

Vanchlor Landfill
LOCKPORT, NEW YORK

Periodic Review Report

NYSDEC Site Number: 932039

Prepared for:
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APRIL 2015

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1.0 SITE OVERVIEW

1.1 Site Location & Description

The site is located at 600 Mill Street in the Town of Lockport County of Niagara, New York and is identified as Block 1 and Lot 56.11 on the Town of Lockport Tax Map. The site is an approximately 5-acre area bounded by Mill Street to the north, Somerset Railroad Corp corridor to the southeast, Twin Lakes Chemical Inc. beyond the rail corridor to the east, Plank Road and the City of Lockport Waste Water Treatment facility to the west (see Figure 1-1). The site is monitored under the New York State Inactive Hazardous Waste Disposal Site Remedial Program administered by New York State Department of Environmental Conservation (NYSDEC).

1.2 Nature and Extent of Contamination Prior to Remediation

Based on the historic use of the Site, the NYSDEC designated the Site as a Class 4 Inactive Hazardous Waste Disposal Site (Site #932039), which indicates that the Site was properly closed, but requires continued management. Following the expiration of the Post-Closure RCRA Permit #9-2909-00049/0003 in September 2013, the NYSDEC requested that Vanchlor Company, Inc. (the current property holder) enter into an Order of Consent executed July 10, 2014 (Order). The Order has replaced the permit as the legal basis for continued fulfillment of operation, maintenance and monitoring requirements previously contained in the permit and to be consistent with the provisions of the existing deed restrictions on the property recorded with the Niagara County Clerk on October 5, 1999.

1.3 Site Remedial Program

Landfilling activities at the Site reportedly began in 1957 and continued until 1982 (from NYSDEC Module III, Part 373 Permit, July 2008). The landfilling activities reportedly consisted primarily of waste by-products from the manufacture of silicon tetrachloride. The landfilled wastes were deposited in 55-gallon drums and placed in trenches with crushed limestone (to enhance the neutralization of the acidic wastes).

In 1988, the landfill was closed in accordance with a NYSDEC approved Closure Plan that included the installation of a final cover system. The cover system consisted of two feet of compacted clay overlain by a drainage layer of sand and loam soil and planted with a vegetative cover.

The following construction activities were performed to complete the approved cover system:

- Site grading and proof rolling;
- Installation of a pan-lysimeter;
- Lime application;
- Installation of an interceptor trench in perimeter ditch;
- Construction of a two-foot clay cover including lining of ditch with clay;

- Addition of loam and sand drainage layers; and
- Addition of topsoil layer and seeding.

1.4 Purpose of Periodic Review Report

This Periodic Review Report (PRR) presents information on the maintenance, monitoring and compliance activities for the Class 4 Inactive Hazardous Waste Disposal Site (Site No. 932039) for the period from February 13, 2014 to February 13, 2015.

Required environmental elements under the Order of Consent are the development and implementation of the Site Management Plan (SMP) [Ref.1] incorporating required engineering and institutional controls.

Institutional Controls have been put in place to control potential exposure to remaining contamination during use of the site in the future and for the protection of public health and the environment. The ICs place restrictions on site use, and mandate maintenance and reporting measures for the ICs. Methods necessary to ensure compliance with the ICs are specified in the SMP for the Site and required by the Deed Restrictions for contamination that remains at the site. The SMP has been approved by the NYSDEC, and compliance with the approved plan is required by the grantor of the Deed Restriction and the grantor's successors and assigns. The SMP may only be revised with the approval of the NYSDEC.

The SMP provides a detailed description of the procedures required to manage remaining contamination at the site including: (1) implementation/management of the Engineering and Institutional Controls; and (2) performance of periodic monitoring and inspections, certification of results, and submittal of Periodic Review Reports.

The required elements of the Periodic Review Report are described in the SMP and include the periodic submittal of information, recommendations, and certifications to NYSDEC.

2.0 REMEDIAL SYSTEMS COMPLIANCE

There are no remedial treatment systems currently operating at the Inactive Hazardous Waste facility identified as Site No. 932039. Existing engineering controls for the Site consist of a clay lined drainage ditch leading to an interceptor trench and a Site wide cover system comprised of two feet of compacted clay overlain by a drainage layer of sand and loam soil with a vegetated cover.

The approved SMP requires the implementation of a long term monitoring plan that incorporates annual groundwater and surface water analysis along with annual inspections of the site to assess the performance and effectiveness of the remedy. In particular, the annual inspections are to focus on the condition and integrity of the cover system, drainage ditch, and groundwater monitoring system. The results of the required monitoring activities and annual inspection are presented in Section 5 "Monitoring Plan Compliance Report".

3.0 ENGINEERING CONTROL COMPLIANCE

3.1 Introduction

3.1.1 General

Since hazardous waste remains within the Site, Engineering Controls (ECs) are required to protect human health and the environment. The Engineering Control Plan is a component of the SMP and describes the procedures for the implementation and management of all ECs at the site.

3.2 Description of Engineering Controls

Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. This cover system is comprised of a minimum of 24 inches of compacted clay with a permeability of 1×10^{-7} cm/sec overlain by a minimum of six inches of drainage layer consisting of sand and loam topped with vegetative growth. The Excavation Work Plan included in the SMP outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed and any underlying remaining contamination is disturbed. Procedures for the inspection and maintenance of the cover system are provided in the Monitoring Plan included in SMP for the Site.

Procedures for maintaining the soil cover system are documented in the Operation and Maintenance Plan section of the SMP for the Site. The Monitoring Plan also addresses severe condition inspections in the event that a severe condition, which may affect the cover system at the site, occurs.

3.2.1 Status of ECs

During the reporting period covered by this PRR, all ECs were in place and effective in meeting their objectives. The soil cover system is a permanent control, and the quality and integrity of this system was observed as part of the annual inspection in conjunction with the PRR. There are no corrective measures required to address deficiencies in the ECs at this time based on the results of the monitoring and annual inspection performed.

A limited amount of intrusive work was performed on the Site during the period covered by this PRR. Golder was retained by VanDeMark with approval from Vanchlor to provide well abandonment/relocation oversight services for existing site groundwater-monitoring well VDM-9 at the Vanchlor Landfill. VanDeMark personnel had observed that the well water production had been decreasing significantly during sampling events and the well riser integrity was compromised making collection of representative samples difficult. VanDeMark discussed the status of the well with Mr. Stan Radon of the New York State Department of Environmental Conservation and it was agreed that the well should be abandoned and replaced with an equivalent groundwater monitoring well (VDM-9R). Groundwater monitoring well, VDM-9, was decommissioned and replaced approximately 10-feet to the east of the original well location with VDM-9R. No other wells were decommissioned or installed at this location. The VDM-9 monitoring well abandonment and replacement well installation was performed in general accordance with the NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy. Nothnagle installed the replacement

groundwater monitoring well, with Golder providing field oversight of the drilling and well installation activities. Drilling activities for well installation were completed on May 29, 2014. A report summarizing the VDM-9 monitoring well decommissioning and replacement activities was submitted to the Department on July 15, 2014 and is include as Appendix A.

4.0 INSTITUTIONAL CONTROL COMPLIANCE

4.1 Introduction

4.1.1 General

Since hazardous waste remains within the Site, Institutional Controls (ICs) are required to protect human health and the environment. The Institutional Control Plan is a component of the SMP and describes the procedures for the implementation and management of all ICs at the site. The goals of the ICs are to: (1) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (2) limit the use and development of the site to industrial uses only (the most restrictive use as defined in DER 10. Adherence to these Institutional Controls on the Site will be implemented under this Site Management Plan.

4.2 Description of Institutional Controls

The Institutional Controls are:

- Compliance with the Deed Restrictions and this SMP by the Grantor and the Grantor's successors and assigns;
- Performance of environmental or public health monitoring as defined in this SMP, if applicable;
- Implementation and documentation of the soil/fill management procedures provided in the Excavation Work Plan (EWP), when required;
- Reporting of information pertinent to Site Management of the Controlled Property must be performed at the frequency and in a manner defined in this SMP;

The site has a series of Institutional Controls in the form of site restrictions. Site restrictions that apply to the Controlled Property are:

- The property may only be used for restricted industrial use provided that the long-term Institutional Controls included in this SMP are employed;
- The property may not be used for a higher level of use, such as restricted commercial use without additional remediation and amendment of the Deed Restriction, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- The use of the groundwater underlying the property is prohibited;
- Vegetable gardens and farming on the property are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by the site owner or an expert that the NYSDEC finds acceptable.

The deed restriction summarizing the site use restrictions and requirements for the site was executed by the Department on March 6, 2013, and filed with the Erie County Clerk on July 15, 2010.

4.2.1 Status of ICs

During the reporting period covered by this PRR, all ICs were in place and effective in meeting their objectives. There are no corrective measures required to address deficiencies in the ICs at this time based on the results of the monitoring and annual inspection performed.

5.0 MONITORING PLAN COMPLIANCE REPORT

5.1 3.1 Introduction

5.1.1 General

The Monitoring Plan describes the measures for evaluating the conditions at the Site and conformance with the Deed Restrictions to reduce or mitigate impacts from residual contamination at the site, and affected site media identified below. This Monitoring Plan may only be revised with the approval of NYSDEC.

5.1.2 Schedule

In September 2014 Vanchlor petitioned the Department for a reduction in the frequency of groundwater and surface water sampling from a semi-annual to an annual basis. This request was approved on October 3, 2014. Therefore under the Site Management Plan groundwater sampling commencing in 2015 will be performed annually on the landfill monitoring well network established under the former Part 373 permit for the Site. Annual groundwater monitoring events and inspections of the groundwater monitoring system will be conducted to assess the performance and effectiveness of the remedy and the overall reduction in contamination on-site. The Monitoring program is summarized in Table 5-1 and results of the monitoring performed are discussed further in Section 5.2 below.

Table 5-1: Monitoring/Inspection Schedule

| Monitoring Program | Frequency* | Matrix Description | Analysis |
|---|---|---|---|
| Annual Groundwater & Surface Water Monitoring | Annual (during 3 rd quarter) | Sample groundwater from wells D-55, VDM-9R, VDM-10, VDM-11, VDM-12, and VDM-14. Sample surface water from Eighteen Mile Creek (just downstream of Site) | VOCs, Method 8240 Metals, Method 6010 Chloride, 9251 pH, Method 9040 |
| Annual Site & Groundwater System Inspection | Annual (during 3 rd quarter) | Inspect cover system integrity, vegetation condition, ditch lining, security fence and signage, monitoring well condition | Check for iron staining in drainage ditch and visible seeps in the cliff face |

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

5.2 Monitoring Program Results

5.2.1 Groundwater and Surface Water Monitoring

Since the approval for a reduction in groundwater monitoring frequency was not received until October of 2014, two rounds of groundwater samples were collected in 2014 on May 6, 2014 and October 6, 2014 by Vanchlor as required under the previous RCRA permit monitoring program. Samples were collected from

four (4) on-Site well locations and one (1) off-Site location in accordance with the Vanchlor Landfill 932039 Site SMP (refer to Figure 5-1 for monitoring well locations). Surface Water Samples were collected from Eighteen Mile Creek at a location downstream from the Site, but upstream of the City of Lockport Wastewater treatment plant SPDES discharge point. Refer to Figure 1-1 for the approximate location of the surface water sample location.

