# PERIODIC REVIEW REPORT (2015) AMERICAN VALVE MANUFACTURING NYSDEC SITE NO. 420002

#### WORK ASSIGNMENT NO. D007619-17

#### Prepared for:

## **New York State Department of Environmental Conservation Albany, New York**

Prepared by:

MACTEC Engineering and Consulting, P.C. Portland, Maine

**MACTEC: 3612122252** 

**JANUARY 2016** 

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JANUARY 2016

Submitted by:

Jean Firth Site Manager Approved by:

Mark J. Stelmack, P.E. Principal Professional



#### ROBERT M. PALMIERI Mayor

### CITY OF UTICA

1 KENNEDY PLAZA, UTICA, NEW YORK 13502 DEPARTMENT OF ENGINEERING 315-792-0152 FAX: 315-792-0236

J. MICHAEL MAHONEY
Deputy City Engineer
mmahoney@cityofutica.com

January 5, 2016

Will Welling, Project Manager New York State Department of Environmental Conservation Division of Environmental Remediation, BURE 625 Broadway Albany, New York 12233-7017

RE: 1212 Saint Vincent Street Primoshield, Inc.

Dear Mr. Welling:

Acknowledge receipt of letter dated December 24, 2015.

Enclosed please find the completed survey for the above property.

Sincerely,

J. Michael Mahoney Deputy City Engineer

JMM:sw Enc.

### New York State Department of Environmental Conservation Division of Environmental Remediation, 12th Floor

625 Broadway, Albany, New York 12233

Phone: (518) 402-9553 Fax: (518) 402-9577

Website: www.dec.ny.gov



#### 12/24/2015

J. Michael Mahoney City of Utica, Dept. of Engineering 1 Kennedy Plaza Utica, NY 13502

Re:

Property Owner Survey: Site Management Periodic Review

Parcels:

318.83-2-33 and 318.83-2-41

Site Name:

Primoshield, Inc.

Site No.:

633027

Site Address:

1212 Saint Vincent Street

Utica, NY 13501

Dear Property Owner:



This letter and attached survey have been mailed to you because you are the listed property owner (or their contact) on which a State Superfund site exists that is currently in the Site Management (SM) phase of remediation. This letter is meant to serve as an informative reminder to you and any tenants, occupants or users of the property that sites in active Site Management must undergo a periodic progress review to ensure that the selected remedy continues to be protective. This process and resulting report, referred to as the Periodic Review Report (PRR), documents the implementation of site specific SM requirements. Section 6.3(b) of DER-10 Technical Guidance for Site Investigation and Remediation (see "IV. Reference Documents" in the attached) provides guidance regarding the information that is included in a typical PRR. Additionally, the site referenced may be comprised of multiple tax parcels with different owners. This letter only pertains to the portion of the site that exists on property which is under your direct ownership. To assist the NYSDEC in its periodic review, please respond, sign and date the attached survey (Enclosure 1 "Institutional and Engineering Controls - Property Owner Survey") by January 30, 2016.

Site Management is defined in regulation at 6 NYCRR 375-1.2(at), and in Chapter 6 of DER-10 (see also "III. Helpful Definitions" in the attached). SM may be governed by multiple individual documents (e.g., an Operation, Maintenance, and Monitoring Plan; a Soil Management Plan; etc.) or under the umbrella of one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you respond to this survey, please include the enclosed form (Enclosure 1) which documents that, to the best of your knowledge, all Site Management requirements that pertain to the site on your property are being met. The Institutional Controls (ICs) and Engineering Controls (ECs) certification portion of the form should be completed, signed and returned to the NYSDEC. If you cannot verify that all SM requirements are being met, please provide adequate information in response so that actions may be taken to restore the level of protection intended. Instructions for completing the attached forms are included as Enclosure 2 "Survey Instructions."

The survey form should be submitted in either paper or electronic format. Any supporting documents or information (e.g., collected data, reports, copy of current deed) should be submitted in electronic format only. These documents and electronic submissions should be sent to:

Will Welling, Project Manager.
New York State Department of Environmental Conservation
Division of Environmental Remediation, BURE
625 Broadway
Albany, NY 12233-7017

Phone number: 518-402-9813. E-mail: william.welling@dec.ny.gov

Finally, as the state and condition of your property may be influenced by tenants or others users, please share the information contained in this letter and survey so that all controls put in place will provide the greatest level of protection of public health and the environment.

Thank you for your cooperation and assistance.

Sincerely,

Will Welling, Project Manager NYSDEC

Enclosures

ec: Will Welling, Project Manager Susan Edwards, Section Chief



### Enclosure 1 Institutional and Engineering Controls - Property Owner Survey



"Chigana" "	
Site Details	Box 1
Site No. 633027	
Site Name Primoshield, Inc.	011
Site Address: 1212 Saint Vincent Street City/Town: Utica County: Oneida Site Acreage: 2.4	1.131415761
Reporting Period: December 31, 2014 to December 31, 2015	38
202122233	YES NO
Is the information above correct?	<b>X</b> -
If NO, include handwritten above or on a separate sheet.	
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	- ×
<ol><li>Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?</li></ol>	
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	- ×
If you answered YES to questions 2, 3 or 4, include documentation with this form.	
5. Is the site currently undergoing development?	- ×
	Box 2
	YES NO
<ol><li>Is the current site use consistent with the use(s) listed below?</li></ol> Industrial	× □
7. Are all Institutional Controls (ICs) in place and functioning as designed?	× -
July Wen Date	2016
Signature of Property Owner Date	

Box 3 **SITE NO. 633027** 

**Description of Institutional Controls** 

**Parcel** 

Owner

318.83-2-33

City of Utica

**Institutional Control** 

Site Management Plan

Landuse Restriction

Monitoring Plan

O&M Plan

IC/EC Plan

**Ground Water Use Restriction** 

Soil Management Plan

The site has a Deed Restriction in place (filed with Oneida County on 10/02/2014) that requires adherence to the Site Management Plan (SMP) dated 8/30/2013. The SMP restricts groundwater use and land use (industrial use only).

Box 4

#### **Description of Engineering Controls**

Parcel

**Engineering Control** 

318.83-2-33

Fencing/Access Control **Groundwater Containment** 

The site has an engineering certification dated 3/2/1999. There is a fence to control access and a groundwater collection trench and sump pump which deliver extracted water to the city sewer under permit with Oneida County. SITE NO. 633027 Box 3

#### **Description of Institutional Controls**

Parcel

Owner

318.83-2-41

City of Utica

Institutional Control

Site Management Plan

Ground Water Use Restriction

Soil Management Plan Landuse Restriction Monitoring Plan

O&M Plan IC/EC Plan

The site has a Deed Restriction in place (filed with Oneida County on 10/02/2014) that requires adherence to the Site Management Plan (SMP) dated 8/30/2013. The SMP restricts groundwater use and land use (industrial use only).

Box 4

#### **Description of Engineering Controls**

Parcel 318.83-2-41

**Engineering Control** 

Fencing/Access Control

**Groundwater Containment** 

The site has an engineering certification dated 3/2/1999. There is a fence to control access and a groundwater collection trench and sump pump which deliver water to the Utica City sewer.

#### Periodic Review Report (PRR) Survey Statements

For each Institutional or Engineering control listed in Boxes 3 and/or 4, by checking "YES" below I believe all of the following statements to be true:

- (a) the Institutional Control(s) and/or Engineering Control(s) employed at this site remain unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control; and
- (d) if a Site Management Plan (SMP) exists, nothing has occurred that would constitute a violation or failure to comply with the SMP for this Control.

Signature of Property Owner

Date

1/5/2016 X

### Enclosure 2 Survey Instructions

#### I. Verification of Site Details (Box 1 and Box 2):

Answer the YES/NO questions in the Verification of Site Details Section. The Property Owner may include handwritten changes and/or other supporting documentation, as necessary.

#### II. Certification of Institutional / Engineering Controls (Boxes 3, 4, and 5)

Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Property Owner should petition the Department separately to request approval to remove the control.

In Box 5, complete the certification for all components, as applicable, by checking the corresponding YES/NO checkbox.

If you cannot respond "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why a "YES" response could not be rendered. Note that this survey form should be submitted even if an IC or EC cannot be certified at this time.

