
	Water Bars Installed	X			
	RUMA Signage Installed	X			
	S&W Signage Installed	X			
Refueling Signage Installed	X				
Mainline Trenching And Lowering In	S&W Impacts Avoided	X			Majority of mainline trenching appeared completed. Pipe had been lowered in within upland areas and the trench mostly backfilled along the ROW east of Comet Rd except for areas awaiting tie-in activity (streams and wetlands, driveways, utilities, etc.).
	Timber Matting Utilized	X			
	Entrances Topdressed	X			
	Street Cleaning Evident	X			
	Soil Stored Separate from Topsoil	X			
Restoration	Trench Plugs Installed	X			Restoration in progress along the ROW east of Mayfair Rd during the site walk-through. Maintenance and reinstallation E/SCDs active during the site visit.
	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. Wetland A15-90 crossing was in progress during the walk-through and several had been completed prior to the walk-through. 2. Erosion and sediment control maintenance required at one location within the City of Green.

Notes:

A full site walk-through was performed with Randy Burke (Nexus). The entire project area within the City of Green was observed.

The mainline trench had been excavated along the entire upland ROW east of Comet Rd. Areas awaiting trenching included the upland ROW west of Comet Rd and tie-in areas such as stream and wetland crossings, utility crossings, driveway crossings, etc.

- Trench soil was stored separately from topsoil.
- No impacts to streams or wetlands related to mainline trenching observed.
- Excavation in progress during the site visit near Comet Rd in preparation for road crossing (expected Monday 08/13).

Mainline pipe had been lowered in throughout the City of Green east of Comet Rd.

- Lowering in was in progress east of the I-77 road bore near Mile Post 35.3.
- Backfill of trench in progress near Mile Post 40.5 south of Killinger Rd.
- Trench awaiting backfill near tie-in activity so the pipe remains accessible.
- Several foam trench breakers were observed where the trench was awaiting backfill.
- Topsoil remained separate and no soil mixing was observed.

The road bore under I-77 had been completed since the last site walk-through. Tie-in activity was in progress east and west of I-77 during the site visit. Dewatering in the area was not observed during the site visit.

The Nimisila Reservoir HDD was previously completed and the drill rig previously demobilized.

- Frac-Tanks had been removed since the last site visit.
- Mainline had been tied-in to bore pipe since the last walk-through.

Welding crews observed east of Massillon Rd and just north of Killinger Rd.

1. Trench excavation was in progress in Wetland A15-90 at Mile Post 39.6 west of I-77 during the site visit.

- Impacts to wetland remained within restricted ROW limits.
 - Topsoil segregated and stored separately.
 - Activity occurring on timber matting.
- Wetland A15-71 crossing at Mile Posts 34.5 and 34.7 recently completed.
 - Topsoil segregated. Backfill of topsoil as topmost layer active during the site visit.
 - Work occurred on timber matting.
 - Impacts remained within restricted ROW limits.
 - Silt fence re-installation in progress at Wetland boundaries, environmental crew observed in the area.
 - Application of wetland seed (Annual Rye per FERC) ongoing.

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- Stream Crossing at A15-71-S1 near Mile Post 34.7 recently completed.
 - Impacts remained within restricted ROW limits.
 - Topsoil segregated and backfilled as topmost layer.
 - Activity occurred on timber matting.
 - Silt fence re-installation and bank stabilization in progress at stream boundaries, environmental crew observed in the area.

- Stream Crossing completed at A17-9-S1 near Mile Post 34.9 completed since the last walk-through.
 - Impacts remained within restricted ROW limits.
 - Topsoil segregated and backfilled as topmost layer.
 - Activity occurred on timber matting.
 - Silt fence re-installed and stream banks stabilized with erosion control matting.

- Wetland crossings active during the last site visit completed (A15-71 at Mile Post 34.3, A15-91 at Mile Post 35.9, and C15-104 at Mile Post 36.2 and 36.5).
 - Impacts remained within restricted ROW limits.
 - Work had occurred on timber matting.
 - Topsoil segregated and backfilled as topmost layer.
 - Silt fence re-installed.
 - Wetland seed (Annual Rye) applied per FERC regulations.