Groundwater and surface water samples were analyzed in accordance with the specified analytical methods described more fully in the SMP for Chloroform, 1,2-Dichloromethane, Trans-1,2-Dichloroethane, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Vinyl Chloride, Toluene, Chromium, Copper, Iron, Zinc, Chloride, and pH. The analytical results from the May and October 2014 sampling event are summarized and compared to NYSDEC groundwater and surface water standards respectively (NYSDEC 1998) in Table 5-2.

Several detections were noted in groundwater above NYSDEC class GA Groundwater Standards during the semi-annual sampling events conducted during the period covered by the PRR. Detections of metals in groundwater include chloride in all wells sampled, and iron in VDM-10, VDM-11, and VDM-14. VDM-14 also contained zinc and several Volatile Organic Compounds (VOCs) including chloroform, 1,2-Dichloroethane, trans-1,2-Dichloroethene, methylene chloride, 1,1,2,2-tetachloroethane, tetrachloroethene, trichloroethene, and vinyl chloride. VOCs were also detected in groundwater monitoring locations VDM-11 (tetachloroethene) and VDM-9 (trans-1,2-dichloroethene, tetrachloroethene).

No detections were found in the Eighteen Mile Creek and D-55 surface water samples above NYSDEC surface water standards, with the exception of iron noted in both locations during the May and October 2014 sample events.

A copy of the laboratory Analytical Reports for all groundwater and surface water analyses performed is attached in Appendix B. A copy of the updated historical trend analyses for each parameter at each monitoring location are also provided in Appendix B.

5.3 Site Inspection Results

A semi-annual inspection was performed in May and October 2014 in accordance with the SMP Monitoring Program requirements. A "Landfill/Groundwater Monitoring System Inspection" form was completed (Appendix C) during each of the two monitoring events. The form compiles sufficient information to assess the following:

- Compliance with all EC/ICs, including site usage;
- General site conditions at the time of the inspection; and,
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection.

All areas of the Site were carefully inspected to assess the condition of cover system and groundwater monitoring system integrity to determine if evidence of erosion or related deterioration of the site soils. No erosion or deterioration in any areas was noted with the exception of a hole noted in both the May and October Site Inspection reports. Therefore corrective action to repair the cover system in the area noted is warranted within the following PRR reporting period. No corrective actions were noted to address or otherwise correct the problem(s) identified during the inspection during the reporting period of this PRR.

5.4 Conclusions and Recommendations

At the time of the annual inspection, the Site was fully compliant with Engineering and Institutional controls fully described in the SMP. All monitoring results were below NYSDEC standards and/or exhibited neutral or decreasing concentrations in both Site groundwater and surface water with the exception of samples from VDM-14. Inspection results described some erosion or deterioration, specifically a hole was described in both the May and October Site Inspection reports that will require corrective action during the following PRR reporting period.

No recommendations for changing of the monitoring and inspection program are proposed at this time.

6.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

Based on the initial monitoring and inspection results described in Section 5 and conducted during the timeframe covered by this PRR, compliance with all relevant components of the SMP EC/ICs were achieved.

The groundwater and surface water sampling completed to date has assessed the long term trends of contaminant concentrations to evaluate the performance of the remedy. Groundwater and surface water sample results over the last twenty (27) years, and the overall condition of the site and integrity of the soil cover system provide evidence that the remedy is achieving its intended goals of minimizing, to the extent feasible, exposure of remaining contamination to the environment through groundwater and surface water runoff and associated sediment erosion.

Groundwater monitoring well, VDM-9, was decommissioned and replaced approximately 10-feet to the east of the original well location during the period covered by this PRR. The new well is designated as VDM-9R. Drilling activities for well decommissioning and new well installation were completed on May 29, 2014. The minor construction activities conducted did not affect compliance of on-Site engineering controls described in the SMP.

The next annual SMP monitoring event is scheduled for the third quarter of 2015, an inspection of the landfill cover system, including drainage, vegetative cover, indications of erosion or other deterioration of the soil cover, security fencing and the condition of monitoring wells will be performed in conjunction with this sampling and monitoring event.

7.0 REFERENCES

1. Golder Associates Inc., *Site Management Plan, Vanchlor Company, Inc., NYSDEC Site No. 932039*, prepared for Vanchlor Company, Inc., January 2015.

TABLE 5-2
(Table 5-1 in Text)

PERIODIC REVIEW REPORT

SITE # 932039 - VANCHLOR COMPANY, INC.
LOCKPORT, NY

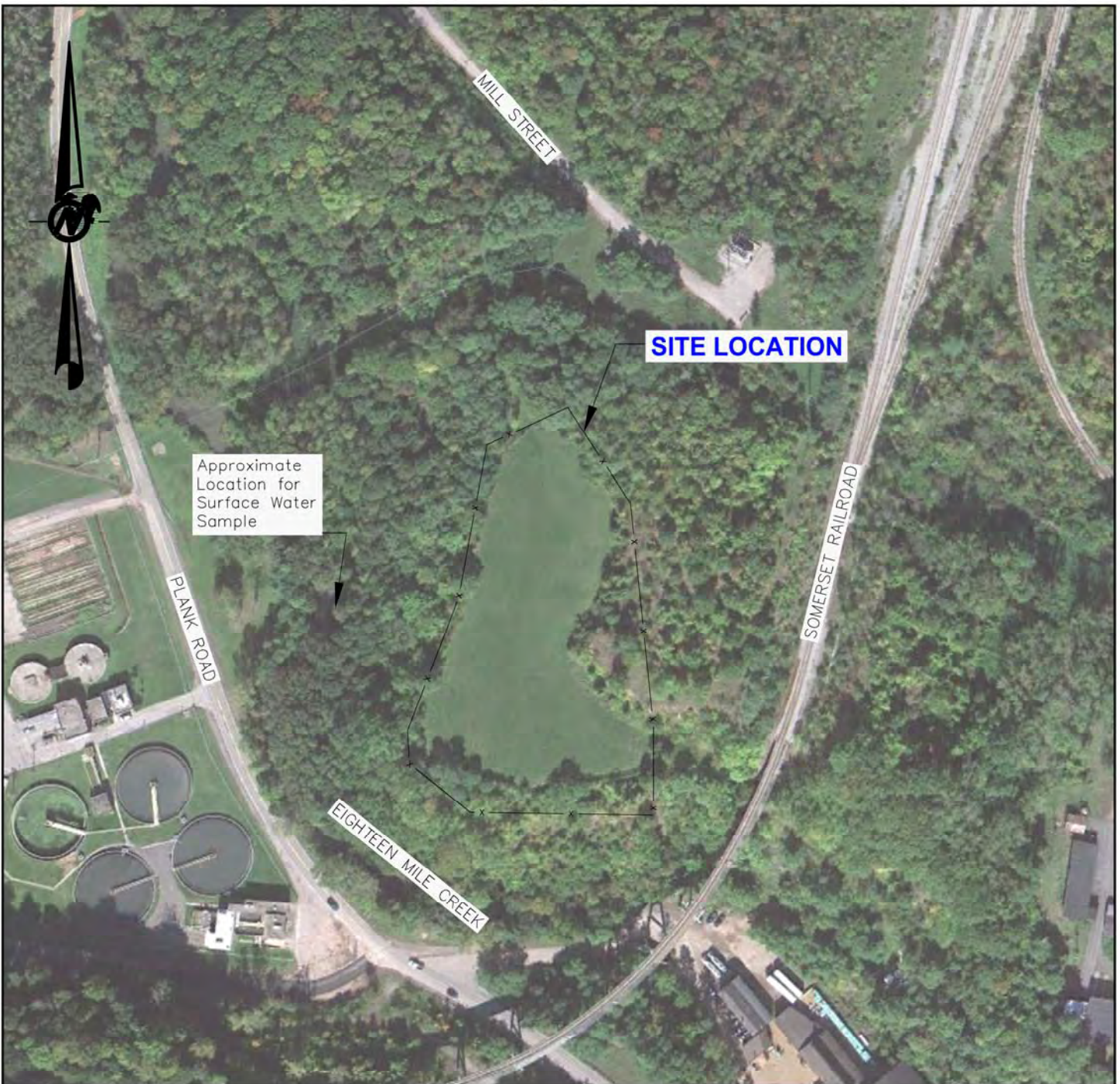
| Lab ID Sample ID Sample Date Sample Matrix Units | NYSDEC Class GA Groundwater Standards (ug/L) | NYSDEC Class A, A-S, AA, AA-S Surface Water Standards/Guidance Values (ug/L) | 022-1006-6 | | 019-0505-1 | | 022-1006-1 | | 019-0505-2 | | 022-1006-2 | | 019-0505-3 | | 022-1006-3 | | 019-0505-5 | | 022-1006-5 | | 019-0505-4 | | 022-1006-4 | | | | | | | | | |
|--|--|---|---------------|----------------------|---------------|---------|---------------|-------------------------|---------------|---------|---------------|----------------------|---------------------|---------|---------------|----------------------|----------------------|---------|---------------|---------|----------------------|---------|---------------|---------|---------------|-------|--------|-------|--------|-------|--------|----|
| | | | VDM-9 | | VDM-10 | | VDM-11 | | VDM-14 | | D-55 | | Eighteen Mile Creek | | | | | | | | | | | | | | | | | | | |
| | | | 10/6/14 | Trend | 5/6/14 | 10/6/14 | 5/6/14 | 10/6/14 | 5/6/14 | 10/6/14 | 5/6/14 | 10/6/14 | 5/6/14 | 10/6/14 | 5/6/14 | 10/6/14 | 5/6/14 | 10/6/14 | 5/6/14 | 10/6/14 | 5/6/14 | 10/6/14 | 5/6/14 | 10/6/14 | | | | | | | | |
| | | | Water ug/L | | Water ug/L | | Water ug/L | | Water ug/L | | Water ug/L | | Water ug/L | | Water ug/L | | Water ug/L | | Water ug/L | | Water ug/L | | Water ug/L | | Water ug/L | | | | | | | |
| Volatile Organic Compounds (VOCs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloroform | 7 | 7 | <2 | Decreasing | <10 | D | 2.3 | Decreasing | <10 | D | 2.9 | Neutral | 30.5 | D | 51.9 | Neutral | <10 | D | <2 | <10 | D | <2 | <10 | D | <2 | | | | | | | |
| 1,2-Dichloroethane | 0.6 | 0.6 | <2 | Neutral ² | <10 | D | <2 | Neutral | <10 | D | <2 | Neutral | <10 | D | 12.6 | Neutral ² | <11 | D | <2 | <11 | D | <2 | <10 | D | <2 | | | | | | | |
| trans-1,2-Dichloroethene | 5 | 5 | 5.5 | Neutral | <10 | D | <2 | Neutral | <10 | D | <2 | Neutral | 479 | D | 895 | D1 | <12 | D | <2 | <12 | D | <2 | <10 | D | <2 | | | | | | | |
| Methylene Chloride | 5 | 5 | <2 | Neutral | <10 | D | <2 | Neutral | <10 | D | <2 | Neutral | <10 | D | 9.7 | Neutral | <13 | D | <2 | <13 | D | <2 | <10 | D | <2 | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 5 | 0.2 | <2 | Decreasing | <10 | D | <2 | Neutral | <10 | D | <2 | Neutral ² | 57.6 | D | 96.2 | D1 | <14 | D | <2 | <14 | D | <2 | <10 | D | <2 | | | | | | | |
| Tetrachloroethene | 5 | 0.7 | 9.6 | Decreasing | <10 | D | <2 | Neutral | <10 | D | 6.5 | Neutral | 212 | D | 337 | D1 | <15 | D | <2 | <15 | D | <2 | <10 | D | <2 | | | | | | | |
| Trichloroethene | 5 | 5 | <2 | Decreasing | <10 | D | <2 | Neutral | <10 | D | <2 | Neutral | 45.1 | D | 79 | Neutral | <16 | D | <2 | <16 | D | <2 | <10 | D | <2 | | | | | | | |
| Vinyl Chloride | 2 | 0.3 | <2 | Neutral | <10 | D | <2 | Neutral | <10 | D | <2 | Neutral | 19.3 | D | 26.9 | Neutral | <17 | D | <2 | <17 | D | <2 | <10 | D | <2 | | | | | | | |
| Toluene | 5 | 5 | <2 | Neutral | <10 | D | <2 | Neutral | <10 | D | <2 | Neutral | <10 | D | <2 | Neutral | <18 | D | <2 | <18 | D | <2 | <10 | D | <2 | | | | | | | |
| Metals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloride | 250,000 | 250,000 | 9,300,000 | D2 | -- | | 6,400,000 | D2 | 9,000,000 | D2 | -- | | 410,000 | D2 | 1,030,000 | D2 | -- | | 3,200,000 | D2 | 6,900,000 | D2 | -- | | 14,000 | D2 | 21,000 | D2 | 50,000 | D2 | 44,000 | D2 |
| Chromium | 100 | 50 | 22 | Neutral | 19 | | 15 | Increasing ¹ | 50 | D | 20 | Neutral ¹ | 100 | D | <500 | D | Neutral | 15 | <10 | <10 | Neutral ¹ | 30 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | | |
| Copper | 1,000 | 200 | 474 | Neutral | 205 | | 231 | Neutral | 760 | D | 500 | Neutral | 110 | D | <500 | D | Neutral ¹ | 30 | 14 | 14 | Neutral ¹ | 30 | 14 | 14 | 47 | 47 | 47 | 47 | 47 | 47 | | |
| Iron | 300 | 300 | 12.6 | Neutral | 32,900 | | 17,800 | -- | 19,100 | D | 12,400 | -- | 241 | D1 | 800,000 | D1 | -- | 9340 | 1,610 | 1,610 | -- | 832 | 832 | 832 | 432 | 432 | 432 | 432 | 432 | 432 | | |
| Zinc | 2,000 | 2,000 | 103 | Neutral | 1,400 | | 921 | Neutral ¹ | 310 | D | 132 | Neutral | 690 | D | 2,050 | D | Neutral ¹ | 904 | 17 | 17 | Neutral ¹ | 904 | 17 | 17 | <1000 | <1000 | <1000 | <1000 | <1000 | <1000 | | |