#### III. Helpful Definitions

"Change of use" means the erection of any structure on a site, the paving of a site for use as a roadway or parking lot, the creation of a park or other recreational facility on a site, any activity that is likely to disrupt or expose contamination or increase direct human or environmental exposure, or any other conduct that will or may tend to prevent or significantly interfere with a proposed, ongoing, or completed remedial program.

"Site management" means the activities undertaken as the last phase of the remedial program at a site which continue after a certificate of completion is issued. Site management is conducted in accordance with a site management plan, which identifies and implements the institutional and engineering controls required for a site, as well as any necessary monitoring and/or operation and maintenance of the remedy.

#### IV. Reference Documents

DER-10 http://www.dec.ny.gov/docs/remediation hudson pdf/der10.pdf

Part 375-2.2(a) http://www.dec.ny.gov/regs/4373.html#15089



### Enclosure 1 Engineering Controls - Standby Consultant/Contractor Certification Form



Sif	Site Details e No. 420002		Box 1
Sit	e Name American Valve Manufacturing		
Cit Co	e Address: 170 Mansion Street Zip Code: 12051 y/Town: Coxsackie unty: Greene e Acreage: 12.0		
Re	porting Period: December 31, 2014 to December 31, 2015		
		YES	NO
1.	Is the information above correct?	×	
	If NO, include handwritten above or on a separate sheet.		
2.	To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		×.
3.	To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		×
4.	To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		×
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form		
5.	To your knowledge is the site currently undergoing development?		×
			Box 2
		\/=0	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below?  Commercial and Industrial	Х	
7.	Are all ICs/ECs in place and functioning as designed?	×	
	THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contac C PM regarding the development of a Corrective Measures Work Plan to address th		ues.
Sig	Mark Johnack January 27 nature of Standby Consultant/Contractor Date	2011	

SITE NO. 420002

Box 3

#### **Description of Institutional Controls**

Parcel

Owner

56.14-2-37

American Valve Co

Institutional Control
Soil Management Plan
Site Management Plan
Monitoring Plan
O&M Plan

The Site Management Plan (SMP) includes the procedures and protocols for the long-term monitoring of groundwater, surface water and site drainage sediments. Groundwater monitoring is performed to track potential migration of any residual volatile organic compound (VOC) contamination and determine if naturally occurring attenuation is taking place. Surface water and sediment monitoring is performed at the site outfall to document any foundry sand or residual VOC migration through the site drainage system. The SMP also includes requirement for maintenance of the landfill cap and monitoring wells and requirements to be followed during any excavation along with excavation, periodic certifications, notifications and reporting.

Box 4

#### **Description of Engineering Controls**

<u>Parcel</u>

56.14-2-37

Engineering Control

Cover System

On- and off-site foundry sand wastes are consolidated into the disposal site. The foundry sand disposal site is capped. The cap generally consists of an intermediate cover layer, geosynthetic clay liner (GCL), 60 mil textured linear low density polyethylene (LLDPE) geomembrane, barrier protection layer, and vegetative layer (topsoil and seed) complying with 6 NYCRR Part 373. Five landfill gas collection sumps with vents to the ambient air are installed in the cap. The property has an eight-foot high chain-link security fence and 2 locked gates along its perimeter to restrict access.

 •	•

#### Periodic Review Report (PRR) Certification Statements

- I certify by checking "YES" below that:
  - a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification, including data and material prepared by previous contractors for the current certifying period, if any:
  - b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES NO

X 

- 2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4. I certify by checking "YES" below that all of the following statements are true:
  - (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
  - (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment:
  - (c) nothing has occurred that would constitute a failure to comply with the Site Management Plan, or equivalent if no Site Management Plan exists.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

January 27, 2016

#### IC/EC CERTIFICATIONS

Box 6

#### Professional Engineer Signature

I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Mark Stelmack at MCTEC Engineering & Consulting for Stelmack St. Suite Joo Fortland, ME 04101 (print business address)

am certifying as a Professional Engineer.

Signature of Professional Engineer

Signature of Professional Engineer

Signature of Professional Engineer

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#### GLOSSARY OF ACRONYMS AND ABBREVIATIONS

AVM American Valve Manufacturing

bgs below ground surface

EC engineering controls

FS feasibility study

IC institutional controls

LTM long term monitoring

MACTEC Engineering and Consulting, P.C.

NYS New York State

NYSDEC New York State Department of Environmental Conservation

OU operable unit

PRR Periodic Review Report

RI remedial investigation ROD Record of Decision

SCG Standards, Criteria, and Guidance

SCO Soil Cleanup Objective

Site American Valve Manufacturing site

SM site management
SMP site management plan

μg/L micrograms per liter

USEPA United States Environmental Protection Agency

VOC volatile organic compound

#### **EXECUTIVE SUMMARY**

The American Valve Manufacturing Site (Site No. 420002; herein referred to as the Site) is a 12.0-acre site located at 170 Mansion Avenue in the village of Coxsackie, New York (Greene County). The Site was remediated in accordance with the Records of Decision (RODs) for Operable Unit 1 (OU1) (foundry sand waste) (New York State Department of Environmental Conservation [NYSDEC], 1997) and OU2 (groundwater and building contamination) (NYSDEC, 1999a). The Site includes an engineered landfill cover system which overlies waste foundry sand remaining after the remedial actions were completed. The contaminants of concern are volatile organic compounds including tetrachloroethene, trichloroethene, 1,2-dichloroethene, vinyl chloride, and lead. Remedial goals outlined in the RODs for the Site are to prevent direct contact with contaminated soil and/or groundwater, and to prevent contaminated surface water and groundwater from migrating off-site. In accordance with the Site Management (SM) Plan (MACTEC Engineering and Consulting, P.C. [MACTEC], 2013b), current SM requirements for monitoring the performance and effectiveness of the remedial measures completed at the Site consist of semi-annual Site inspections and environmental monitoring at 15-month intervals.

This Periodic Review Report summarizes SM activities completed at the Site during 2015 and evaluates the effectiveness of the remedial actions. During the reporting period, SM requirements were met. MACTEC concludes that the remedy for the Site is appropriate.

Additional activities conducted at the Site during 2015 include a soil removal from the northern portion of the property to remove soil containing lead and copper at concentrations above the Residential Soil Cleanup Objectives.

#### 1.0 SITE HISTORY

The American Valve Manufacturing (AVM) site (Site) is located at 170 Mansion Avenue in the village of Coxsackie, New York (Figure 1.1). The property contains approximately 12.0 acres and has a chain-link fence around the perimeter. The Site is bounded on the northwest, east, and south by residential property. The CSX railroad is located on the western boundary of the Site. A water tower and a village cemetery are located adjacent to the Site to the east-southeast. Figure 1.2 shows the current site features.

AVM manufactured valves and pipe fittings at this facility in the past. Various industrial wastes including spent foundry sand were dumped into a landfill on the southern end of the property during the time the company was operating. After the company went out of business, the landfill was abandoned and was not properly closed.

A Remedial Investigation/Feasibility Study (RI/FS) that addressed the presence of lead in the foundry sands, defined as Operable Unit-1 (OU1), was completed in early 1997; a Remedial Design was completed in June 1999. A RI/FS that addressed groundwater contamination (petroleum and volatile organic compounds [VOCs]) and building contamination, defined as OU2, was completed in January 1999, and a Record of Decision (ROD) was signed in March 1999. Remedies for both OUs have been completed, and the Site is now in the site management (SM) phase to monitor the effectiveness of the remedy (MACTEC Engineering and Consulting, P.C. [MACTEC], 2013b). Section 2.4 provides details for additional remediation action activities undertaken at the northern portion of the property during 2015.

#### 2.0 SITE MANAGEMENT STATUS

This Periodic Review Report (PRR) documents the SM activities conducted by MACTEC and its subcontractors during 2015:

- Long Term Monitoring (LTM) May
- Semi-Annual Site Inspections May (MACTEC, 2015a) and October (MACTEC, 2015b)
- Soil Sampling at the Adjacent Residential Property October (MACTEC, 2015c)
- North Parcel Soil Removal and Consolidation October (MACTEC, 2016)

This PRR was completed using site specific documentation, which includes the Site's RODs (New York State (NYS) Department of Environmental Conservation (NYSDEC), 1997 and 1999a), and the SM Plan (SMP) (MACTEC, 2013b). This PRR was prepared to document that established controls required by the SMP are operational and effective, that the SMP is being implemented and conducted accordingly, and that the remedy remains protective of the environment and/or public health.

