

New York State Department of Environmental
Conservation – Division of Environmental
Remediation

TIOGA CASTINGS SITE SEMI- ANNUAL REPORT

Third Quarter 2019

September 2019

A large orange geometric graphic consisting of a triangle and a rectangle, with a white diagonal line and a white horizontal line, located in the bottom right corner of the page.

TIOGA CASTINGS SITE SEMI-ANNUAL REPORT

Third Quarter 2019



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Our Ref.:

30001350 (00266403.0000)

Date:

September 2019

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1 INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) has issued a Work Assignment (# D004443-8) to Arcadis CE, Inc. (Arcadis), for Operation, Maintenance, and Monitoring at the Tioga Castings Site (NYSDEC site number 7-54-012) in New York State. This Semi-Annual Report has been prepared in accordance with the NYSDEC-approved Site Management Plan (SMP) to summarize third quarter 2019 operation and maintenance (O&M) activities.

2 SITE DESCRIPTION

The Tioga Castings site is located on Foundry Street, Owego, Broome County, New York (Figure 2-1). The former foundry buildings have been razed, leaving the concrete slabs in-place. A capped, closed landfill is present at the western end of the site. In August 2011, the boundaries of the site (originally encompassing approximately seven acres) were reduced by the NYSDEC to only include the approximately one-acre landfill (Figure 2-2).

3 OPERATION AND MAINTENANCE

Operation and Maintenance (O&M) activities were performed on July 12, 2019 in accordance with the SMP. A Post Closure O&M Checklist (Appendix A) was used to document the status of the landfill. Photographs taken during the inspection are provided in Appendix B. The next O&M event is scheduled to be performed during the first quarter 2020.

3.1 Landfill Security

The landfill perimeter fence, entry gate, and locks were inspected for proper operation and signs of deterioration. As indicated in the O&M Checklist, no problems were observed with the integrity of these components. In addition, the Foundry Street entry gate warning sign was in place and in acceptable condition.

3.2 Landfill Cap Maintenance

A visual inspection of the landfill cap was performed to assess the landfill for burrowing rodents, erosion, woody vegetation, and settlement. As shown on the O&M Checklist (Appendix A) and site photographs (Appendix B), the condition of the landfill cap appeared to be in acceptable condition, however, brush was growing along the perimeter of the landfill in the rip-rap swale.

4 GROUNDWATER MONITORING PROGRAM

Groundwater samples are collected on a five-quarter sampling interval in accordance with the SMP. Groundwater sampling was conducted on October 18, 2018 to provide information on groundwater quality, monitor contaminant migration in groundwater, and assess hydrogeologic site conditions, including groundwater flow. The next groundwater sampling event is scheduled to occur during the first quarter 2020.

5 SUMMARY

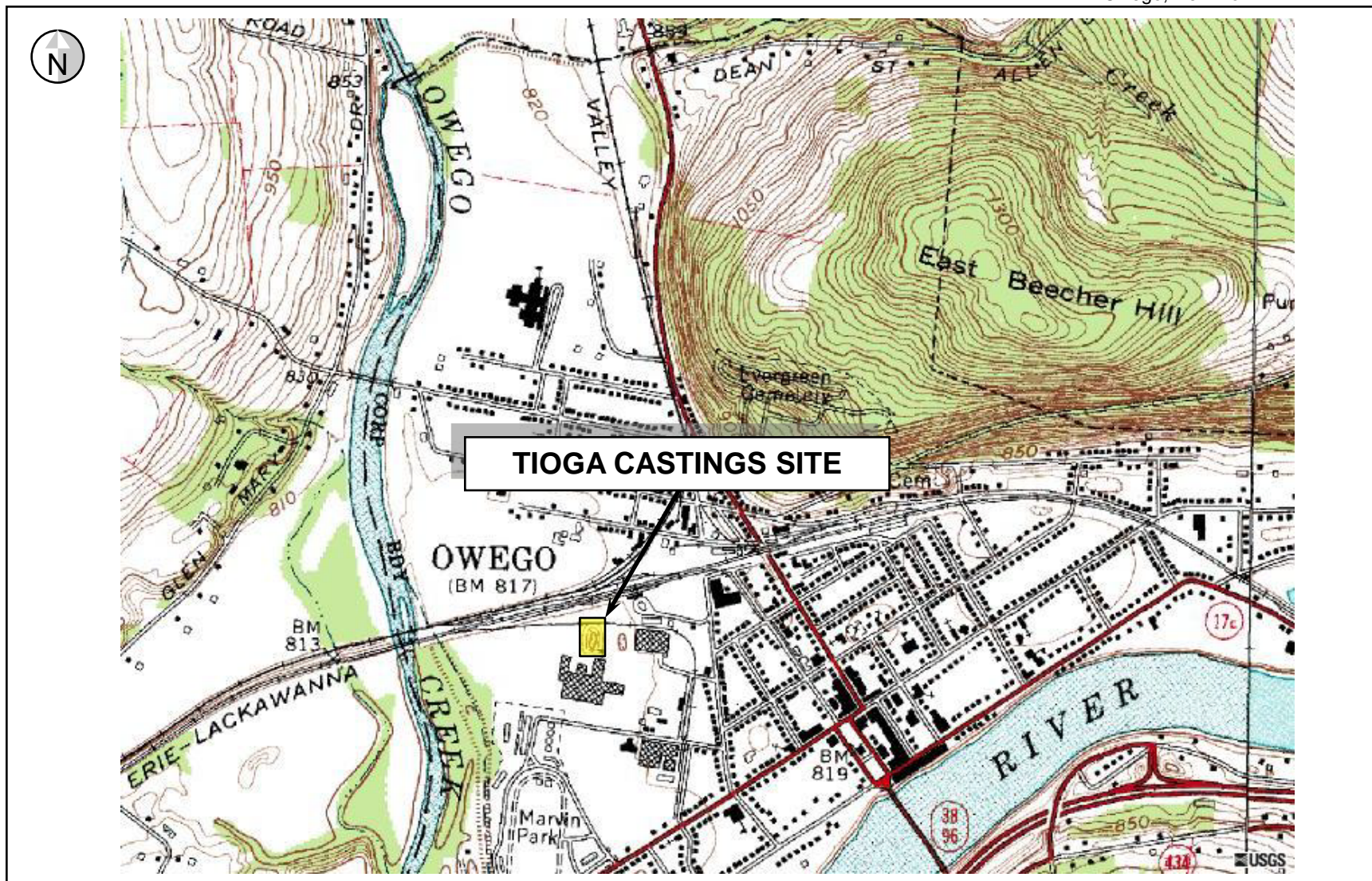
Landfill O&M activities were conducted in accordance with the SMP during the third quarter 2019. No significant issues were reported with the condition of the perimeter fence or the condition of the landfill. The next O&M and monitoring event is scheduled for the first quarter 2020.