Footnotes:

- All values are in Parts per Billion (PPB).
- 5.5 = Value exceeds NYSDEC Class GA Groundwater /NYSDEC Class A, A-S, AA, AA-S Surface Water Standard
- ND = Not detected at the RL.
- D = Sample initially diluted due to sample matrix.
- D1 = Sample diluted due to initial result outside of linear calibrated range of the instrument.
- D2 = Sample initially diluted based on historical data.
- ¹ = The most recent semi-annual monitoring data is greater than the NYSDEC Exceedance Value for that parameter.
- ² = Latest 3-5 years (or more) have been non-detect for parameter.

Table by: JGT
Checked by:
Reviewed by:

FIGURES




LEGEND

----- FENCE / APPROXIMATE SITE PROPERTY LINE

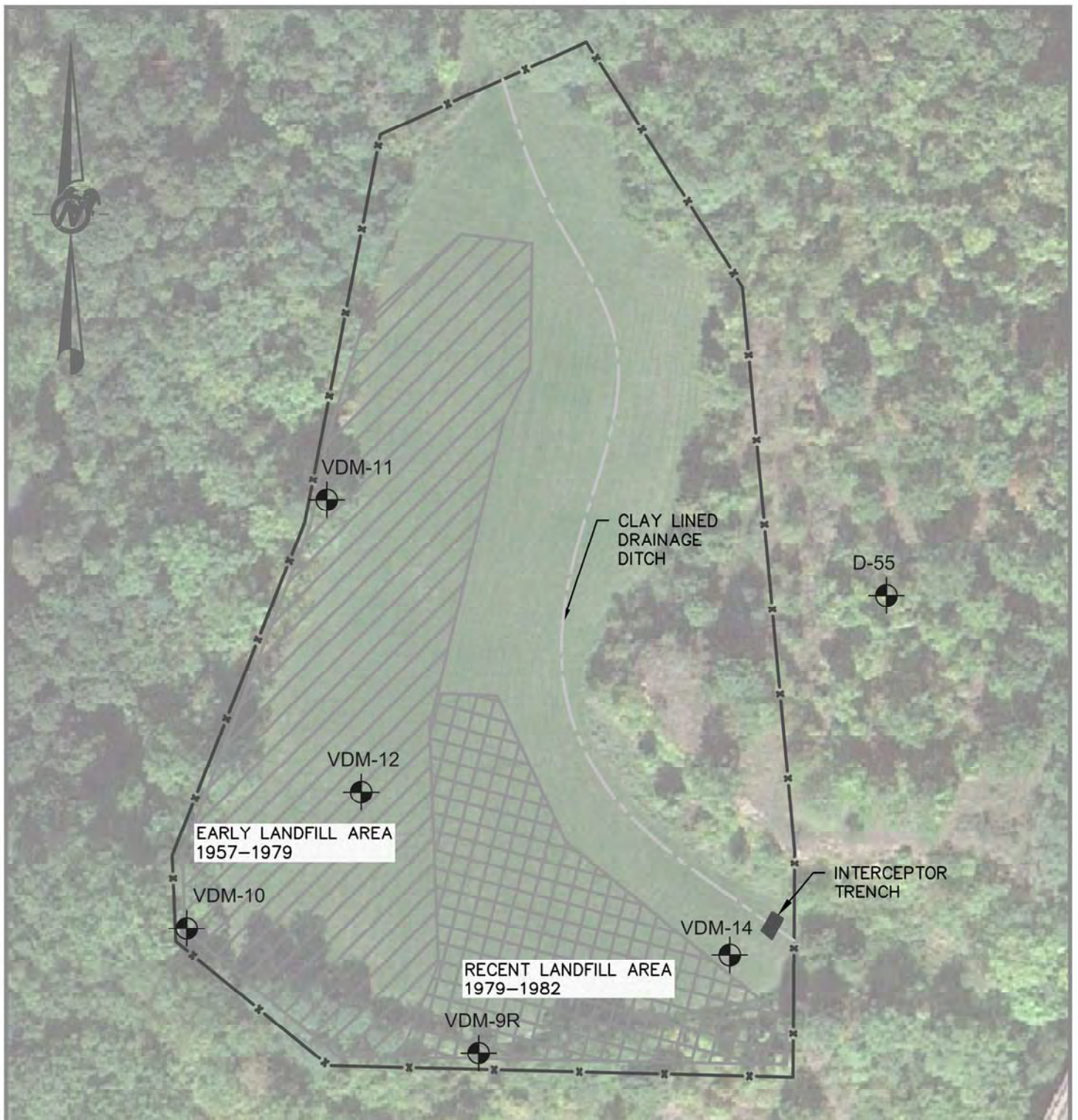
REFERENCES

- 1.) BASE MAP TAKEN PER GOOGLE EARTH AERIAL IMAGE (10/5/11)



| | | | |
|---|-------------|----------|---------------------------------------|
|  | SCALE | AS SHOWN | TITLE |
| | DATE | 9/3/14 | SITE LOCATION AND VICINITY MAP |
| DESIGN | JGT | | |
| FILE No. | 1403185A224 | CADD | JGT |
| PROJECT No. | 1403185 | CHECK | |
| REV. | 0 | REVIEW | |
| VANCHLOR CO. INC. | | | FIGURE 1-1 |

Drawing file: Base Map.dwg Apr 14, 2015 - 3:22pm



LEGEND

- FENCE / APPROXIMATE SITE PROPERTY LINE
- VDM-9R MONITORING WELL APPROXIMATE LOCATION

REFERENCES

- 1.) BASE MAP TAKEN PER GOOGLE EARTH AERIAL IMAGE (10/5/11)



| | |
|--------|----------|
| SCALE | AS SHOWN |
| DATE | 3/10/15 |
| DESIGN | JGT |
| CADD | JGT |

TITLE

**GROUNDWATER SAMPLE LOCATIONS
VANCHLOR LANDFILL**

| | |
|-------------|----------------|
| FILE No. | 1403800 |
| PROJECT No. | 1403800 REV. 0 |

| | |
|--------|--|
| CHECK | |
| REVIEW | |

VANCHLOR COMPANY INC.

FIGURE **5-1**

APPENDIX A
MONITORING WELL VDM-9 DECOMMISSIONING AND REPLACEMENT,
VANCHLOR LANDFILL, LOCKPORT, NEW YORK, JULY 2014



MONITORING WELL VDM-9 DECOMMISSIONING AND REPLACEMENT

Vanchlor Landfill
Town of Lockport
Niagara County, New York

REPORT

Submitted To: VanDeMark Chemical Inc.
1 North Transit Rd.
Lockport, New York 14094

Submitted By: Golder Associates Inc.
2430 N. Forest Road, Suite 100
Getzville, NY 14068 USA

Distribution:
1 Copy VanChlor Company Inc.
1 Copy New York State Department of Environmental Conservation
1 Copy Golder Associates Inc.

July 11, 2014

14-03185

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- Appendix A Monitoring Well Decommissioning Field Form and Mark-Up of Original Well Installation Log
- Appendix B Decommissioning and Replacement Well Installation Field Notes
- Appendix C Replacement Well VDM-9R Well Installation Log
- Appendix D Photo Log



1.0 INTRODUCTION

Golder Associates Inc. (Golder) has prepared this report which describes the activities associated with the abandonment and re-installation of groundwater monitoring well VDM-9 at the Vanchlor Company Inc. (Vanchlor) closed landfill located in the Town of Lockport, New York.

Pursuant to Part 373 requirements of Title 6 of the New York Codes, Rules and Regulations (6 NYCRR),

VanDeMark Chemical Inc. (VanDeMark) performs semi-annual groundwater monitoring and related monitoring and maintenance services under an agreement with Vanchlor. This monitoring was required under the former RCRA post closure permit and will be continued as part of a Site Management Plan that is being prepared under a Consent Order that will replace the RCRA permit. Golder was retained by VanDeMark with approval from Vanchlor to provide well abandonment/relocation oversight services for existing site groundwater-monitoring well VDM-9 at the Vanchlor Landfill.

VanDeMark personnel had observed that the well water production had recently been decreasing significantly during sampling events and the well riser integrity was compromised making collection of representative samples more and more difficult. VanDeMark discussed the status of the well with Mr. Stan Radon of the New York State Department of Environmental Conservation and it was agreed that the well should be abandoned and replaced with an equivalent groundwater monitoring well (VDM-9R).

As part of this project, one (1) existing groundwater monitoring well, VDM-9, was decommissioned and replaced approximately 10-feet to the east of the original well location. No other wells were decommissioned or installed at this location.

The VDM-9 monitoring well abandonment and replacement well installation was performed in general accordance with the NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy. .

1.1 Site Description and Background

The following section is excerpted from the semi-annual water quality data evaluation reports prepared by VanDeMark.