SM requirements as described in the SMP are outlined in Table 2.1. These include semi-annual inspection of institutional/engineering controls (IC/EC) at the Site, as well as LTM and analysis of groundwater, surface water, and sediment from existing monitoring locations (see Figure 2.1 for monitoring locations). Existing shallow and deep wells are monitored to evaluate contaminant concentrations in groundwater as compared to the Site cleanup goals (NYS Class GA Standards [6 New York Codes, Rules and Regulations Parts 700-705] for lead and VOCs) (NYS, 1999). Surface water sample results are monitored for comparison to site cleanup goals for lead and VOCs (Technical and Operational Guidance Series 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" [NYSDEC, 1998]). Sediment samples are also collected; results are compared to Technical Guidance for Screening Contaminated Sediments, 1999 for VOCs, semi-VOCs and lead (NYSDEC, 1999b).

SM activities completed during the reporting period and an evaluation of the performance, protectiveness, and effectiveness of the remedy are summarized below.

#### 2.1 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS PLAN

Contaminated soil exists beneath the ground surface, therefore IC/ECs are required to protect human health and the environment. ICs at the Site consist of the SMP (MACTEC, 2013b) and the RODs (NYSDEC, 1997; NYSDEC 1999a). ECs at the Site include an engineered landfill cover, site access controls, and the Site storm water drainage system. Exposure to remaining contamination in soil/waste at the Site is prevented by an engineered landfill cover system placed over a portion of the Site. Roads providing access to the landfill area are equipped with locked gates. The Site is enclosed by a perimeter fence to restrict access by animals, people, and vehicles, thus preventing damage to the cap. These controls prevent trespassing on the Site, limit future development at the Site, and prevent direct contact with the contaminated soil/waste. The storm water drainage system consists of a surface drainage swale and a culvert that drains from the northwest portion of the landfill toward a drainage basin located adjacent to the CSX railroad.

During the reporting period, the ECs were inspected in May and October 2015 in accordance with the SMP. These controls are in place; however, the following conditions were observed during the May 2015 Site inspections:

- Animal burrowing evidence was observed on the northeast slope of the cover
- Previously noted damage to the fence section near groundwater monitoring wells MPI-22S/D was still present
- Minor ruts near monitoring wells MPI-7S/7D were still present, but conditions were consistent with previous observations
- A small amount of vegetation was noted in the drainage swale
- Insect nests were observed in the well casings of MPS-1S and MPS-1D
- The concrete pad at MW-5S had risen from frost heaving.

The observations noted above were resolved as follows:

- May 2015:
  - o Insect nests were removed from the well casings at MPI-1S and MPI-1
- October 2015:
  - Damaged perimeter fence was repaired, new fence was installed, and a new gate and access road were constructed off Cato Street
  - Areas of soil disturbed by animal burrows and landfill ruts were regraded, and hydroseed was installed

- o Infringing vegetation in the drainage swale was removed
- The concrete pad at MW-5S was repaired

#### 2.2 LONG TERM MONITORING PLAN

The LTM program described in the SMP includes groundwater elevation monitoring, monitoring well inventory and repair, groundwater sampling and analysis, and surface water/sediment sampling and analysis. Since January 2008, monitoring locations have been sampled at 15 month intervals (see Table 2.1). Results of the LTM conducted in May 2015 are discussed below. The LTM locations are shown on Figure 1.2. Table 2.2 summarizes the sampling and analysis plan for all Site monitoring locations.

#### 2.2.1 Groundwater Elevation Monitoring

Groundwater elevations obtained from the 10 monitoring wells sampled are summarized in Table 2.3. As shown on Figure 2.2, groundwater elevations collected during the reporting period illustrate a west/northwest groundwater flow direction towards the CSX railroad. In addition, overburden groundwater elevations at the Site are relatively shallow, ranging between zero and 11 feet below ground surface (bgs).

#### 2.2.2 Monitoring Well Inventory and Repair

Monitoring well conditions were inspected in May and October of 2015 as part of the Semiannual Inspections. Site inspection records and photographs taken during those inspections are included in Appendix A. The following repair was made in October 2015:

• The concrete pad at MW-5S, which had risen above ground surface due to frost heaving, was repaired.

#### 2.2.3 Environmental Sampling and Analysis

LTM groundwater and surface water sampling and analysis for VOCs and lead were conducted in May 2015 in accordance with the SMP (MACTEC, 2013b). Collection of groundwater samples using Hydrasleeves<sup>TM</sup> was attempted from ten monitoring wells. However, three monitoring wells (MW-5S, MW-22S, and MW-23S) contained insufficient water within the Hydrasleeve, and no

samples were collected from these wells. One surface water grab sample and one sediment sample were collected at location SW-10/SED-10.

Compounds detected in groundwater, surface water, and sediment were tabulated and compared to applicable standards, criteria, and guidance (SCGs) for the Site as defined in the ROD for OU1 (NYSDEC, 1997). The ROD directs comparison of Site compound concentrations to these SCGs to determine whether the landfill cap and drainage continue to be effective. For purposes of this PRR, environmental monitoring results and comparisons to SCGs are discussed below and presented in Tables 2.4 and 2.5.

Groundwater, surface water, and sediment samples collected during the May 2015 sampling event did not contain compounds at concentrations exceeding SCGs; however, groundwater samples were not obtained from three wells during this sampling event. Two of the un-sampled wells had groundwater concentrations exceeding SCGs in 2014.

#### 2.2.3.1 Groundwater

During the reporting period, 7 of the 10 monitoring wells were sampled using a Hydrasleeve<sup>TM</sup> sampler, a no flow sampling device placed in each well 15 months prior to collecting the sample to allow particulates to settle out of the water column. Three wells were not sampled because an insufficient volume of water was present in the Hydrasleeve<sup>TM</sup>. Groundwater samples were analyzed for VOCs by the United States Environmental Protection Agency (USEPA) Method 8260 and lead by the USEPA Method 6010B. VOCs and lead were not detected at concentrations above SCGs in any of the seven Site monitoring wells that were sampled in 2015. Figure 2.3 shows the most recent analytical results that exceeded SCGs. Since three wells were not sampled in 2015, 2014 exceedances are shown for those wells where appropriate.

Comparison of the 2015 analytical results for the sampled wells to historical findings from 2004 (Malcolm Pirnie, Inc., 2004), 2006 (H2M, 2006a/b), 2008 (MACTEC, 2008), 2009 (MACTEC, 2009), 2012 (MACTEC, 2013a), and 2014 (MACTEC, 2015d) show fluctuating concentrations of lead and VOCs in groundwater. Locations and parameters with observed concentrations in excess of SCGs from 2004 to 2015 are shown below.

Location	Parameter	2004	2006	2008	2009	2012	2014	2015
	(GA Standard)	(µg/L)	(µg/L)	(µg/L)	$(\mu g/L)$	(ug/L)	(ug/L)	(ug/L)
MW-5D	Lead (25)	358	2.4	1.5 B	-	47.1	15.7	-
MW-5S	Vinyl Chloride (2)	-	2 J	2	2	-	-	
MW-5S	1,2-dichloroethene (5)	-	42	44	20	67	32	NM
MPI-22S	Lead (25)	NM	NM	-	1.6 B	-	25.2	NM

Notes:

B = analyte was detected in the laboratory method blank analyzed concurrently with the sample.

**Bold** = results exceeds NYS GA standard

- = Not detected

NM = Not measured, or sample not submitted for this analysis

 $\mu$ g/L = micrograms per liter

#### 2.2.3.2 Surface Water/Sediment

Surface water/sediment samples were collected in May 2015. In accordance with the SMP, samples from the drainage basin adjacent to the Site and railroad at locations SW-10 and SED-10 (Figure 1.2) were collected and analyzed for VOCs and lead. Several VOCs and lead were detected in the surface water and sediment samples. Concentrations of surface water sample results were generally consistent with previous results. Sediment sample lead results were compared to the SCG. There are no sediment SCGs for VOCs for the Site. Surface water and sediment samples collected during the May 2015 sampling event did not contain compounds at concentrations exceeding their respective SCGs.

