



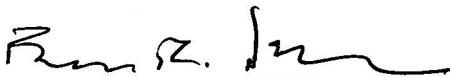
**New York State Department of
Environmental Conservation**

Site Number 7-54-012

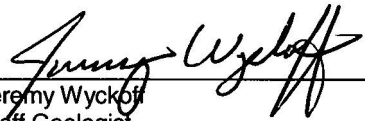
**Tioga Casting Site Quarterly
Report**

Second Quarter 2014

August 2014



Bruce Nelson, CPG
Principal Geologist / Associate Vice President


Jeremy Wyckoff
Staff Geologist

**Tioga Castings Site Quarterly
Report**

Second Quarter 2014

Site Number 7-54-012

Prepared for:
New York State Department of
Environmental Conservation

Prepared by:
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Our Ref.:
00266403.0000

Date:
August 2014

*Malcolm Pirnie, Inc. was acquired by
ARCADIS in July 2009.*

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1. Introduction

The New York State Department of Environmental Conservation (NYSDEC) has issued a Work Assignment (# D004443-8) to Malcolm Pirnie, Inc. Malcolm Pirnie) for Operation, Maintenance, and Monitoring at the Tioga Castings Site (NYSDEC site number 7-54-012) in New York State. This report has been prepared in accordance with the NYSDEC-approved Site Management Plan (SMP) to summarize second quarter 2014 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 April 23, 2014 in accordance with the NYSDEC-approved SMP. A Post Closure O&M Checklist (Appendix A) was used to document the current status of the landfill, including security and landfill cap maintenance and repairs. Site photographs taken during the landfill inspection are provided in Appendix B. The next O&M event is scheduled to be performed during the fourth quarter 2014.

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 operation or 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 in the O&M Checklist (Appendix A), no burrowing rodent holes were observed in the landfill.

Brush was growing in the perimeter swales of the landfill but is not encroaching on the landfill cap. The brush was trimmed from the swales during the site inspection and placed along the perimeter fence to decompose (Site photographs were taken after the brush was trimmed).

The landfill cap, including those areas repaired between February and March 2012 due to flood damage caused by Tropical Storm Lee, are in acceptable condition.

3.3 Groundwater Monitoring Wells

Groundwater monitoring wells were inspected for security and signs of deterioration. As shown in O&M Checklist, the following items should be addressed:

- The lock for MW-6 is seized and needs to be replaced.



- The locks at all of the other monitoring wells are corroded and should be replaced.
- The concrete collar for the flush-mount protective casing at MW-4 is deteriorated and the cover can no longer be secured. Therefore, a new flush-mount protective casing should be installed.