Vanchlor Landfill is located between Mill Street and Eighteen Mile Creek in Lockport, New York. The landfill consists of a 2.5 acre plateau located on a bluff approximately 80 feet above Eighteen Mile Creek. The landfill was closed during the summer of 1988 in accordance with the NYSDEC approved closure plan. Closure was designed to minimize the potential for hazardous constituents to be leached from the wastes and released to the groundwater. Vanchlor is required to monitor the effectiveness of the final cover system, inspect and maintain the integrity of the final cover, and continue to conduct groundwater monitoring for a minimum of 30 years from the date of closure. Vanchlor contracts with VanDeMark to perform the annual monitoring and maintenance activities.



Groundwater monitoring is performed on a semiannual basis in accordance with Module IV of the RCRA permit. The groundwater monitoring program has been designed to assess groundwater quality impacts at the landfill site. The groundwater monitoring program consists of sample collection and analysis of groundwater from monitoring wells VDM-9, VDM-10, VDM-11, VDM-14 and D-55 (background) for volatile organic compounds and select inorganic parameters. Samples are also collected from Eighteen Mile Creek just downstream of the site. Groundwater and surface water from Eighteen Mile Creek is analyzed for volatile organic compounds, metals and pH.

The groundwater quality for each analytical parameter at each well location is compared to background water quality data for down gradient monitoring wells having compounds with concentrations exceeding groundwater protection standards. A statistical method is used to evaluate long-term changes in groundwater quality by plotting the life of the well trend for wells for each the compounds in the groundwater protection standards.

1.2 Purpose

The purpose of this report is to provide an overview and description of the VDM-9 monitoring well abandonment and replacement well installation procedures that were completed as part of this project.

This report is organized in a format to provide the following information:

- The scope of work completed;
- Information regarding methods employed for the abandonment of existing site groundwater monitoring well VDM-9;
- Information regarding methods employed for the installation of replacement site groundwater monitoring well VDM-9R; and



2.0 MONITORING WELL DECOMMISSIONING

As mentioned in Section 1.0, monitoring well VDM-9 was decommissioned and replaced with an equivalent well into the underlying bedrock unit. Monitoring well decommissioning was performed by Nothnagle Drilling (Nothnagle) and decommissioning activities were overseen by Golder and VanDeMark personnel.

The monitoring well decommissioned (VDM-9) was reportedly installed in 1983 using 4.25-inch inside diameter (ID) hollow stem augers (HSAs). Well decommissioning was performed by Nothnagle using 6.25-inch ID HSAs to overdrill the borehole.

The following activities and procedures were performed to complete VDM-9 well decommissioning:

- Placement of a temporary stone drilling platform constructed on side slope around existing well in preparation for decommissioning activities;
- Overdrilling of the well to eight (8)-feet bgs using 6.25 inch ID HSAs, with minimal to no concrete surface seal present;
- Removal (pulling) of the majority of well assembly (14.5-ft of solid casing) from hole;
- Grouting of the remaining well casing and screen section (5-feet) in place within the borehole;
- Backfilling of the borehole from the bottom of the borehole with grout placed using tremie methods to near ground surface (see decommissioning log presented in Appendix B); and,
- Placement of soil in the remaining portion of borehole.
- Removal and surface restoration of the temporary stone drilling bench following installation of replacement well (see Section 3.0 below).

It should be noted that due to the placement of a stone drilling bench around the well on the south slope of the landfill for safe drilling purposes, the referenced well was only overdrilled to approximately eight (8) feet into the well borehole to minimize the potential for undermining the stone drilling bench during auger removal. Prior to overdrilling existing well VDM-9 with 6.25-inch ID HSAs, the driller attempted to insert AW-size drilling rods down the inside of the 2-inch outside diameter (O.D.) PVC well riser casing but was unable to lower the rods due to the undersized inner casing annulus of the well. Therefore, approximately 40-50% of the well riser was able to be pulled out after overdrilling with augers and the remaining well assembly, including the 5-foot screened section, was grouted in place within the borehole, following approval by the NYSDEC. Cuttings and well materials were placed at the well location for management and disposal by VanDeMark

A monitoring well decommissioning field log and a marked-up copy of the monitoring well installation diagram was prepared for well VDM-9. The forms summarize the materials used to decommission the



well and the length of the well overdrilled. The monitoring well decommissioning field log as prepared by Golder and the marked-up copy of the monitoring well installation log are presented in Appendix A. The VDM-9 well decommissioning and VDM-9R replacement well installation field notes are provided in Appendix B.



3.0 MONITORING WELL INSTALLATION PROCEDURES

3.1 General

This section of the report outlines the general procedures followed for installation of the replacement overburden groundwater monitoring well, in accordance with the NYSDEC guidance for new well installations and to be consistent with the installation approach used for the original well where feasible. One well was installed as part of this project and installation oversight for replacement well VDM-9R was provided by Golder.

Nothnagle installed the replacement groundwater monitoring well, with Golder providing field oversight of the drilling and well installation activities. Drilling activities for well installation were completed on May 29, 2014. The installed well location is depicted on Figure 2.

3.2 Installation of Bedrock Replacement Well

Replacement well VDM-9R was installed to approximately the same depth as the original well location for VDM-9 (i.e., approximately 31 feet below grade surface [bgs]) into the underlying weathered bedrock unit and is designated as a replacement well (R). The following is a discussion of the procedures that were used to install the bedrock unit well at replacement well location VDM-9R:

1. All drilling equipment (i.e., drill rig, all tools and tool boxes, and all drill rods, plugs, water tank and augers) was decontaminated with potable water using a pressure washer prior to arrival on site. Decontamination procedures are discussed in Section 3.4 of this report.
2. The drillers and Golder's oversight geologist arrived at the landfill site and prepared the rig for drilling. The well location was staked by Golder and VanDeMark personnel to minimize the distance from the original VDM-9 location but provide a sufficient buffer (i.e., 8-10 feet) to minimize potential impacts from the grouting of the decommissioned well. The bedrock unit replacement well VDM-9R was installed (per specifications) no more than ten feet east of the corresponding abandoned well VDM-9, parallel with the southern embankment of the landfill.
3. Drilling began with 4¼-inch inside diameter HSAs. No split spoon sampling was performed during drilling activities for the replacement well installation.
4. Drilling with HSAs continued to approximately 11-feet below ground surface (bgs). Driller then switched over to rotary bit air-drilling using a 3^{7/8}-inch tri-cone roller bit due to difficult augering conditions encountered. Rotary bit drilling continued until target depth was reached and saturated conditions were encountered in the bedrock unit (based on existing soil boring log for original well VDM-9).
5. Total depth of the boring was measured and the borehole was prepared for installation of the monitoring well.
6. Drilling rods were pulled from the borehole prior to well installation.
7. The well screen and riser, being cleaned, wrapped, and heat sealed at the factory, were not steam cleaned prior to installation.



8. The well was constructed of two-inch inside diameter (ID) schedule 40 polyvinyl chloride (PVC) riser and five-foot machine-slotted PVC screen with a slot opening of 0.01-inches (10 slot). Screen and riser pipe sections were threaded together (hand-tightened) to construct the well and the factory installed Viton "O" rings on the male ends of the screens and risers were left in place prior to threading the pipe sections together. The well was installed in such a way that the top of the well had approximately a 30-inch stickup above ground surface. The screen and riser pipe sections were placed into the borehole with both end caps in place.
9. #0 N Morie graded sand was next dropped to the bottom of the borehole from the surface through the annulus of the HSAs with frequent and careful measurements of the sand pack thickness. The sand pack was allowed to settle for a minimum of 20 minutes. The sand pack, when complete, was extended a minimum 2 feet above the well screen within the borehole.
10. A layer of dry bentonite chips approximately three feet thick was added above the sand pack. Since the bentonite seal was placed above the ground water level within the borehole, potable water was added to hydrate the bentonite chips. The chips were allowed to hydrate for approximately 30 minutes and the depth to the top of the bentonite seal was measured and recorded.
11. Grout slurry composed of bentonite, cement, and water was mixed in general accordance with the following specifications:
 - 1.5% to 3.0% weight - Dry Bentonite
 - 40% to 60% weight - Cement (Portland Type I)
 - 35% to 55% weight - Potable WaterBentonite and water were premixed prior to adding cement.
12. The grout slurry was pumped under pressure into the borehole up to within 1 foot of the ground surface (below the 4-foot thick temporary stone drilling bench).
13. Upon removal of the stone drilling bench, the area for the well seal was excavated around the well and an 18-inch diameter "sono tube" was placed into the excavation to a minimum depth of approximately 1-foot. The area around the sono tube was backfilled with excavated soil. The sono tube was then filled with cement to a depth of approximately 1-foot, (approximately the top of cement/bentonite grout) and shaped at the surface to prevent surface runoff from ponding and entering the well protective casing.
14. A four inch diameter, anodized stainless steel square protective casing with locking cap was pushed into the cement surface so that the top of the protective casing was from a minimum of 0.5 foot above the top of the riser pipe. A drain hole was drilled into the protective casing near the bottom of the casing.
15. A lock was subsequently placed on the well protective casing.

Material quantities were also recorded for replacement well VDM-9R installation on the well installation log, including the amount of sand, bentonite pellets, grout, length of well screen and riser pipe footage.

The location of the well, elevation of the ground surface and the top of the riser pipe will be surveyed by VanDeMark.



The well installation log prepared by Golder is provided as Appendix C. A photo log of the decommissioning and well replacement activities is provided in Appendix D.

3.3 Decontamination of Drill Rig and Equipment

Drilling equipment (i.e. drill rig, tools, drill rods, plugs and augers) used during the drilling program was decontaminated prior to decommissioning of the original well, between wells, and at the completion of the project. Decontamination was performed with potable water using a pressure washer at the drilling contractor's maintenance shop upon demobilization from site.

GOLDER ASSOCIATES INC.

A handwritten signature in black ink that reads "Russell J. Marchese".

Russell J. Marchese
Senior Project Geologist

A handwritten signature in black ink that reads "Patrick T. Martin".