#### 2.3 OPERATIONS & MAINTENANCE PLAN

In accordance with the SMP, site-wide inspections are conducted semi-annually and include inspections of the landfill cover system, storm water collection and drainage system, landfill gas vents, and monitoring wells/piezometers.

During the 2015 reporting period, inspections were conducted in May and October. Inspection observations were recorded using Post Closure Inspection Forms, photographic logs, and field notes included with the Semi-annual Inspection Reports – May and October 2015 (MACTEC, 2015a; MACTEC, 2015b) (See Appendix A).

Inspections included observations of:

- Cover system integrity
- Drainage swale conditions
- The LTM network.

Findings of these inspections are provided in Subsections 2.1 and 2.2 above.

#### 2.4 ADDITIONAL SITE ACTIVITIES

The northern portion of the Site property is being considered for redevelopment. Soil sampling activities conducted in 2013 and 2014 (MACTEC, 2013c and MACTEC, 2014) showed two distinct site areas containing lead and copper at concentrations exceeding the NYSDEC Part 375 Residential Soil Cleanup Objectives (SCOs) (NYSDEC, 2006).

To meet the established remedial goals of the Site as described in the 1997 and 1999 RODs, activities were completed in October 2015 to remove residual soils containing copper and lead above their respective Residential SCOs from the Site's northern parcel, and to consolidate those soils within the existing landfill on the southern portion of the Site. Confirmation sampling results from the soil removal demonstrate that soils south of the northern parcel property boundary containing copper and lead concentrations above residential SCOs were effectively removed and consolidated, although residual soil contamination remains along the northern property fence line. Two soil confirmation samples along the fence line contained concentrations of copper and lead above the Residential SCOs of 270 milligrams per kilogram (mg/kg) and 400 mg/kg, respectively; and eight confirmation samples along the fence line contained concentrations exceeding the Residential SCO for copper only. These samples were observed in soil samples collected from 12 inches bgs at the northern fence line separating the Site from adjacent residential properties. As directed by NYSDEC, soil at the fence line was not removed due to the potential for adverse impact to residential properties.

During the soil consolidation activities, a resident abutting the Site expressed concern to the NYSDEC about contamination on their property, and requested that samples be collected. To satisfy this request, two surface soil samples were collected on October 15, 2015 from the

property located at 174 Mansion Street, adjacent to the Site. The samples were collected at depths between zero to six inches bgs and between 12 to 18 inches bgs from one location, approximately ten feet north of the chain-link fence near the southern property line. The samples were analyzed for copper and lead. Results demonstrated that copper and lead were detected at concentrations below Residential SCOs.

Soil sample results from the 174 Mansion Street sampling and soil confirmation results from the northern parcel soil removal are presented in the Construction Completion Report (CCR) (MACTEC, 2016). Appendix B includes two figures from the CCR: (1) a figure showing the limits of the soil excavation, and (2) a figure showing confirmation sample locations and locations of soil sample results exceeding Residential SCOs.

#### 3.0 CONCLUSIONS AND RECOMMENDATIONS

Current SM activities being conducted at the Site are in compliance with the requirements of the Site's SMP, and the SMP for the Site is effective in monitoring the status of remedial goals established in the ROD:

- direct contact with the waste at the Site is eliminated
- migration of groundwater contaminants is prevented
- migration of surface water contaminants is prevented.

#### **Northern Parcel Soil Remediation**

• A total of 2,059 cubic yards of residual soil was removed from the Northern Parcel and consolidated on the landfill. Confirmation soil sample results indicate concentrations of copper and lead at concentrations exceeding Residential SCOs were observed at 12 inches bgs at the northern fence line separating the Site from adjacent residential properties. At the direction of the NYSDEC, soil at the fence line was not removed due to the potential for adverse impact to residential properties.

To maintain the Site integrity, the following recommendations are provided:

#### **ICs/ECs Plan - Based on Site Inspection Reports:**

- Continue semi-annual inspections as scheduled
- Erosion control should remain in place until the disturbed areas have been stabilized with vegetative growth.

#### **Monitoring Plan**

• LTM activities should continue as scheduled (the next 15 month sampling event is scheduled for August 2016).

#### **Site Management Plan**

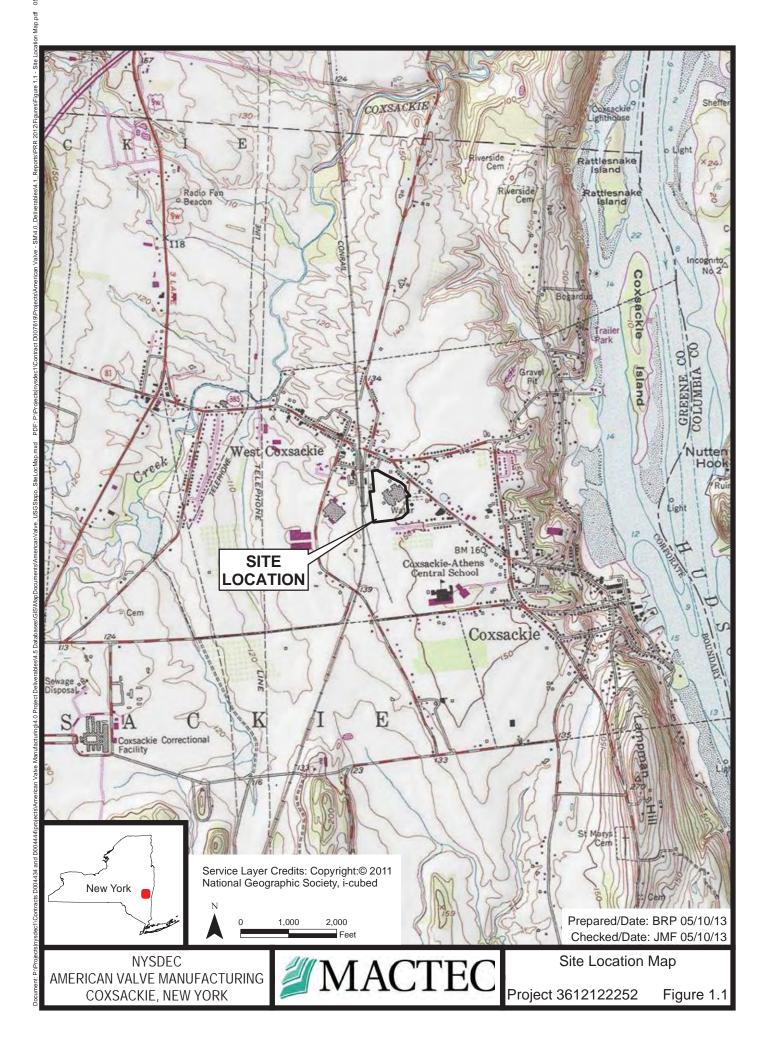
• The SMP should be updated to reflect the changes at the Site as a result of the remedial action conducted.

