

**Drain Tile Removal - Summary Report
Green Point Landfill – RACER Trust**

Project Name: Green Point Landfill – RACER Trust **Date:** Tuesday, July 16, 2013
Project Location: Saginaw, MI **Project #:** B0050096.2013
Task: Drain Tile Removal
Contractor: Young's Environmental Cleanup, Inc.
Weather: 80°F, sunny, hot, and humid

Summary of Work:

Upon arriving at the site and moving towards the drain tile location, ARCADIS and YECI walked the last part of the path to the location of the drain tile to ensure access for vehicles. To locate the drain tile, a test excavation was performed approximately 10 feet south of monitoring well TMW-1 where the drain tile was previously encountered during test pit activities conducted in 2000. The drain tile was encountered approximately 3 feet below ground surface (bgs). Based on the angle of the drain tile uncovered, YECI positioned a mini-excavator near the fenced property line to the west.

YECI encountered the 6-inch diameter drain tile approximately 4 feet bgs at the fenced property line. The drain tile appeared to be installed in 1 to 2 feet sections. YECI removed approximately 10 feet of piping from the fence line eastward. Water flow was observed coming from the west end open pipe adjacent to the fence line. In order to seal the west end pipe location, YECI placed clay from the surrounding excavation deeper inside the pipe to stop water flow, then followed with hydraulic cement, quick-crete (1.5 bags dry), and finally two bags of bentonite. To seal the east end pipe location, YECI placed hydraulic cement inside the pipe to seal then placed two bags of bentonite over the sealed pipe location.

After sealing of the pipe ends, YECI backfilled the test excavation area and the excavation by the fence line. Topsoil and seed were added to these locations, followed by placement of straw matting. ARCADIS signed a bill of lading on behalf of RACER Trust for YECI to transport the removed pipe pieces to the Waste Management Peoples Landfill in Saginaw, Michigan.

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View of drain tile at west end adjacent to fence line.



View of drain tile section uncovered.



View of west end of pipe opening adjacent to fence.



View of tile sections uncovered at east end.

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View of east end of pipe opening.



Hydraulic cement and bentonite placed at east end of pipe.



View of bentonite placed on east end pipe.



YECI placing clay pieces inside of west end pipe opening to stop water flow.

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Hydraulic cement placed over opening at west end (see arrow).



Quick-crete placed over opening at west end.



View of bentonite placed over opening at west end.



Topsoil and seed placed at excavation by fence line.

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Topsoil and seed placed at test excavation area.



Straw matting placed at excavation by fence line.

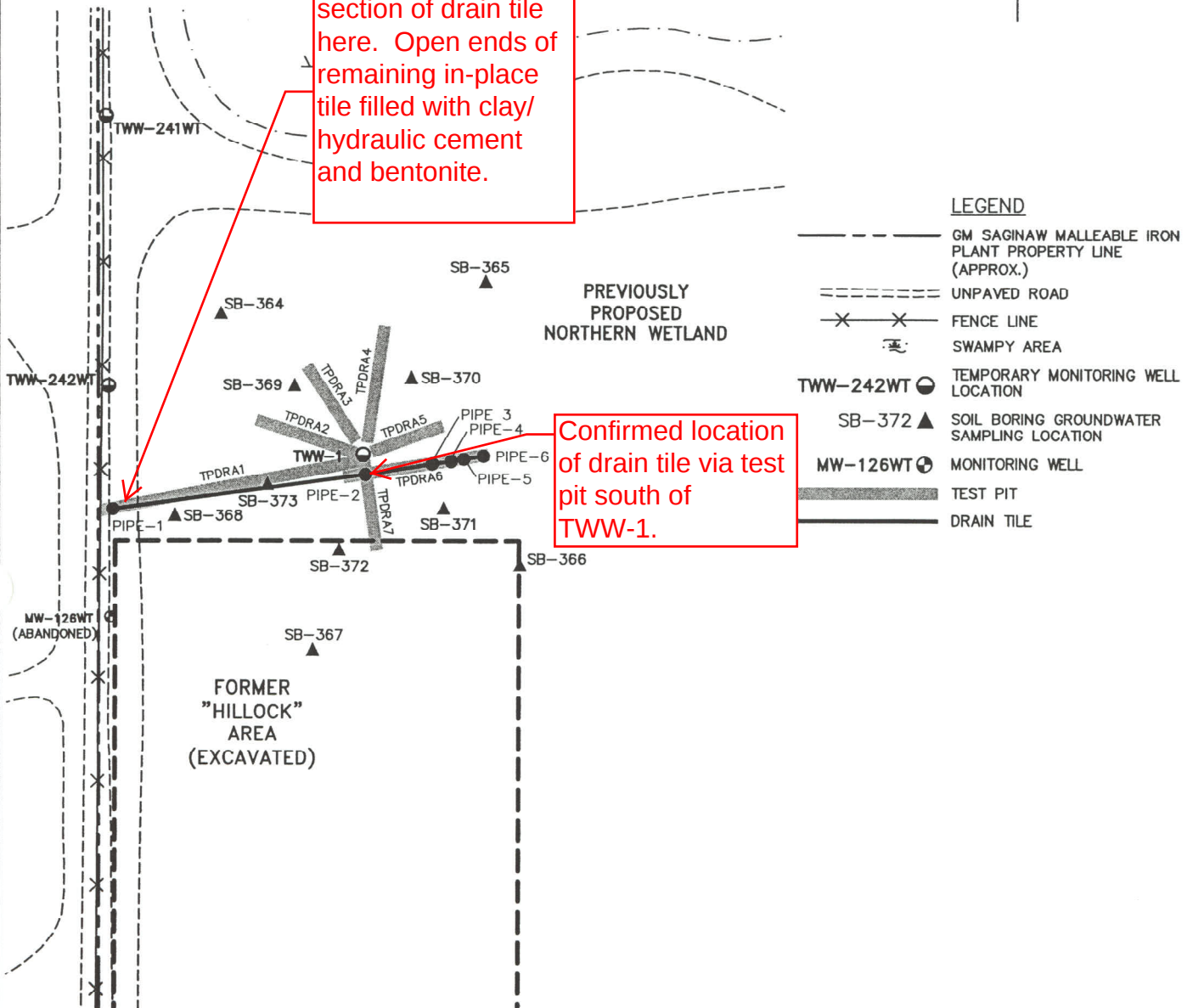


Straw matting placed at test excavation area.

Additional notes from drain tile removal work completed on July 16, 2013.

Removed 10-foot section of drain tile here. Open ends of remaining in-place tile filled with clay/hydraulic cement and bentonite.

Confirmed location of drain tile via test pit south of TWW-1.



SAGINAW MALLEABLE IRON PLANT PROPERTY,
GREEN POINT LANDFILL,
AND DRUM REMEDIATION AREA
SAGINAW, MICHIGAN

REMEDIAL INVESTIGATION

**DRA SUPPLEMENTAL MONITORING
WELL, SOIL BORING, AND TEST PIT
LOCATION MAP**

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2-6

L: ON= * OFF= REF*
P: STD AP.PCP ROTATE 180°
11/16/00 SYR-54-NES DMW RCA
27608090/SMI-RI/27608C17.DWG