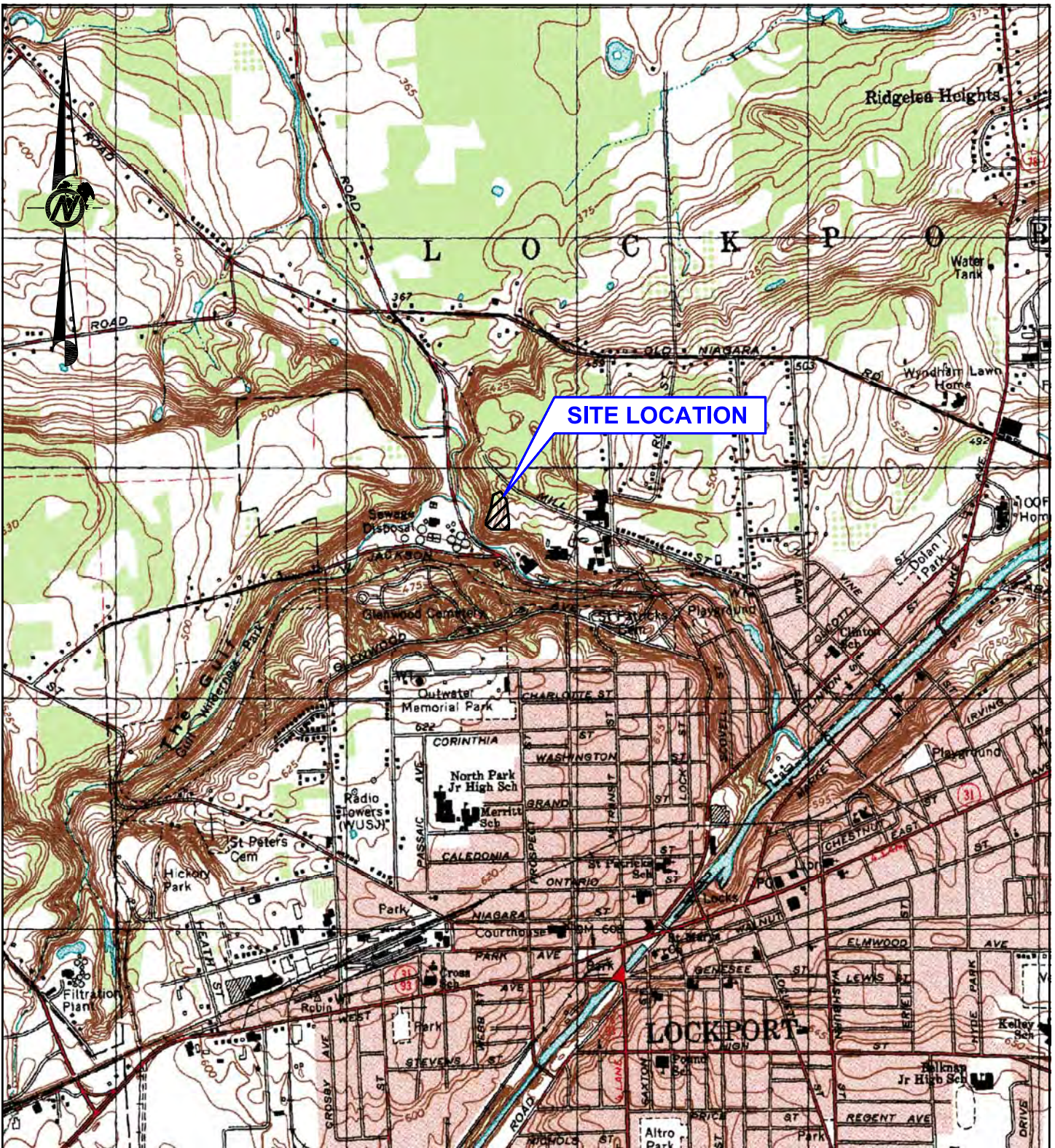
Patrick T. Martin, P.E.
Associate & Senior Consultant



4.0 REFERENCES

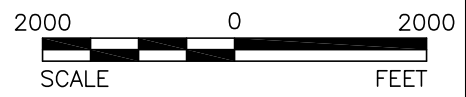
VanDeMark Chemical Inc., June 2012, "Semi-Annual Post-Closure Water Quality Data Evaluation Report, Vanchlor Landfill, Lockport, New York


FIGURES

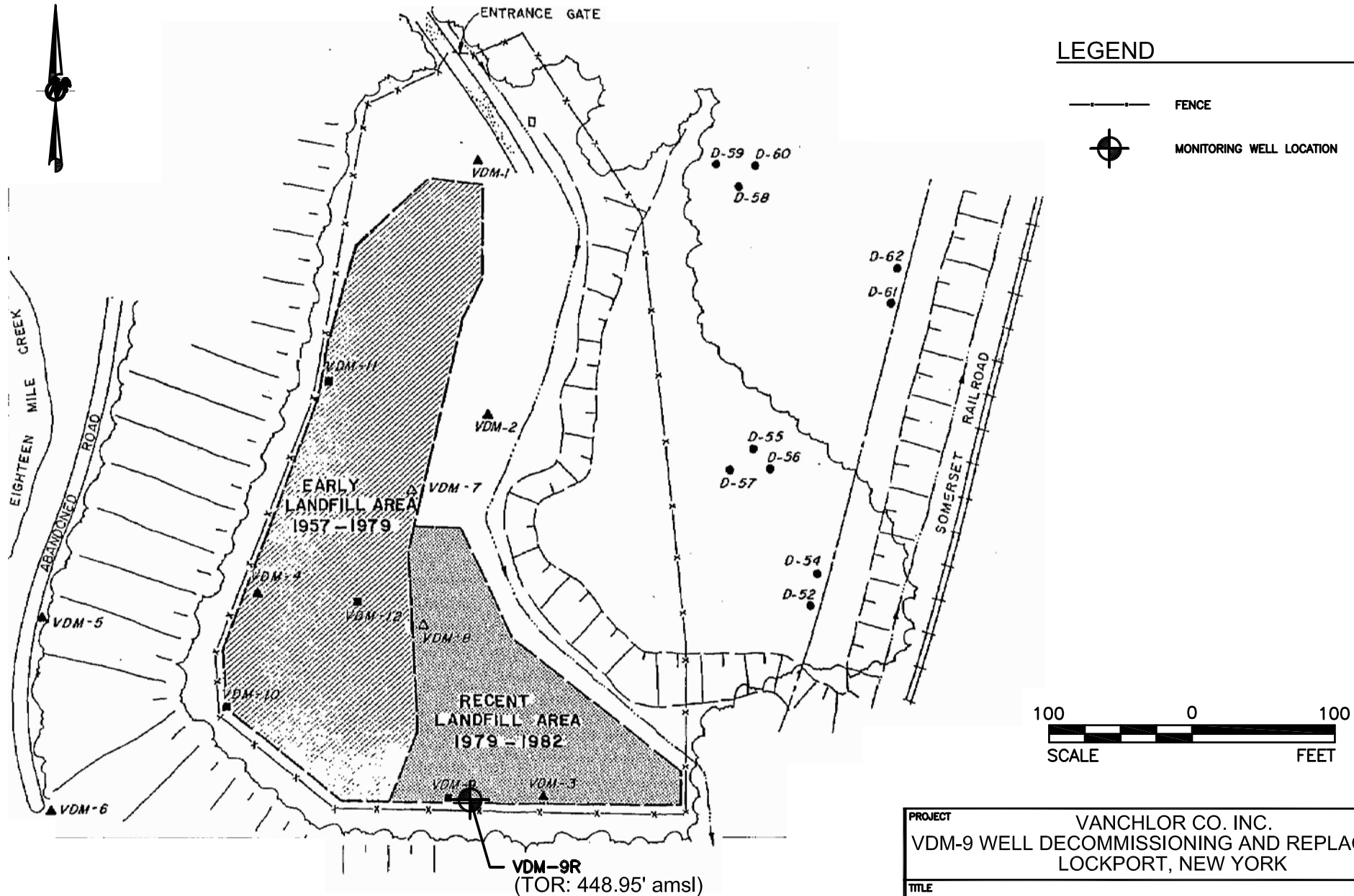


REFERENCES

1.) BASE MAP TAKEN FROM U.S.G.S. 7.5 MINUTE QUADRANGLE OF LOCKPORT, NEW YORK DATED 1980.



| | | | |
|---|----------------|----------|--|
|  <p>Golder Associates Buffalo, New York</p> | SCALE | AS SHOWN | <p>SITE LOCATION MAP</p> <p>VANCHLOR CO. INC.</p> |
| | DATE | 7/11/14 | |
| | DESIGN | AML | |
| | CADD | JGT | |
| FILE No. | 1403185A224 | CHECK | <p>FIGURE 1</p> |
| PROJECT No. | 1403185 REV. 0 | REVIEW | |



REFERENCE

- 1.) BASE MAP SOURCE IS FIGURE 2, EARLY AND RECENT LANDFILL AREAS, VANDEMARK LANDFILL CLOSURE PLAN, CONESTOGA-ROVERS ASSOCIATES, FEBRUARY 1987.
- 2.) ELEVATION OF VDM-9R MEASURED FROM TOP OF RISER. (TOR)
- 3.) VDM-9R XY COORDINATES: n:1160547.2. e:1116396.7 (NAD83, NYSTATE PLANE)

VDM-9R
(TOR: 448.95' amsl)

PROJECT VANCHLOR CO. INC.
VDM-9 WELL DECOMMISSIONING AND REPLACEMENT
LOCKPORT, NEW YORK

TITLE
**REPLACEMENT WELL VDM-9R
LOCATION MAP**



| | | | |
|-------------|----------------|--------------|-------------|
| PROJECT No. | 1403185 | FILE No. | 1403185A224 |
| DESIGN | PTM 6/25/14 | SCALE | AS SHOWN |
| CADD | GS/RJM 6/25/14 | REV. | 0 |
| CHECK | RJM 7/7/14 | FIG 2 | |
| REVIEW | | | |

APPENDIX A

**MONITORING WELL DECOMMISSIONING FIELD FORM AND MARK-UP OF ORIGINAL
WELL INSTALLATION LOG**



WELL DECOMMISSIONING FORM

WELL NO. VDM-9

WELL INFORMATION

| | | | |
|---------------------|-------------------------------|---------------------|-------------------------|
| WELL INSTALLED BY | <u>EARTH DIMENSIONS, INC.</u> | DATE INSTALLED | <u>December 9, 1983</u> |
| DESIGN WELL DEPTH | <u>31-FT btoc</u> | MEASURED DEPTH | <u>30.4-FT btoc</u> |
| DEPTH TO WATER | <u>23.95-FT btoc</u> | WELL CASING TYPE | <u>Sch. 40 PVC</u> |
| INSIDE CASING DIA. | <u>2-INCH</u> | INSIDE CASING DEPTH | <u>23.0-FT</u> |
| SCREEN TYPE | <u>Sch. 40 PVC 0.01-slot</u> | SCREEN LENGTH | <u>5-ft.</u> |
| SURFACE CASING TYPE | <u>Steel</u> | SURFACE CASING DIA. | <u>4-inch</u> |
| BOREHOLE DIA. | <u>8-inch</u> | (KNOWN OR ASSUMED) | <u>Assumed</u> |

DECOMMISSIONING INFORMATION

| | | | |
|-------------------------------|---|---------------------------------|------------------------|
| DECOMMISSIONING SUPERVISED BY | <u>R. Marchese</u> | DATE | <u>5/29/2014</u> |
| SURFACE CASING REMOVED? | <u>Yes</u> | | |
| WELL CASING REMOVED? | <u>Yes</u> | (PULLED OUT-DRILLED OUT) | |
| OVERDRILLING METHOD | <u>6 1/4-inch H.S.A.</u> | DRILL RIG | <u>CME-55 ATV</u> |
| OVERDRILL DEPTH | <u>8-Ft.</u> | OVERDRILL DIA. | <u>10-inch</u> |
| GROUT TYPE | <u>Portland</u> | GROUT MIX RATIO | <u>3-bags Portland</u> |
| CALCULATED VOLUME REQUIRED | <u>~40-50 gallons</u> | <u>~1/4-bag Bentonite</u> | |
| VOLUME TAKEN | <u>~50-gallons tremied under pressure</u> | | |

COMMENTS

Began overdrilling well on 5/29/14; began by overdrilling steel surface casing with 6 1/4" I.D. HSAs through approx. 4-ft. thick stone drilling bench on slope; reached depth of approximately 8-ft. bgs with augers. Driller noted he will stop drilling for safety concerns when retrieving augers through stone drilling platform (potential for undermining drilling rig pad. Drillers note PVC well casing appears to be grouted to inside of steel protective casing. Attached slip strap to PVC casing inside steel casing and pulled out with rig winch. Steel casing removed with 14.5-ft. of PVC well casing; well assembly broke at threaded section. Call to Golder PM to confirm grouting remaining well assembly (including screen section) in place within borehole. Augers removed after grouting. Grouted borehole on 5/29/14 with approx. 50-gallons cement/bentonite grout. Protective casing, well casing and drill cuttings left at well site by Nothnagle for disposal by VDM. Upper 3-4 feet of borehole in filled with soil cuttings and stone pad later removed by Oregon's Contracting.