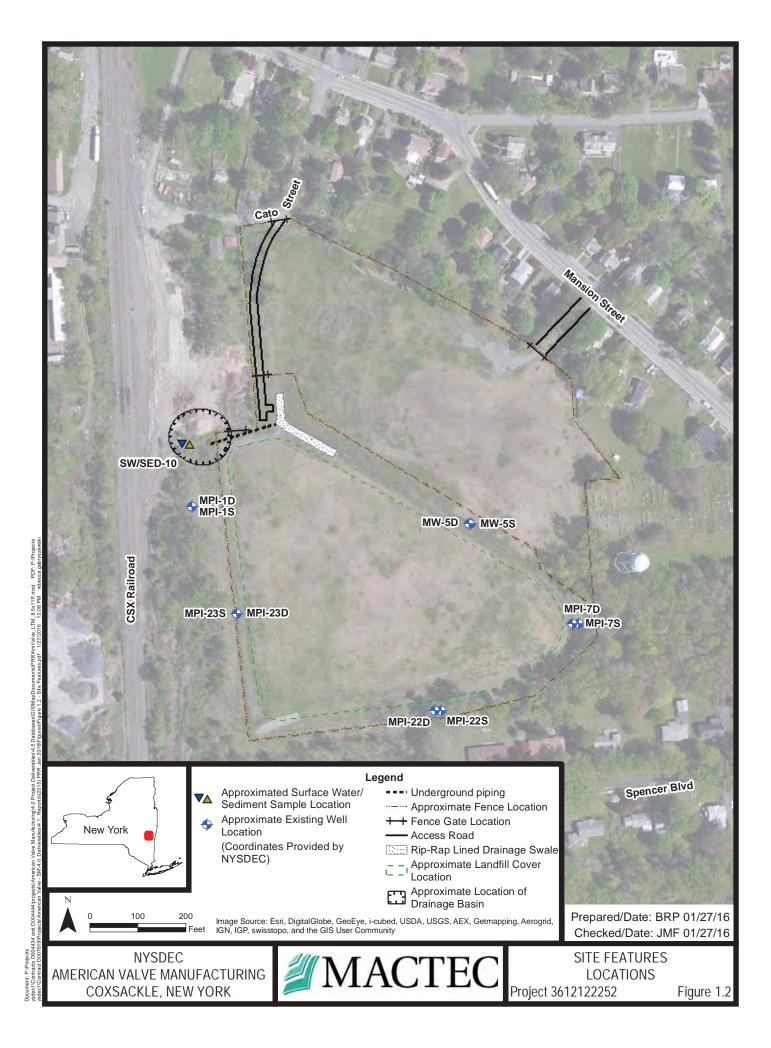
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#### **FIGURES**







NYSDEC AMERICAN VALVE MANUFACTURING COXSACKIE, NEW YORK



LONG TERM MONITORING
RESULTS
PROJECT 3612122252 FIGURE 2.3

**TABLES** 

**Table 2.1: Site Management Plan Requirements** 

(Inspection and Long Term Monitoring)

Component	Action	Required Frequency
	LANDFILL	
Landfill Cover System	Inspection	Semi-annually in spring and summer*
Landfill Cover System	Mowing	Annually in late summer/fall**
Site Drainage System	Inspection	Semi-annually in spring and summer*
Site Security	Inspection	Semi-annually in spring and summer
Access Road	Inspection	Semi-annually in spring and summer
Gas Vents	Inspection	Semi-annually in spring and summer
Ground Water Monitoring System	Inspection	Semi-annually in spring and summer
	LONG TERM MONITORIN	NG
Ground Water Monitoring Program		
10 monitoring locations	No purge sampling (Hydrasleeve)	Every 15 months (August 2016, November 2017)
Surface Water/Sediment Monitoring Progran	1	
1 monitoring location	Surface Water/Sediment grab sampling	Every 15 months (August 2016, November 2017)

<sup>\*</sup>Additional inspections to occur after a major rain event. A major rain event is defined as as a five-year, 24-hour storm.

<sup>\*\*</sup>NYSDEC currently coordinates mowing

**Table 2.2: Long Term Monitoring Sampling and Analysis Plan Requirements** 

Sample Locations	Total Lead (6010B)	VOC (8260B)								
MONITORING WELLS										
MPI-1S	X	X								
MPI-1D	X	X								
MW-5S	X	X								
MW-5D	X	X								
MPI-7S	X	X								
MPI-7D	X	X								
MPI-22S*	X	X								
MPI-22D*	X	X								
MPI-23S*	X	X								
MPI-23D*	X	X								
	SURFACE WATER									
SW-10										
(Northern Drainage Basin)	X	X								
SEDIMENT										
SED-10 (Northern Drainage Basin)	X	X								

An 'X' marked in a column indicates the analysis to be performed for that sample location. VOCs = Volatile Organic Compounds

<sup>\*-</sup> well installation logs identify these as "MW" instead of "MPI"

**Table 2.3: Groundwater Elevation Summary** 

Well ID	Measuring Point Elevation	Protective Casing Stickup (ft AGS)	Protective Casing Stickup/Well Difference (ft)	Depth to BOW (ft TOR)	May 29, 2015 Depth to Water (ft TOR)	May 29, 2015 Water Elevation (ft MSL)
MPI-1S	145.64	2.75	0.50	22.1	6.81	138.83
MPI-1D	145.75	2.9	0.70	52.3	6.65	139.10
MW-5S	149.25	2.4	0.50	16.2	5.11	144.14
MW-5D	148.90	2.6	1.00	31.9	5.40	143.50
MPI-7S	153.77	2.0	0.38	22.3	5.23	148.54
MPI-7D	154.77	2.7	0.52	37.4	7.78	146.99
MPI-22S	156.35	3.1	0.11	16.0	10.96	145.39
MPI-22D	155.79	3.1	0.57	38.1	11.17	144.62
MPI-23S	149.92	2.7	0.45	16.2	10.76	139.16
MPI-23D	149.51	2.9	0.20	34.6	9.06	140.45

ft. = feet TOR = Top of Riser MSL = Mean Sea Level

in = inches AGS = Above Ground Surface

NA = Not Applicable BOW = bottom of well

Table 2.4: Groundwater Long Term Monitoring Results – May 2015

		Media		GW		GW		GW		GW		GW		
			Loc Name		MPI-1D		MPI-1S		MPI-22D		MPI-22S		-23D	
		Sample Date		5/29/2015		5/29/2015		5/29/2015		5/29/	2015	5/29/2015		
			Sample ID		MPI1D		MPI1S		MPI22D		MPI22S		MPI23D	
			QC Code	FS		FD		FS		FS		F	S	
Analysis	Parameter	GA	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
SW6010	Lead	25	25 ug/L		5 UN	1.6 UN		<b>1.7</b> BN		*		1.6	5 UN	
	Turbidity	NS	ntu	13.0	13.0		7.28		25.0		121		15.6	

	Media		GW		GW		GW		GW		GW		
		Loc Name		MPI-23S		MPI-7D		MPI-7S		MW-5D		MW	V-5S
		Sample Date		5/29/2015		5/29/2015		5/29/2015		5/29/	2015	5/29/2015	
		Sample ID		MPI23S		MPI7D		MPI7S		MW5D		MW5S	
			QC Code	FS		FS		FS		FS		F	FS .
Analysis	Parameter	GA	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW6010	Lead	25	ug/L	*	*		5 UN	1.6 UN		1.6 UN			*
	Turbidity	NS	ntu	,	k	3.75	5	13.0	)	6.98	3	;	*

QC Code: FS = field sample; FD = field duplicate

ug/L = micrograms per liter

ntu = Nephelometric turbidity units

U = Target analyte is not detected > the reported detection limit.

B = Compound detected in the blank

N = Compound presumptively present

**Bold** = Indicates positively detected result

Highlighted cell indicates exceedance of the GA standard

NS = No Standard

<sup>\*</sup> Not analyzed due to insufficient water in Hydrasleeve TM

Table 2.5: Surface Water and Sediment Long Term Monitoring Results – May 2015

			Media	Se	d				
	Loc Name								
		S	ample Date	5/29/2	2015				
			Sample ID	SED	-10				
			QC Code	FS	S				
Analysis	Parameter	Standard	Units	Result	Qualifier				
SW8260	2-Butanone	NS	ug/kg	6	Ó				
SW8260	Acetone	NS	ug/kg	6.7	7				
SW8260	Carbon disulfide	NS	ug/kg	1.8	3				
SW8260	Cis-1,2-Dichloroethene	NS	ug/kg	14	l l				
SW8260	trans-1,2-Dichloroethene	NS	ug/kg	3.1	L				
SW8260	Trichloroethene	NS	ug/kg	1.8	3				
SW6010	Lead	500	mg/kg	7.3	3				

			Media	SV	V	
			Loc Name	SW	-10	
		S	ample Date	2/20/2	2014	
			Sample ID	SW-10		
			QC Code	FS	S	
Analysis	Parameter	Standard	Units	Result	Qualifier	
SW8260	Cis-1,2-Dichloroethene	NS	ug/L	2'	7	
SW8260	Tetrachloroethene	NS	ug/L	2	2	
SW8260	Trichloroethene	NS	ug/L	•	6	
SW6010	Lead	NS	ug/L	1.0	5 UN	

Standards are applicable standards, criteria, and guidance (SCGs) as defined in the ROD for OU1 (NYSDEC, 1997).