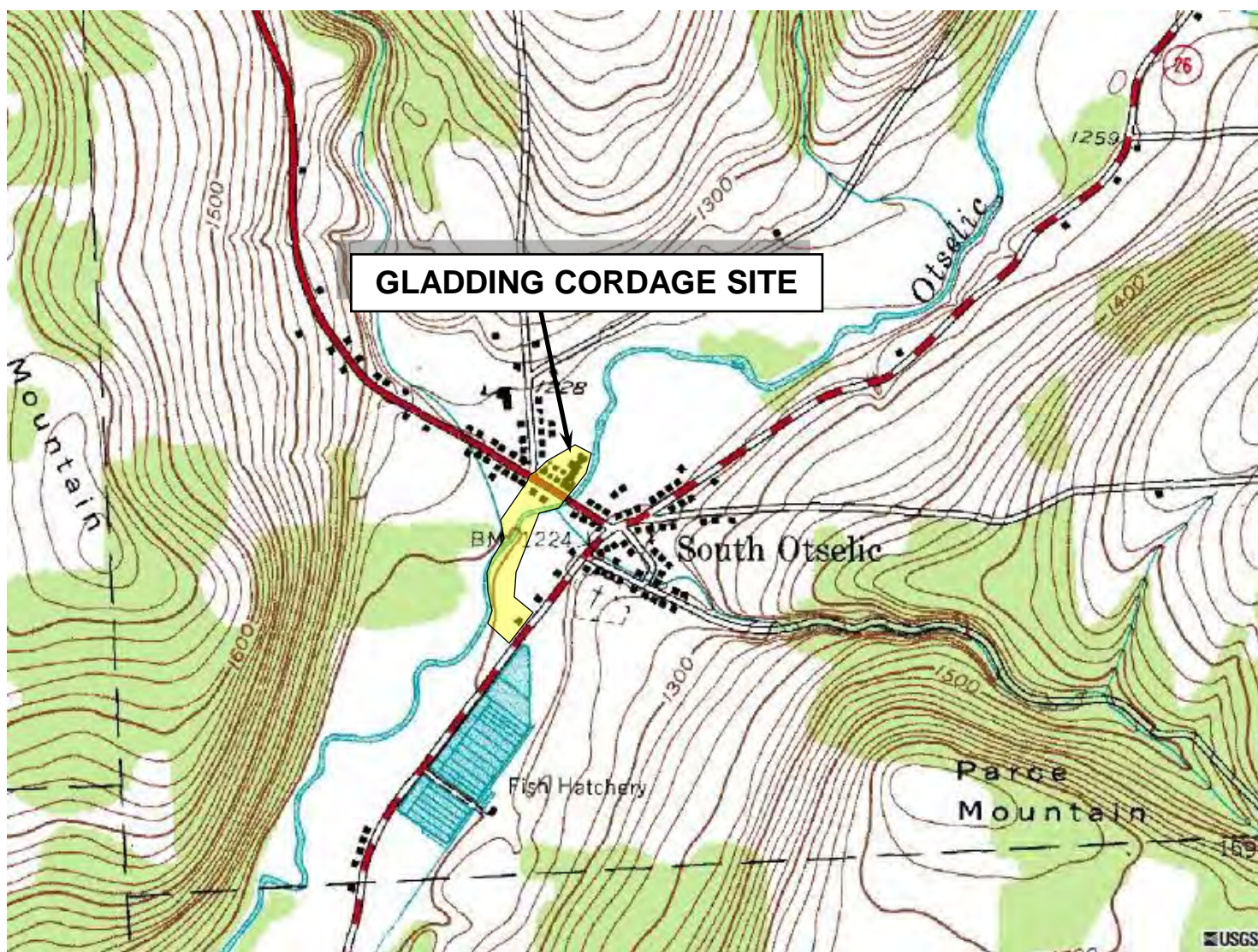


4. Recommendations

The lock for MW-6 is not operating and should be replaced.

The locks at the remaining site wells are corroded and should be replaced.

The flush-mount protective casing at MW-4 should be replaced due to a deteriorated concrete collar and the cover can no longer be secured.



SOURCE: U.S.G.S 7.5 MIN. SOUTH OTSELIC QUAD, 1988



NYSDEC STANDBY CONTRACT NO. D007618-9
GLADDING CORDAGE – SITE NUMBER 7-09-009
SOUTH OTSELIC, NEW YORK
SITE LOCATION

FIGURE 2-1

G:\GISMOD\00266403.0000\Site Map.mxd
G:\PROJECT\00266403.0000\PRR\Figure 2-2.pdf



Legend

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

0 60 120 240 360 480 Feet



Note: Site feature boundaries are approximate.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SITE NUMBER 754012

Tioga Casting Facility, Owego, New York

SITE FEATURES



FIGURE

2-2



Appendix A

Post-Closure Operation and
Maintenance Checklist

TIOGA CASTINGS SITE LANDFILL

Post-Closure Operation and Maintenance Checklist

Inspected by: Jeremy Wyckoff

Date: 4/23/2014 Time: 11:45

Weather Conditions: Cloudy ~45°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> X </u>	YES	<u> </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: Brush growing in perimeter swales - None on landfill cap.

Trimmed brush from perimeter of landfill cap.

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	X	OK		OTHER

Comments: _____

MONITORING WELLS

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

Comments: MW-6 lock will not lock and needs replacement.

All other locks are corroded and should be replaced.

Concrete collar for MW-4 flushmount is deteriorated - flushmount should be replaced

INSPECTOR'S SIGNATURE JRW DATE 4/23/2014



Appendix B

Landfill Photograph Log



South edge of landfill – looking west



South edge of landfill – looking east



West edge of landfill – looking north



West edge of landfill – looking south



North edge of landfill – looking east



North edge of landfill – looking west



East edge of landfill – looking south



East edge of landfill – looking North



Central landfill – looking northwest



Central landfill – looking northeast



Central landfill – looking southeast



Central landfill – looking southwest



MW-1R



MW-2



MW-3



MW-3D



MW-4



MW-5



MW-6



MW-7



MW-8