6 REFERENCES

Arcadis 2015. Site Management Plan, Tioga Castings Site, Oswego, Tioga County, NY. Site Number 7-54-012. January 2015.

FIGURES

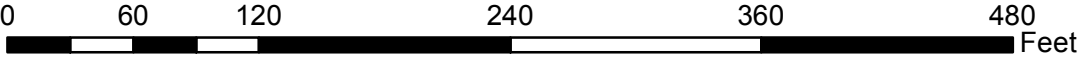






Legend

- Monitoring Well
- Abandoned Well
- Former Casting Facility
- On-Site Landfill/Site Boundary
- Approximate Parcel Boundary



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SITE NUMBER 754012
Tioga Casting Facility, Owego, New York

SITE FEATURES

ARCADIS

FIGURE
2-2

Note: Site feature boundaries are approximate.

APPENDIX A

Operation and Maintenance Check List



TIOGA CASTINGS SITE LANDFILL
Post-Closure Operation and Maintenance Checklist

Inspected by: Lance D. Whalen

Date: 7/12/2019 Time: 1330

Weather Conditions: Sunny, 84°F

LANDFILL COVER SYSTEM

Erosion	<u> </u>	YES	<u> X </u>	NO
Holes or Cracks in Cover	<u> </u>	YES	<u> X </u>	NO
Cap Settlement	<u> </u>	YES	<u> X </u>	NO
Ponded Water or Wet Areas	<u> </u>	YES	<u> X </u>	NO
Burrowing Rodents	<u> </u>	YES	<u> X </u>	NO
Sparse Vegetation/Bare Soil	<u> </u>	YES	<u> X </u>	NO
Brush or Other Woody Vegetation,	<u> </u>	YES	<u> X </u>	NO
Excessive Weeds in Grass	<u> </u>	YES	<u> X </u>	NO
Grass Mowed	<u> </u>	YES	<u> X </u>	NO

DRAINAGE DITCHES

Erosion	<u> </u>	YES	<u> X </u>	NO
Obstructions	<u> </u>	YES	<u> X </u>	NO
Sediment Accumulation	<u> </u>	YES	<u> X </u>	NO
Evidence of Surcharging	<u> </u>	YES	<u> X </u>	NO
Presence of Brush	<u> X </u>	YES	<u> </u>	NO

Comments: All fences are clear of brush and grass, wells are clear.

Continued

FENCING

Warning Signs	<u> X </u>	OK	<u> </u>	OTHER
Gates and Locks	<u> X </u>	OK	<u> </u>	OTHER
Posts	<u> X </u>	OK	<u> </u>	OTHER
Top Tension Wire	<u> X </u>	OK	<u> </u>	OTHER
Barbed Wire	<u> X </u>	OK	<u> </u>	OTHER

Comments: All clear, no issues

MONITORING WELLS

Capped and Locked	<u> X </u>	YES	<u> </u>	NO
Casing Damage	<u> </u>	YES	<u> X </u>	NO

Comments: _____

INSPECTOR'S SIGNATURE

Lance D. Whalen

DATE 7/12/2019

APPENDIX B

Project Photographs



Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 1

Date:
July 12, 2019

Description:
Center of Landfill Cap – Facing
Northeast



Photo: 2

Date:
July 12, 2019

Description:
Center of Landfill Cap – Facing
Northwest

Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 3

Date:
July 12, 2019

Description:
Center of Landfill Cap – Facing
Southeast



Photo: 4

Date:
July 12, 2019

Description:
Center of Landfill Cap – Facing
Southwest

Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 5

Date:
July 12, 2019

Description:
East Side of Landfill – Facing
South



Photo: 6

Date:
July 12, 2019

Description:
North Side of Landfill – Facing
West

Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 7

Date:

July 12, 2019

Description:

West Side of Landfill – Facing
South



Photo: 8

Date:

July 12, 2019

Description:

South Side of Landfill – Facing
East

Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 9

Date:
July 12, 2019

Description:
MW-3D



Photo: 10

Date:
July 12, 2019

Description:
MW-6

Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 11

Date:

July 12, 2019

Description:

MW-9

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