QC Code: FS = field sample

ug/kg = micrograms per kilogram

mg/kg = miligrams per kilogram

ug/L = micrograms per liter

U = Target analyte is not detected > the reported detection limit.

B = Compound detected in the blank

N = Compound presumptively present

**Bold** = Indicates positively detected result

Highlighted cell indicates exceedance of the GA standard

NS = No Standard

Prepared by: KS 1/20/2015 Checked by: BPW 1/22/2014

#### APPENDIX A

FIELD DATA RECORDS

# APPENDIX A-1 LONG TERM MONITORING FDR MAY 2015

# Field Data Record American Valve Manufacturing Long Term Monitoring

SAMPLER Carl Coducer, Tosh Bowe, Dylan Farrell, Jean Firth

DATE Deployed: 02/02/14 DATE Retrieved 5/29/15

0x 2 by Ris

				Samples C	ollected		
	-	Water Level	Turbidity	VOC	Lead		
Sample Location	Time	(Ft BTOR)	(ntu)	(8260B)	(6010B)	Comments/Obsrevations	
MW-1S	0925	6.81	7.28	yes	yes	Bee hive removed	
MW-1D	<b>ರೀ</b> ಇ೦	6.65	13.0	yes	Jei		
MW-5S	085°	5.11	NM	సిం	No	Insufficient water to collect foll VOC/Metals sample. BOW-15.91	
MW-5D	0905	5,40	6,98	yes	Jes.		
MW-7S	1050	5,23	13,0	yes	yes	Bugs (dead) in bottom of hydrasleave beg	
MW-7D	1055	7.78	3.75	yes	yes		
MW-22S	1025	40.96	121	<i>w</i> =	No	institute water in sog. similart to other shallow wells with regards to well pressure.	
MW-22D	1030	11.17	25:0 1510	42.5 100 100	yes	insufficient water within mydrasteens we attempt to use a new mydrasteens as a bailer to at least take oc sample.	
MW-23S	1015	40.76	MΛ	NO	<b>%</b> 0	Attempted to sample tydrasleeve and insufficient theo within sample bag. Likely the	
MW-23D	1010	9,06	15.6	yes	Jes	insufficient pressor	
SW-10	0945		1,94	425	yes		
SED-10	0950		NA	ipes	428	- collected 1 lead 601016 sample which will	Ċ

Notes:

X

χ.

Ft BTOR- feet below top of riser ntu- nephelometric turbidity units

include percent solds

# APPENDIX A-2 SPRING INSPECTION FDRS MAY 2015

#### APPENDIX D-1

# New York Department of Environmental Conservation Inactive Hazardous Waste Site

Checked by:

Dylan Farrell 06/03/15 Inspection Form Landfills NYSDEC PM: Site Name: American Valve NYSDEC Site Number: 420002 Jeanfirth Site Location: 170 Mansion Ave., Coxsackie, NY Site Classification # (circle): Primary Site Contact: 2 Will Welling Purpose of Inspection:
ANNUAL INSPECTION Site Inspection Date: Name of Inspector: Title: Agency/Company: adner + JUSh BOWE Env AMec Tech Laudfill Cover System Cover System Observations: Cover System Onsite? Section) 5 Mall Vegetation Vegetative Cover Condition Good Poor NA **Evidence of Vegetative Stress** Yes No NA growing in Mowing Required NA Yes Presence of Debris Orainage Swale. Evidence of Ponded Water Yes NA Exposed Geotextile Yes See Photo)

Animal Burrows Last inspection observations (document with photos and describe):

**Evidence of Erosion Settlement Engineered Drainage Swale Condition** 

Evidence of Leachate Seepage

Presence of Woody Growth

Evidence of Erosion

Animal burrows observed on the southern and northeastern portion of the eap. Are burrows still present and how does it compare to the last inspection?

Good)

Yes

Yes

Yes

Pag

Νo

NA

NA

NA

NA

Animal Lurrous still Present, one animal burrow GPS located. for repair

Woody growth was observed in the swale areas. How does that growth compare to the last inspection?

Improvement noted, hovever some bush growth is present

Ruts were observed near MPI-7S/7D, how do currant conditions compare?

RUIS SHIIPresent with no change

Has damage to fence near MPI-22S/D been addressed? Domose Still exists. No Jup rail frescut at Some sections. Needs repair.

Orainage Channel Condition	(Good)	Poor	NA	Collection System Observations:
Sedimentation	Yes	$(\hat{N})$	NA.	
Debris	Yes	(A)	NA	
Erosion/Slope Loss	Yes	(%)	NA NA	
Evidence-of-Leachate-Seepage	Yes	——(-No)		
Rip-Rap Condition	(Gaed)	Poor	NA	
Condition of Synthetic Liner	(Good)	Poor	NA	
Culvert Condition	(Good)	Poor	NA.	
Other Drainage Structures/Pipes	(Good)	Poor	(NA)	
Detention Basin	(Googl	Poor	NA	
	Access Road			
Overall Condition	(Good)	Poor	NA	Access Rd Condition Observations:
Potholes Observed	Yes	(No)	NA	1
				7.

#### New York Department of Environmental Conservation Inactive Hazardous Waste Site Inspection Form-Landfills

	ımental Monitori			
Is there a monitoring network at the site?  Monitoring Wells/Piezometers	(Yes)	No (Proc	eed to next	Monitoring Network Observations:
Soil Gas Monitoring Probes	Good	Poor	(NA)	MW-55 neels
Landfill Gas Vents	(Good)	Poor	NA	1 – 1
List other applicable location types and their overall condition	1 333			concrete relair.
~				(See Photo)
				(300 19070)
Interviews/Additional Contacts				1994 File (1994) Barrier (1994)
Name/Title	Phone:	Company/Entity		Contact Information
None				!
Additional Observation Notes: Will Welling and Zach from Al Abrough. (10:45-11:55) There was no standing water at	ne NYSC	EC Were	chon,	site for a walk
Photograph 1 Tol of I and fill looking east Photograph 2 South Side flerimeter fence Photograph 3 South Side flerimeter fence Photograph 4 Dean ase channel W/SM Photograph 5 Mw-55 Needing concrete Photograph 7 Photograph 8 Photograph 9 Photograph 10	e and ce without vise		ā Į	
Performance Monitoring				
List Parameters/Methods Collected Per Media:	ment Soil I	Michate Air (Sur	face Water	)
Voe's and Lead in Groundwall  Analytical Laboratory/Location:  Pace Analytical Melville, Ny	M:1-16	vel voe	5 and	lead in Sediment
Sample Observations: NV Sample recovert i	N MV-	55,22	5, 44	735

# **Well Inspection Checklist**

Inspected by: Dylan Farrell, Joon Bowle, Carl Ladner
Checked by: Ladner
Date: 05/29/15

Well ID	Measuring Point Elevation	Protective Casing Stickup (ft. AGS)	Protective Casing Stickup/Well Difference (ft.)	Depth to Water (ft. TOR)	Well ID Clearly Labeled (Y/N)	Well Lock/Cap (G/F/P)	Protective Casing (G/F/P)	Water in Annular Space (Y/N)	Concrete Pad (G/F/P)	Well Riser/Cap (G/F/P)	Well Obstruction (Y/N)	Comments	Bow
MPI-1S	145.64	32,25	8,00	6.81	yes	6	Ch	Ν	G	Ġ	لىر	Brenive removed from Enside of eap well consider.	21.84
MPI-1D	145.75	35,75	7,50	6.65	yes	4	Ca	N	4	a	2	Removed insect (wasp) nest from inside	52.39
MW-5S	149.25	28.50	5,50	5,11	yes	G	G	Ν	P	G	2	well concrete collor has risen from frost heaves	15,9'
MW-5D	148.90	29.50	14.25	5,40	yes	a	G	N	G	G	N		31.85
MPI-7S	153.77	22.13	8,00	5.23	yes	6	4	N	Ca	G	N		27.30
MPI-7D	154.77	32,13	9,50	7.78	yes	Co	G	7	G	Gı	N		37.25
MPI-22S	156.35	34,50	ルケロ	10,96	yes	6	G	N	G	G	N	Bows (-15.76	7377
MPI-22D	155.79	-31-34.00 NM	4. CONM	-696	yes	g	Q	N	G	G	N	80W: 37.76	15-00 P
MPI-23S	149.92	31.00	5,50	10.76	yes	6	G	2	G	G	N		15.92
MPI-23D	149.51	32.75	2.63	9.06	Jes	G	6	2	G	G	N		34.82

Notes:

G = Good

AGS = Above-ground-surface

F = FairP = Poor Y = Yes

NA = Not Applicable

in. = inches TOR = Top of RiserBOW = bottom of well

Depth to BOW was not measured at the time of the April 2014 inspection so as not to interfer with the hydrosleeve bags. Depth to BOW will be taken the next time the wells are sampled.

