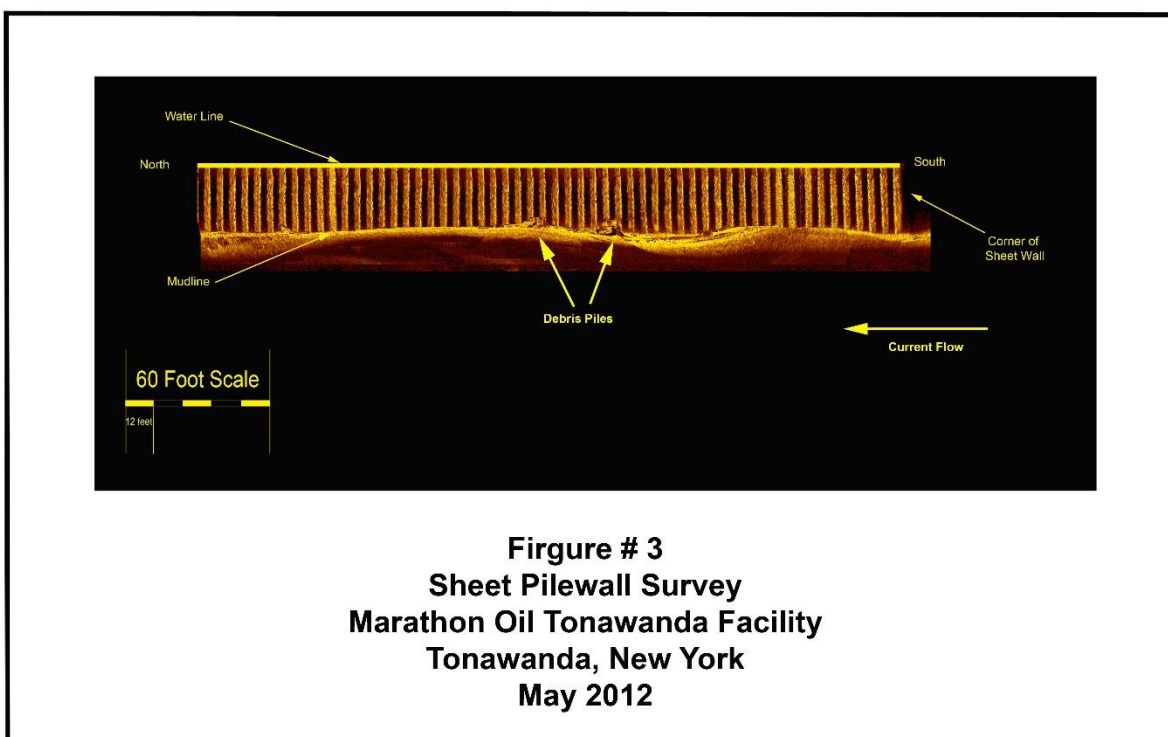


**Marathon Oil
Tonawanda Port Facility
Tonawanda, New York**

AUWA was obtained by McCulley Eastman Associates to do a baseline survey of 400 feet of a sheet pile wall and mooring cell at the Marathon Oil port facility in Tonawanda New York. The underwater imaging of the mooring cell and sheet wall was conducted using the MS 1000 sector scan. Only one type of image technique was used to capture the images that being the vertical imaging. The type of image used was the vertical image. Three different ranges or distances were used to image the mooring cell and sheet wall. The purpose of the different ranges was to obtain full coverage of the river bottom, identify debris around or on the structures and classifying the impact of the local scour events on them. The vertical imaging allowed us to capture the side faces of the pier and any associated defects. Using all these images, we are able to create a mosaic of the mooring cell and sheet wall.



**Figure # 3
Sheet Pilewall Survey
Marathon Oil Tonawanda Facility
Tonawanda, New York
May 2012**