No additional stream or wetland crossings were observed. All impacts to remaining streams and wetlands were minimal.

- No impacts to streams or wetlands related to mainline trenching activity or trench soil storage were observed.
- Sediment control devices remained installed and functional along stream and wetland boundaries as needed.
- Sheet piling installation in wetlands and streams appeared completed as needed within the City of Green.
- Topsoil will be segregated in wetlands and streams during tie-in activity to limit the duration of disturbance.
- Impacts to Wetland A14-112 near Arlington Rd remained minimal upon completion of the road bore activity. Topsoil had been segregated and stored separately.
- 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.
- Good containment and cleanup of sandblast material noted. Additional/as needed cleanup will occur prior to ROW cleanup per Randy Burke.

2. Sediment control maintenance was required at one location within the City of Green following trenching activity and at several streams and wetlands following tie-in completion. Randy Burke notified Nexus EIs during the site walk-through and maintenance was ongoing the same day.

- Trench soil had overtopped the silt fence perimeter near Mile Post 34.8.
 - Stream and wetland crossings between Mayfair and the rail road tracks were awaiting silt fence re-installation upon completion of ROW cleanup (east of Mile Post 35). Active sediment control maintenance and re-installation observed in the area during the walkthrough.
- Sediment control maintenance had been completed as expected at all areas documented during the 07/27/2018 walk-through.
 - Silt fence perimeter repaired near Mile Post 34.3.
 - Silt fence re-installed at Wetland C15-104 crossing north of Greensburg Rd (Mile Post 36.5).
 - Silt fence had been repaired along the south boundary of C15-106 north of Greensburg Rd (Mile Post 36.7).
 - Silt fence perimeter repaired along the slope near Mile Post 40.5.
 - Additional straw bale reinforced silt fence had been installed at Mile Post 40.3 since the last walk-through.

Well-point systems east of Mayfair Rd (including at Mile Post 34.7) had been demobilized since the last site walk-through. No dewatering activity observed in the area.

- All pumps had been demobilized, filter bag and straw bale dewatering structures remained and are expected to be removed during ROW cleanup.

Dewatering was ongoing via well-point system west of Arlington Rd. Dewatering was occurring into filter bag and straw bale dewatering structures.

- Evidence of dewatering into filter bags and straw bale dewatering structures observed throughout the entire City of Green.
- An additional sprinkler dewatering system was observed at S Main since the last walk-through.
- Fuel cans and pumps for all dewatering were stored in secondary containment near environmental resources.

Water bars 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 water bars 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.

Regular street cleaning was evident throughout the entire City of Green.

General environmental observations from the site visit:

- Trenching and lowering in of mainline pipe occurred along much of the ROW within the City of Green east of Comet Rd.
- Excavation was in progress near Comet Rd in prep for road crossing (expected Monday 08/13/18).
- I-77 road bore had been completed. Mainline tie-ins to I-77 road bore pipe east and west of I-77 were in progress. Mainline tie-ins to Nimisila HDD pipe had been completed since the last visit.
- One wetland crossing was in progress and several stream and wetland crossings had been completed. Proper stream and wetland crossing methods were observed.
- All pipe installation east of Mayfair Rd completed. ROW cleanup and re-installation of erosion and sediment controls was in progress during the site visit.
- All well-point systems had been removed east of Mayfair Rd. Well-point system near Arlington Rd remained active with dewatering occurring into filter bags and dewatering structures.
- Sediment control maintenance and re-installation was required in a few 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 as visible from roadways. Temporary equipment gates were observed at stream and wetland crossings. Signage also remained installed at the wetlands and streams which included refueling guidance due to the presence of environmental resources.
- Trench breaker installation was observed sporadically along the ROW. Permanent trench breakers are barriers installed in the open trench around the pipe and are intended to slow subsurface water flow and erosion along the trench and around the pipe in sloping terrain.

Overall, our observations were satisfactory related to industry standards.