### Attachment 1 – Spring 2015 Inspection Photographic Log

Client: NYSDEC Project Number: 3612122252

Site Name: American Valve Site Location: Coxsackie New York.

#### Photographer:

Karl Ladner

Date:

05/29/2015

**Photograph:** 1

Direction:

East

# Description:

Drainage swale view east



### Photographer:

Karl Ladner

Date:

05/29/2015

**Photograph:** 2

Direction:

South

#### Description:

South side perimeter fence has no horizontal top rail. Waste high weeds approaching MPI-22 S/D



#### **Attachment 1 – Fall Inspection Photographic Log**

Client: NYSDEC Project Number: 3612122252

Site Name: American Valve Site Location: Coxsackie New York.

Photographer:

Karl Ladner

Date:

05/29/2015

**Photograph:** 3

Direction:

n/a

# Description:

South perimeter fence separated from vertical supports.



# Photographer:

Karl Ladner

Date:

05/29/2015

**Photograph:** 4

Direction:

n/a

# Description:

Concrete pad around MW-5S heaved up due to frost



# **Attachment 1 – Fall Inspection Photographic Log**

Client: NYSDEC Project Number: 3612122252

Site Name: American Valve Site Location: Coxsackie New York.

Photographer:

Karl Ladner

Date:

05/29/2015

**Photograph:** 5

Direction:

East

# Description:

Top of landfill looking east towards the entrance gate.



# APPENDIX A-3 FALL INSPECTION FDRS OCTOBER 2015

#### APPENDIX D-1

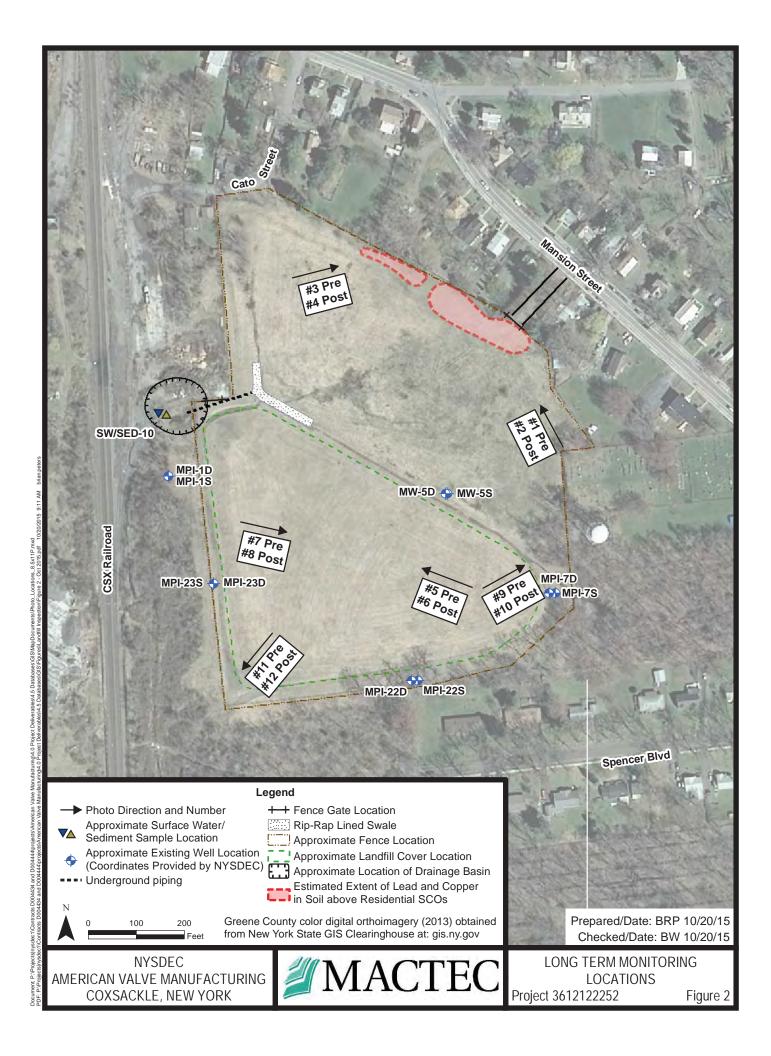
#### New York Department of Environmental Conservation Inactive Hazardous Waste Site Inspection Form-Landfills

Site Name: American Valve			NYSDE	C Site Number	er: 420002	NYSDECPM: Will Welling
Site Location: 170 Mansion Ave., Coxsackie, NY			Site Clas	ssification # (	circle):	Primary Site Contact:
			1	2 2a	3 1	
Site Inspection Date: 10/27/15	Purp	pose of Inspe				
Name of Inspector: Joff Toward ly	Title	91	Agency/	Company:	777	Address:
Phone Number: 860 529 7191			AW	DEC		
· · · · · · · · · · · · · · · · · · ·	Landfill Cover S	ystem		eed to next	10	stem Observations:
Cover System Onsite?	Yes	No	- AC - C - C - C - C - C - C - C - C - C	ection)		
Vegetative Cover Condition	Good	Po	or	NA	Corre	ctive Actions
Evidence of Vegetative Stress	Yes		0)	NA	1000	see from al
Mowing Required	Yes		02	NA	00016	periormece
Presence of Debris	Yes	CN	2	NA	pri	or to inspection
Evidence of Ponded Water	Yes	(A	0)	NA	701	1 "
Exposed Geotextile	Yes		0/	NA	Vista	e performed or to inspection urbed areas
Evidence of Erosion Settlement	Yes	K	-	NA.	woo	2 40 1
Engineered Drainage Swale Condition	(Good )	Po	al-	NA	- were	restored
Evidence of Leachate Seepage	Yes		0>	NA.	and	hindropped
Evidence of Erosion	Yes	- Ca		NA NA	1 mm	restored hydroseed applied
Presence of Woody Growth	Yes		0_)	NA.	nue	applied
Animal Burrows	Yes	1 8		NA NA		
Ruts were observed near MPI-7S/TD. how do currant conditions command.  Has damage to fence near MPI-22S/D been addressed? Fence		s wei	re	Сотр	leted	
				SAES IN THE WORLD FOR THE	2 THE R. O. P. SECTION	50, p. v. p. p. p. 100 75 - 100 m 20 p. Val. Val.
Prainage Changel Condition	Good.		oor	NA NA	Collection	on System Observations:
Sedimentation	25.17		lo	NA	Conecuc	in System Observations.
Debris	O'es		Vo	NA		
Erosion/Slope Loss	Yes		Vo	NA		
Evidence of Leachate Seepage	Yes	0	Va)	NA		
Rip-Rap Condition	Good	Pe	oor .	NA		
Condition of Synthetic Liner	Good	Pe	oor	NA		
Culvert Condition	Good	Pe	oor	NA		
Other Drainage Structures/Pipes	(Good)	Pe	201	NA		
Detention Basin	Good	Pe	oor	(NA)		
	Access Rgs			O ESTADORE	TO THE PARTY OF TH	。 第二章
Overall Condition	Good		oor	NA	Access	Rd Condition Observations:
Potholes Observed	Yes		Vo)	NA NA	Ne us	Accese Anna
				1	as pa	Access Road constructed into the