JOB NUMBER: 14-03185
PROJECT: VDM/LF Well Replacement/NY

MADE BY: R. Marchese
DATE: 5/30/2014

STRATIGRAPHIC AND INSTRUMENTATION LOG

PROJECT NAME: VAN DE MARK LANDFILL SITE JOB NO: 1277 HOLE NO: VDH-9
 CLIENT: VAN DE MARK CHEMICAL COMPANY DATE COMPLETED: DECEMBER 9, 1983
 HOLE TYPE: 8" Ø HOLLOW STEM AUGER LOCATION: MID-SOUTHERN LIMIT OF LANDFILL
 GEOLOGIST/ENGINEER: DAVE BLACK GROUND ELEVATION: 446.3 TOP OF PIPE ELEVATION: 447.22

| DEPTH (ELEVATION) | PROFILE STRATIGRAPHY DESCRIPTION & REMARKS | MONITOR INSTALLATION | SAMPLE | | PENETRATION TEST BLOWS / FOOT | | | | |
|-------------------|---|--|--------|------|-------------------------------------|----------------|----|----|----|
| | | | NUMBER | TYPE | BLOWS / FOOT | FC 40 60 80 90 | | | |
| | | | | | | FC | 40 | 60 | 80 |
| 450 | | Protective Casing w/ Locking cap | | | | | | | |
| | | 447.22 | | | | | | | |
| 445 | | 444.3 | 1 | SS | 40 | | | | |
| | Rock fragments, some red silt | Grout | 2 | SS | 34 | | | | |
| 440 | | | 3 | SS | 22 | | | | |
| | Red silt and | | | | 26 | | | | |
| | | Benton- ite Plug | 4 | SS | 11 | | | | |
| 435 | | | 5 | SS | 18 | | | | |
| | silt, some rock fragments | | | | 93 | | | | |
| | | Sand Pack | 6 | SS | 75 | | | | |
| | Red clayey silt, dense with orange streaks | | 7 | SS | 54 | | | | |
| 430 | Dark red layered shale, very soft | | | | 96 | | | | |
| | Grey-brown siltstone, very soft, layered; fine sand interbeds, red and yellow-green mottling throughout | 2" Ø PVC Well | 8 | SS | 50 | | | | |
| | Not sampled (427.6-assumed top of rock) | 427.6 | 9 | SS | 100+ | | | | |
| | Grey sandstone, moderately hard | | | | -- | | | | |
| 425 | Grey-brown siltstone, very soft, layered; fine sand interbeds, red and yellowish green mottling throughout | | 10 | SS | 100+ | | | | |
| | Not sampled | | | | -- | | | | |
| | Grey weathered shale, thin layers, some red and some yellowish green staining of horizontal planes | | 11 | SS | 100+ | | | | |
| | Not sampled | | | | -- | | | | |
| 420 | Dark green-grey sandstone, medium grained, moderately soft, thin layered, some fractures (formation not determined) | 421.2 | 12 | SS | 100+ | | | | |
| | | 5' PVC Screen | | | | | | | |
| | | 416.4 | | | | | | | |
| 415 | | | | | | | | | |

DECOMMISSIONED MAY 2014

APPENDIX B

DECOMMISSIONING AND REPLACEMENT WELL INSTALLATION FIELD NOTES

H-03185

579 P. County

Vandenberg Well Replenisher 5/29/14

0820- Arrive @ Guard shack + sign in
↳ Brian Low steps down to provide access to landfill area

0835- Notnagle Drillers (2 man crew) arrive. Head up to landfill area. (Rubber tracked ATV CME-53)
Tom Marge-Frida, John Wilkins (Notnagle).

0850- Mob rig in to well VDM-9; assess stone bench around drilling area w/ Brian Low (VDM).
↳ Will need additional stone placed further to the west of VDM-9 by Oregon's Contracting

0925- Call to P. Martin to update.

↳ We will start augering for replacement well VDM-9R in the meantime.

→ New well location approx 8-10 FT to east of existing well VDM-9.

1000- Current depth @ VDM-9R approx 11-Ft bgs; driller will switch to air rotary due to encountering harder till. For safety reasons, auguring further may undermine stone drill bench.

↳ Switch drilling head over to air rotary setup.

↳ Air-hammer attachment: 3^{7/8}" air rotary tri-cone

1025- Begin air-rotary drilling from 11-Ft bgs; 4^{1/4}" HSA's set to approx 11-Ft bgs.

58°F Overcast

14-03185

VDM-9R Drill Log Start: 0945

5/29/14

| Depth | PID | Notes: |
|-----------|---------|---|
| 0-2 Ft. | 0.0 ppm | (Stem bench) |
| 2-5 Ft. | 0.0 ppm | (Stem bench) - ground @ approx 4 FT below stem pad. |
| 5-8 Ft. | 0.0 ppm | (Native soil). |
| 8-11 Ft. | 0.0 ppm | (Hard + V1) - tip of augers working |
| 11-15 Ft. | 0.0 ppm | (3 3/8" torque drilling). |
| 15-18 Ft. | 0.0 ppm | tri-cone, dry cuttings |
| 18-21 Ft. | 0.0 ppm | " " , dry cuttings |
| 21-24 Ft. | 0.0 ppm | " " , dry cuttings |
| 24-27 Ft. | 0.0 ppm | " " , dry cuttings |
| 27-30 Ft. | 0.0 ppm | " " " " |
| 30-33 Ft. | 0.0 ppm | " " " " |
| 33-34 Ft. | 0.0 ppm | " " " " |

VDM-9 Drill Log

5/29/14

| | | |
|----------|---------|-------------------------------|
| 0-2 Ft. | 0.0 ppm | (Pre-casing) water |
| 2-5 Ft. | 0.0 ppm | dry cuttings |
| 5-8 Ft. | 0.0 ppm | |
| 8-11 Ft. | 0.0 ppm | |

- pulled out casing.

14-03185

63°F Overcast VANDUWANK Well Replacement

5/29/14

1050 - Current depth @ 24-FT bgs; will drill to target depth of 28-FT bgs and assess groundwater conditions.

↳ Dry drill cuttings to 24-FT bgs.

1100 - Call to P. Martin w/ Brian Lewis; agree to drill to approx 35-FT bgs (another 7-FT Extra current depth) and re-assess.

1115 - Resume air rotary drilling from 28-FT bgs.

1140 - Drilled to 34-FT bgs; drill head swapped off during drilling.

↳ Pull drill rods and tape hole for total depth.
→ TO of VDM-9R @ 34.4 FT bgs; some moisture on outside of drill rods and on depth tape, approx 2-3 FT of GUL possibly present. in BH.

1150 - Call to Pat Martin (Golden); update him on drilling progress.

↳ Waiting for response from Stan Raden (DEC).

1200 - Driven break for lunch; wait for call back from P. Martin.

1230 - Response from P. Martin; per S. Raden (NYSDEC) install well @ VDM-9R due to signs of water.

14-03184

Van der Max well replacement 5/29/14

1245 - Drillers base on site; retype Btt for water level

↳ approx. 5-6 ft. of water present.

→ Set 5-ft. screen w/ 2-3 ft of sand above screen.

1310 - Well screen set to approx 34-ft by using 5-ft screen (0.01" slot), sand placed to ~24.3 ft by bent chip seal to ~21.3 ft by. Water added (~5 gals) to hydrate chips. Wait approx. 20 minutes for chips to hydrate. Clean off drill cuttings + remove wooden cuttings pad.

bottom of auger (11-ft by) Room

1330 - Grout added to ground level ~~(short pad)~~ ^{Room} interface. Will install for VDM-9R complete.

Pull auger (15-ft).

1415 - Notnagle cut metal cap off VDM-9 casing; W.L. @ 23.95' b.t.c.; TD @ 30.14' b.t.c.

↳ Casing cut w/ hand grinder.

1430 - Begin overdrilling of VDM-9 steel casing using 6 1/4" HSA's in attempt to break up any concrete pad @ base of well casing.

1440 - 8 ft of 6 1/4" HSA's drilled; Driller Note: Appears

14-03185

60% P.C. Van der Max well replacement 5/29/14

2" PVC casing may be grouted to inside of steel casing.

↳ Driller stepped augering for safety reasons w/ incline of drill pad.

↳ Will attempt to send down split spoon w/ sand and PVC-Rods to grip inside of PVC and pull out PVC casing.

1500 - Slipped strap over casing and pulled out approx. 14.5 ft of casing (solid) w/ steel casing (~5-ft). PVC casing was grouted to inside of proccasing.

↳ Screen length still in borehole (5-ft) + 40+ ft. of PVC riser.

1505 - Brian Law notes should be OK to grout remaining PVC riser + screen in borehole.

↳ Call to Pat Martin to inform. He agrees to do have Notnagle grout remaining VDM-9 casing in borehole.

→ 1515 - Notnagle proceeds w/ grouting procedures for VDM-9 boring location. (Traverse grouting)

1545 - Excavating of abandoned VDM-9 well completed.

↳ Clean up site + Notnagle stores drum of drill cuttings on pallet for removal by Oregon.

→ Well casing pieces also left on pallet for disposal

14-03188

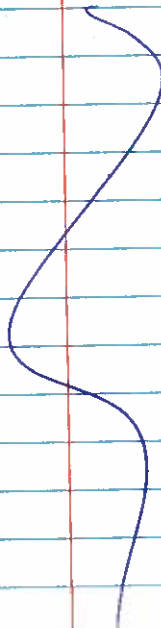
Vandenberg Well Replacement g/cj/cj

Nothnagle will be on site (Vandenberg plant) on Monday, June 2, 2014 for other drilling work and may set concrete pad @ replacement well VOM-9R.

↳ Organ's scheduled to tentatively dig out Stone drill pad tomorrow (Friday, May 30, 2014)

→ 1605 - Head off site; Nothnagle will lock gates behind them when leaving.

End of Day
RTR



APPENDIX C

REPLACEMENT WELL VDM-9R WELL INSTALLATION LOG

MONITORING WELL INSTALLATION LOG

| | | | |
|---|---|----------------------------------|----------------------------------|
| JOB NO. <u>14-03185</u> | PROJECT <u>VANDEMARK/LANDFILL WELL REPLACEMENT/NY</u> | WELL NO. <u>VDM-9R</u> | SHEET <u>1 of 1</u> |
| GA INSP. <u>RJM</u> | DRILLING METHOD <u>4 1/4" I.D. HOLLOW STEM AUGERS</u> | CONC.PAD ELEV. <u>~444.0 Ft.</u> | WATER DEPTH <u>~29.0 Ft. BGS</u> |
| WEATHER <u>P. CLOUDY</u> | DRILLING COMPANY <u>NOTHNAGLE DRILLING, INC.</u> | COLLAR ELEV. <u>~447.0 Ft.</u> | DATE/TIME <u>1245/05-29-14</u> |
| TEMP. <u>65° F</u> | DRILL RIG <u>CME-55 ATV</u> | DRILLER <u>T. MANGEFRIDA</u> | STARTED <u>1250/05-29-14</u> |
| LOCATION / COORDINATES <u>N, E (APPROXIMATELY 10-FT EAST OF VDM-9 LOCATION)</u> | | COMPLETED <u>1330/05-29-14</u> | TIME / DATE |

MATERIALS INVENTORY

| | | |
|------------------------------------|--|--|
| WELL CASING <u>2.0 in. dia.</u> | <u>28.5</u> I.f. WELL SCREEN <u>2.0 in. dia.</u> | <u>5</u> I.f. BENTONITE SEAL <u>MEDIUM BENTONITE CHIPS</u> |
| CASING TYPE <u>SCH. 40 PVC</u> | SCREEN TYPE <u>MACHINE SLOTTED PVC</u> | INSTALLATION METHOD <u>POUR THROUGH AUGERS</u> |
| JOINT TYPE <u>FLUSH THREADED</u> | SLOT SIZE <u>0.01"-SLOT</u> | FILTER PACK QTY. <u>1.0-BAG</u> |
| GROUT QUANTITY <u>12-GALLONS</u> | CENTRALIZERS <u>NOT USED</u> | FILTER PACK TYPE <u>#00-N SIZE SAND</u> |
| GROUT TYPE <u>CEMENT/BENTONITE</u> | DRILLING MUD TYPE <u>NOT USED</u> | INSTALLATION METHOD <u>POUR THROUGH AUGERS</u> |

| ELEV./DEPTH | SOIL/ROCK DESCRIPTION | WELL SKETCH | INSTALLATION NOTES |
|---------------|--|-------------|--------------------|
| 449.23 | TOP OF CASING | | |
| 448.95 | TOP OF RISER | | |
| 446.0 | EXISTING GROUND SURFACE* | | |
| 0.0 | | | |
| 2 | | | |
| 4 | | | |
| 6 | | | |
| 8 | (CL), SILTY CLAY to (ML) CLAYEY SILT, some f-c gravel red to red-brown; dry, as interpreted from drill cuttings and original VDM-9 well log. | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 432.0 | | | |
| 14.0 | | | |
| 16 | | | |
| 18 | | | |
| 20 | | | |
| 22 | | | |
| 24 | Grey-brown siltstone and grey weathered shale, over dark green-grey sandstone, as interpreted from drill cuttings and original VDM-9 well log. | | |
| 26 | | | |
| 28 | | | |
| 29.0 | ▼ 29.0' PRE-INSTALLATION | | |
| 30 | | | |
| 32 | | | |
| 34 | | | |
| 411.6 | | | |
| 34.4 | EOB @ 34.4 FT. BGS | | |

APPENDIX D

PHOTO LOG



VANDEMARK LANDFILL – MONITORING WELL VDM-9 ADANDONMENT & REPLACEMENT

PHOTO 1

Nothnagle drill rig setup on stone drilling bench for abandonment and replacement of existing groundwater monitoring well VDM-9. View looking west.



PHOTO 2

Nothnagle drilling replacement groundwater monitoring well VDM-9R using 4 1/4" Hollow Stem Augers (HSAs) and 3 7/8" Tri-Cone air rotary drilling techniques. View looking west.





PHOTO 3

Nothnagle drilling replacement groundwater monitoring well VDM-9R, approximately 10-feet east of existing well VDM-9, visible in stone drilling bench (center-photo). View looking east.



PHOTO 4

Nothnagle driller cutting steel casing for access to PVC well riser during groundwater monitoring well VDM-9 abandonment activities. View looking west.





PHOTO 5

Overdrilling of existing groundwater monitoring well VDM-9 using 6 1/4" HSAs. View looking west.



PHOTO 6

Nothnagle pulling out existing groundwater monitoring well VDM-9 protective steel casing (grouted to PVC well riser). View looking west.





PHOTO 7

Section of recovered groundwater monitoring well casing at abandoned VDM-9 (approx. 14.5 linear feet). PVC well casing was grouted to inside of protective steel casing and snapped at flush threaded joint during removal. Remaining PVC riser and well screen were grouted in place.



PHOTO 8

Grouting of abandoned groundwater monitoring well VDM-9 after overdrilling and casing removal during abandonment activities.



At Golder Associates we strive to be the most respected global group of companies specializing in ground engineering and environmental services. Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organizational stability. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees now operating from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

| | |
|---------------|-------------------|
| Africa | + 27 11 254 4800 |
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| Australasia | + 61 3 8862 3500 |
| Europe | + 356 21 42 30 20 |
| North America | + 1 800 275 3281 |
| South America | + 55 21 3095 9500 |

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Fax: (716) 204-5878



APPENDIX B
ANALTICAL DATA REPORTS &
HISTORICAL PARAMETER TREND ANALYSES



2801 Long Road
Grand Island, NY 14072
(716) 773-8401
(800) 699-8606
(716) 773-8517 (fax)
www.islechem.com

Analysis Report

Client VandeMark Chemical, Inc.

One North Transit Road
Lockport, NY 14094-2399

Project Water Samples For Analysis

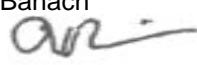
Semi-Annual Groundwater Monitoring

Report Date 5/20/2014
Status Final
ID **NY405019.0.39067**

Contact Chris Banach

Batch Sample Date 5/5/2014
Time 10:00
Description --
Received 5/6/2014
Time: 15:00

Batch Contact Chris Banach

Authorized Signature 

Richard V. Finn, Manager of Chemical Testing

The following result table is for 7 samples received by IsleChem LLC on 5/6/2014 sampled by Jeff Velarde on 5/5/2014 and submitted by Jeff Velarde

Also enclosed are the Chain of Custody and Sample Receipt check list for this project.

Narrative:

Analyses were performed within the required holding times unless otherwise noted below. All quality control results were within acceptable limits unless specifically noted in the report. Quality control analyses were performed on the samples in this report or samples of similar matrix that were analyzed in the analytical batch on the dates indicated in the report.

Notes:

Sample Results

Report ID NY405019.0.39067

Sample ID

Client VandeMark Chemical, Inc.

Method

| Analyte | Results | Units | Qualifiers | Analyst | Vessel ID | Date |
|---------|---------|-------|------------|---------|-----------|------|
|---------|---------|-------|------------|---------|-----------|------|

019-0505-1 VDM-10 - Ground Water Sampled 5/5/2014**Metals**

EPA 200.7 Rev 4.4

| | | | | | | |
|-----------------|-------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | 0.019 | mg/L | | RVF | 274601 | 2014-05-15 |
| Copper, Total | 0.205 | mg/L | | RVF | 274601 | 2014-05-15 |
| Iron, Total | 32.9 | mg/L | | RVF | 274601 | 2014-05-15 |
| Zinc, Total | 1.40 | mg/L | | RVF | 274601 | 2014-05-15 |

Volatiles

EPA 8260C

| | | | | | | |
|---------------------------|--------|------|---|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 10.0 | ug/L | D | RRS | 274599-274600 | 2014-05-11 |
| Methylene chloride | < 10.0 | ug/L | D | RRS | 274599-274600 | 2014-05-11 |
| trans-1,2-Dichloroethene | < 10.0 | ug/L | D | RRS | 274599-274600 | 2014-05-11 |
| Chloroform | < 10.0 | ug/L | D | RRS | 274599-274600 | 2014-05-11 |
| 1,2-Dichloroethane | < 10.0 | ug/L | D | RRS | 274599-274600 | 2014-05-11 |
| Trichloroethene | < 10.0 | ug/L | D | RRS | 274599-274600 | 2014-05-11 |
| Toluene | < 10.0 | ug/L | D | RRS | 274599-274600 | 2014-05-11 |
| Tetrachloroethene | < 10.0 | ug/L | D | RRS | 274599-274600 | 2014-05-11 |
| 1,1,2,2-Tetrachloroethane | < 10.0 | ug/L | D | RRS | 274599-274600 | 2014-05-11 |

WetChem

SM 4500-Cl-B-97,11

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 6400 | mg/L | D2 | ME | 274602 | 2014-05-20 |

019-0505-2 VDM-11 - Ground Water Sampled 5/5/2014**Metals**

EPA 200.7 Rev 4.4

| | | | | | | |
|-----------------|------|------|---|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | 0.05 | mg/L | D | RVF | 274605 | 2014-05-15 |
| Copper, Total | 0.76 | mg/L | D | RVF | 274605 | 2014-05-15 |
| Iron, Total | 19.1 | mg/L | D | RVF | 274605 | 2014-05-15 |
| Zinc, Total | 0.31 | mg/L | D | RVF | 274605 | 2014-05-15 |

Volatiles

EPA 8260C

| | | | | | | |
|---------------------------|--------|------|---|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 10.0 | ug/L | D | RRS | 274603-274604 | 2014-05-11 |
| Methylene chloride | < 10.0 | ug/L | D | RRS | 274603-274604 | 2014-05-11 |
| trans-1,2-Dichloroethene | < 10.0 | ug/L | D | RRS | 274603-274604 | 2014-05-11 |
| Chloroform | < 10.0 | ug/L | D | RRS | 274603-274604 | 2014-05-11 |
| 1,2-Dichloroethane | < 10.0 | ug/L | D | RRS | 274603-274604 | 2014-05-11 |
| Trichloroethene | < 10.0 | ug/L | D | RRS | 274603-274604 | 2014-05-11 |
| Toluene | < 10.0 | ug/L | D | RRS | 274603-274604 | 2014-05-11 |
| Tetrachloroethene | < 10.0 | ug/L | D | RRS | 274603-274604 | 2014-05-11 |
| 1,1,2,2-Tetrachloroethane | < 10.0 | ug/L | D | RRS | 274603-274604 | 2014-05-11 |

Sample Results

Report ID NY405019.0.39067

Sample ID

Client VandeMark Chemical, Inc.

Method

| Analyte | Results | Units | Qualifiers | Analyst | Vessel ID | Date |
|---------|---------|-------|------------|---------|-----------|------|
|---------|---------|-------|------------|---------|-----------|------|

019-0505-2 VDM-11 - Ground Water Sampled 5/5/2014**Volatiles**

EPA 8260C

WetChem

SM 4500-Cl-B-97,11

| | | | | | | |
|------------|-----|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 410 | mg/L | D2 | ME | 274606 | 2014-05-20 |

019-0505-3 VDM-14 - Ground Water Sampled 5/5/2014**Metals**

EPA 200.7 Rev 4.4

| | | | | | | |
|-----------------|------|------|----|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | 0.10 | mg/L | D | RVF | 274609 | 2014-05-15 |
| Copper, Total | 0.11 | mg/L | D | RVF | 274609 | 2014-05-15 |
| Iron, Total | 241 | mg/L | D1 | RVF | 274609 | 2014-05-15 |
| Zinc, Total | 0.69 | mg/L | D | RVF | 274609 | 2014-05-15 |

Volatiles

EPA 8260C

| | | | | | | |
|---------------------------|--------|------|---|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | 19.3 | ug/L | D | RRS | 274607-274608 | 2014-05-11 |
| Methylene chloride | < 10.0 | ug/L | D | RRS | 274607-274608 | 2014-05-11 |
| trans-1,2-Dichloroethene | 479 | ug/L | D | RRS | 274607-274608 | 2014-05-11 |
| Chloroform | 30.5 | ug/L | D | RRS | 274607-274608 | 2014-05-11 |
| 1,2-Dichloroethane | < 10.0 | ug/L | D | RRS | 274607-274608 | 2014-05-11 |
| Trichloroethene | 45.1 | ug/L | D | RRS | 274607-274608 | 2014-05-11 |
| Toluene | < 10.0 | ug/L | D | RRS | 274607-274608 | 2014-05-11 |
| Tetrachloroethene | 212 | ug/L | D | RRS | 274607-274608 | 2014-05-11 |
| 1,1,2,2-Tetrachloroethane | 57.6 | ug/L | D | RRS | 274607-274608 | 2014-05-11 |

WetChem

SM 4500-Cl-B-97,11

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 3200 | mg/L | D2 | ME | 274610 | 2014-05-20 |

019-0505-4 Eighteen Mile Creek - Ground Water Sampled 5/5/2014**Metals**

EPA 200.7 Rev 4.4

| | | | | | | |
|-----------------|--------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | < 0.01 | mg/L | | RVF | 274613 | 2014-05-15 |
| Copper, Total | < 0.01 | mg/L | | RVF | 274613 | 2014-05-15 |
| Iron, Total | 0.832 | mg/L | | RVF | 274613 | 2014-05-15 |
| Zinc, Total | < 01 | mg/L | | RVF | 274613 | 2014-05-15 |

Sample Results

Report ID NY405019.0.39067

Sample ID

Client VandeMark Chemical, Inc.