#### APPENDIX D-1

#### New York Department of Environmental Conservation Inactive Hazardous Waste Site Inspection Form-Landfills

		riconmental Monitoring Locations		
Is there a monitoring network at the site?  Monitoring Wells/Piczometers	Googl	No (Proceed to next Poor NA		Monitoring Network Observations:
Soil Gas Monitoring Probes	Good	Poor	NA	
andfill Gas Vents	Gogal	Poor	NA -	3
List other applicable location types and their overall cond	lition			
				LA AL
Interviews/Additional Contacts		图象"""特殊"。		
Name/Title	Phone:	Company/Entity		Contact Information
Na				
				V
Additional Observation Notes:	0			
Corrective Actions we	ere performed	priory	to ins	pection
Corrective herions	11 0 0	00		are la
New fence was inst	alled, damag	ed ten	ce re	paired and or New
gate and access roa.	d was on to	4 . 1	nff 1	Cat. Ct
Disturbed soil u	vas araded	and	hub	rosecd installed
013101000 30.	. ,, ,		0	1101
Erosion control "	vill remain	in ple	ace	until disturbed
VIUSION CONTIE		. , ,		1 1 1
areas have been sto	abilized wi	+1. 11e.	30 ta	tive growth.
areas have oven 310	a Critical Pri	11 00	101-	2
Photograph Logi		(established)		
Photograph I	. Wit of the Maria - No. 11 (2015) - 10 (10 (10 (10 (10 (10 (10 (10 (10 (10	e and the second second	alder 1 person per	STATE OF THE PERSON OF THE STATE OF THE STAT
Photograph 2			_	
Photograph 3			-	
Photograph 4				
Photograph 5				
Photograph 6				
Photograph 7				
Photograph 8				
Photograph 9				
Photograph 10				
Performance Monitoring			S. ASSESSED	
2012 p. 1517 and the man date of 111 by the semination of the semi	even thurston - have over-paravel State of Tourward Cond. (1984)	AND CONTROL OF STREET	DATE OF THE PARTY	Mark the second could be appeared by a virtual direction of a second
	23			
Were check samples collected during this visit? Yes	No			
Sample type collected (circle or write in other): Groun	ndwater Sediment Soll Le	achate Air Sur	face Water	
List Parameters/Methods Collected Per Media:				
Analytical Laboratory/Location:				
A CONTRACTOR OF THE PARTY OF TH				
Sample Observations:	7			



Client: NYSDEC Project Number: 3612122252

Site Name: American Valve Manufacturing Site Location: Coxsackie, New York.

Photographer:

Brad Wolfe

Date:

October 10, 2015

**Photograph:** 1

Direction:

Northwest

Description:

Excavation area prior to excavation



Photographer:

Jeff Tweeddale

Date:

October 27, 2015

Photograph: 2

Direction:

Northwest

Description:

Excavation area after restoration



Client: NYSDEC Project Number: 3612122252

Site Name: American Valve Manufacturing Site Location: Coxsackie, New York.

Photographer:

Brad Wolfe

Date:

October 10, 2015

**Photograph:** 3

Direction:

Northeast

Description:

Area prior to excavation



Photographer:

Jeff Tweeddale

Date:

October 27, 2015

Photograph: 4

Direction:

Northeast

Description:

Excavation area after restoration



Client: NYSDEC Project Number: 3612122252

Site Name: American Valve Manufacturing Site Location: Coxsackie, New York.

Photographer:

Brad Wolfe

Date:

October 10, 2015

**Photograph:** 5

Direction:

West

Description:

Landfill topsoil removal



Photographer:

Jeff Tweeddale

Date:

October 27, 2015

**Photograph:** 6

Direction:

West

Description:

Landfill topsoil restoration



Client: NYSDEC Project Number: 3612122252

Site Name: American Valve Manufacturing Site Location: Coxsackie, New York.

Photographer:

Brad Wolfe

Date:

October 10, 2015

**Photograph:** 7

Direction:

East

Description:

Landfill cap topsoil removal



Photographer:

Jeff Tweeddale

Date:

October 27, 2015

**Photograph:** 8

Direction:

East

Description:

Landfill cap restoration



Client: NYSDEC Project Number: 3612122252

Site Name: American Valve Manufacturing Site Location: Coxsackie, New York.

Photographer:

Brad Wolfe

Date:

October 10, 2015

**Photograph:** 9

Direction:

North

Description:

Temporary landfill access road



Photographer:

Jeff Tweeddale

Date:

October 27, 2015

**Photograph:** 10

Direction:

North

Description:

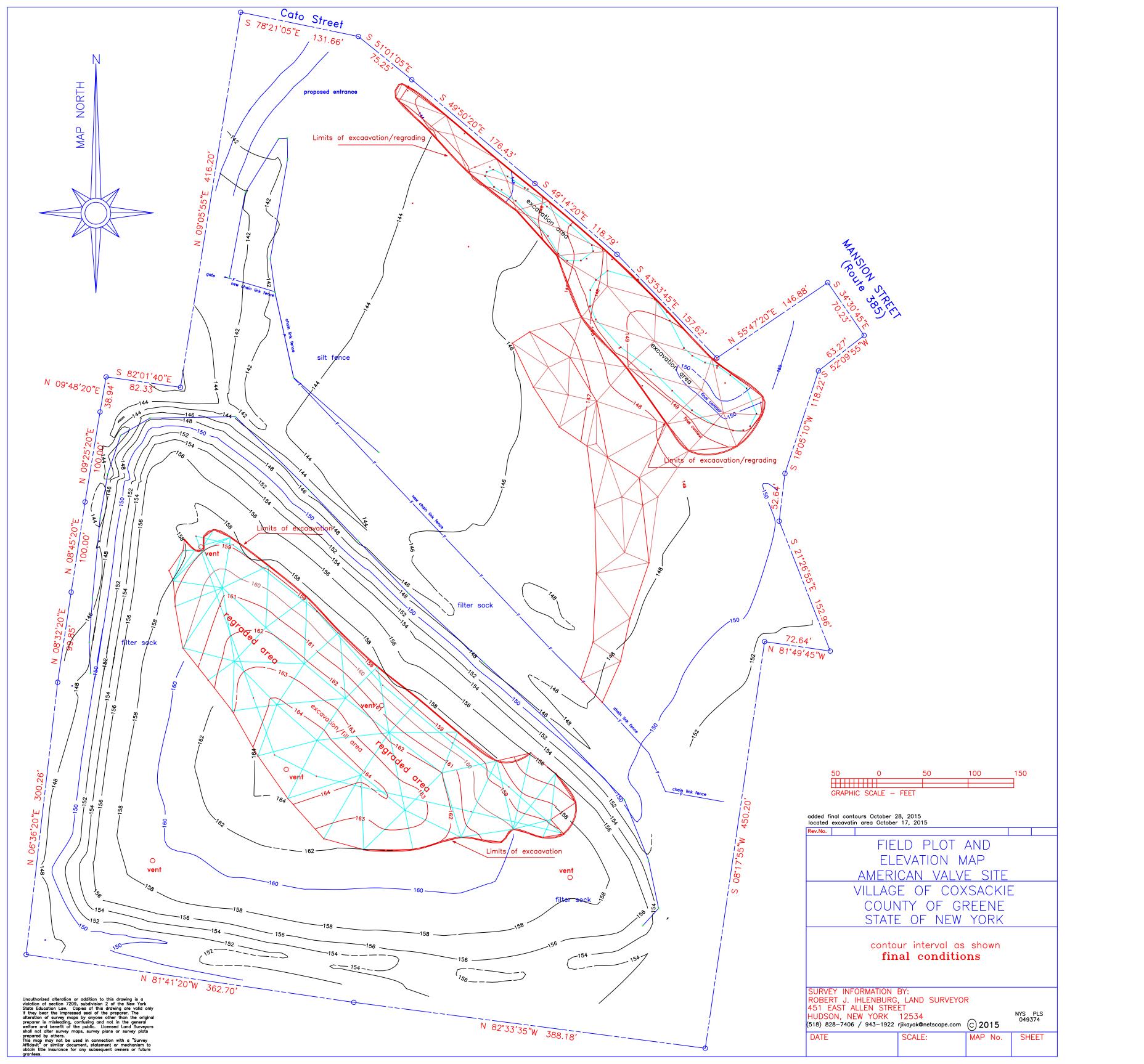
Access road restoration and fence installation



#### APPENDIX B

**SOIL REMOVAL FIGURES** 

# APPENDIX B-1 LIMITS OF EXCAVATION



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# APPENDIX B-2 CONFIRMATION SAMPLE LOCATIONS