Method

| Analyte | Results | Units | Qualifiers | Analyst | Vessel ID | Date |
|---------|---------|-------|------------|---------|-----------|------|
|---------|---------|-------|------------|---------|-----------|------|

019-0505-4 Eighteen Mile Creek - Ground Water Sampled 5/5/2014**Volatiles**

EPA 8260C

| | | | | | | |
|---------------------------|--------|------|---|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 10.0 | ug/L | D | RRS | 274611-274612 | 2014-05-11 |
| Methylene chloride | < 10.0 | ug/L | D | RRS | 274611-274612 | 2014-05-11 |
| trans-1,2-Dichloroethene | < 10.0 | ug/L | D | RRS | 274611-274612 | 2014-05-11 |
| Chloroform | < 10.0 | ug/L | D | RRS | 274611-274612 | 2014-05-11 |
| 1,2-Dichloroethane | < 10.0 | ug/L | D | RRS | 274611-274612 | 2014-05-11 |
| Trichloroethene | < 10.0 | ug/L | D | RRS | 274611-274612 | 2014-05-11 |
| Toluene | < 10.0 | ug/L | D | RRS | 274611-274612 | 2014-05-11 |
| Tetrachloroethene | < 10.0 | ug/L | D | RRS | 274611-274612 | 2014-05-11 |
| 1,1,2,2-Tetrachloroethane | < 10.0 | ug/L | D | RRS | 274611-274612 | 2014-05-11 |

WetChem

SM 4500-Cl-B-97,11

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 50.0 | mg/L | D2 | ME | 274614 | 2014-05-20 |

019-0505-5 D-55 - Ground Water Sampled 5/5/2014**Metals**

EPA 200.7 Rev 4.4

| | | | | | | |
|-----------------|-------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | 0.015 | mg/L | | RVF | 274617 | 2014-05-15 |
| Copper, Total | 0.030 | mg/L | | RVF | 274617 | 2014-05-15 |
| Iron, Total | 5.34 | mg/L | | RVF | 274617 | 2014-05-15 |
| Zinc, Total | 0.904 | mg/L | | RVF | 274617 | 2014-05-15 |

Volatiles

EPA 8260C

| | | | | | | |
|---------------------------|--------|------|---|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 10.0 | ug/L | D | RRS | 274615-274616 | 2014-05-11 |
| Methylene chloride | < 10.0 | ug/L | D | RRS | 274615-274616 | 2014-05-11 |
| trans-1,2-Dichloroethene | < 10.0 | ug/L | D | RRS | 274615-274616 | 2014-05-11 |
| Chloroform | < 10.0 | ug/L | D | RRS | 274615-274616 | 2014-05-11 |
| 1,2-Dichloroethane | < 10.0 | ug/L | D | RRS | 274615-274616 | 2014-05-11 |
| Trichloroethene | < 10.0 | ug/L | D | RRS | 274615-274616 | 2014-05-11 |
| Toluene | < 10.0 | ug/L | D | RRS | 274615-274616 | 2014-05-11 |
| Tetrachloroethene | < 10.0 | ug/L | D | RRS | 274615-274616 | 2014-05-11 |
| 1,1,2,2-Tetrachloroethane | < 10.0 | ug/L | D | RRS | 274615-274616 | 2014-05-11 |

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| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 14.0 | mg/L | D2 | ME | 274618 | 2014-05-20 |

019-0505-6 Trip Blank - Ground Water Sampled 5/5/2014

Sample Results

Report ID NY405019.0.39067

Sample ID

Client VandeMark Chemical, Inc.

Method

| Analyte | Results | Units | Qualifiers | Analyst | Vessel ID | Date |
|---------|---------|-------|------------|---------|-----------|------|
|---------|---------|-------|------------|---------|-----------|------|

019-0505-6 Trip Blank - Ground Water Sampled 5/5/2014**Volatiles**

EPA 8260C

| | | | | | | |
|---------------------------|-------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 2.0 | ug/L | | RRS | 274619 | 2014-05-11 |
| Methylene chloride | < 2.0 | ug/L | | RRS | 274619 | 2014-05-11 |
| trans-1,2-Dichloroethene | < 2.0 | ug/L | | RRS | 274619 | 2014-05-11 |
| Chloroform | < 2.0 | ug/L | | RRS | 274619 | 2014-05-11 |
| 1,2-Dichloroethane | < 2.0 | ug/L | | RRS | 274619 | 2014-05-11 |
| Trichloroethene | < 2.0 | ug/L | | RRS | 274619 | 2014-05-11 |
| Toluene | < 2.0 | ug/L | | RRS | 274619 | 2014-05-11 |
| Tetrachloroethene | < 2.0 | ug/L | | RRS | 274619 | 2014-05-11 |
| 1,1,2,2-Tetrachloroethane | < 2.0 | ug/L | | RRS | 274619 | 2014-05-11 |

019-0505-7 Field QA/QC Dup of 55 - Ground Water Sampled 5/5/2014**Metals**

EPA 200.7 Rev 4.4

| | | | | | | |
|-----------------|-------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | 0.030 | mg/L | | RVF | 274622 | 2014-05-15 |
| Copper, Total | 0.032 | mg/L | | RVF | 274622 | 2014-05-15 |
| Iron, Total | 6.69 | mg/L | | RVF | 274622 | 2014-05-15 |
| Zinc, Total | 0.544 | mg/L | | RVF | 274622 | 2014-05-15 |

Volatiles

EPA 8260C

| | | | | | | |
|---------------------------|--------|------|---|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 10.0 | ug/L | D | RRS | 274620-274621 | 2014-05-11 |
| Methylene chloride | < 10.0 | ug/L | D | RRS | 274620-274621 | 2014-05-11 |
| trans-1,2-Dichloroethene | < 10.0 | ug/L | D | RRS | 274620-274621 | 2014-05-11 |
| Chloroform | < 10.0 | ug/L | D | RRS | 274620-274621 | 2014-05-11 |
| 1,2-Dichloroethane | < 10.0 | ug/L | D | RRS | 274620-274621 | 2014-05-11 |
| Trichloroethene | < 10.0 | ug/L | D | RRS | 274620-274621 | 2014-05-11 |
| Toluene | < 10.0 | ug/L | D | RRS | 274620-274621 | 2014-05-11 |
| Tetrachloroethene | < 10.0 | ug/L | D | RRS | 274620-274621 | 2014-05-11 |
| 1,1,2,2-Tetrachloroethane | < 10.0 | ug/L | D | RRS | 274620-274621 | 2014-05-11 |

WetChem

SM 4500-CI-B-97,11

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 15.0 | mg/L | D2 | ME | 274623 | 2014-05-20 |

Data Qualifiers and Definitions:

- D Sample initially diluted due to sample matrix.
- D1 Sample diluted due to initial result outside of linear calibrated range of the instrument.
- D2 Sample initially diluted based on historical data.

Sample Results

Report ID NY405019.0.39067

Sample ID

Client VandeMark Chemical, Inc.

Method

| Analyte | Results | Units | Qualifiers | Analyst | Vessel ID | Date |
|---------|---------|-------|------------|---------|-----------|------|
|---------|---------|-------|------------|---------|-----------|------|

General Disclaimer

- The test results are submitted pursuant to IsleChem LLC's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- This report is issued for the benefit of and may be relied upon by the client named above. The client bears full responsibility for deciding the level of testing for sample submitted to IsleChem LLC.
- These results pertain only to the items tested.
- This report shall not be reproduced except in full.
- If the sample(s) represented by these test results were not collected by IsleChem LLC then the test results are limited to the reported values determine by the analytical testing process. IsleChem LLC makes no representation regarding the sample's collection technique, condition, volume, homogeneity or any other aspect of the sample(s) prior to IsleChem LLC taking possession of the sample(s) and the influence it may have on the results.
- Unless notified in writing to return the samples covered by this report IsleChem LLC will store what remains of the sample(s), if anything, for a period of thirty (30) days, sixty (60) days for asbestos samples, before discarding, unless otherwise required by law. A shipping and handling fee with be charged for the return of any sample(s).
- Certain analytes may not be covered by the NYS DOH or NELAP fields of accreditation. Results for those analytes are generated by the cited method using QA/QC guidelines from IsleChem's Quality Control Manual, where applicable.

The test results in this report meet all NELAP requirements for parameters that are within IsleChem's field of accreditation. Any exceptions to NELAP requirements are noted in the comments field.

All results for solid samples are reported on a dry weight basis unless otherwise noted.

Visit us on the web at www.islechem.com

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

Page 1 of 3

| | | | | | | | | | | | | | |
|---|--------|--|------|------|-------------------------------|-----------------|---|-------------------------|----------------------------|-------------------------|-----|----|----------|
| VandeMark Chemical, Inc. Organization Name | | Semi-Annual Groundwater Monitoring Project Name | | | | | 4 Samples / 16 Bottles # of Samples / # of Bottles | | | | | | |
| One North Transit Road Street Address | | Client PO / Release # 5/5/17 | | | | | Standard Turnaround Time/ Date Results Needed NY: 405019.0.39067 | | | | | | |
| Lockport, NY 14094 City, State, Zip | | Date Sampled | | | | | IsleChem Project # | | | | | | |
| Chris Banach Contact Person | | For electronic report please provide e-mail address: c.banach@vdmchemical.com | | | | | Rush Work Performed at Priority Rate (see below) | | | | | | |
| 716-433-6764 / 716-433-2850 Phone# / Fax# | | | | | | | | | | | | | |
| E-mail | | Matrix | Comp | Grab | Volatiles - Method 624 (2172) | Metals - (2620) | Chloride (622) | Field Parameters (2358) | Approved by Client | | Yes | No | Initials |
| Sample ID | | | | | | | | | Approved by Lab | | Yes | No | Initials |
| Sample Location | | | | | | | | | Bottle Type / Preservative | | | | |
| 274599 274600 | VDM-10 | GW | | x | x | | | | Field pH: <u>5.95</u> | (2) - 40 ml Vials (HCl) | | | |
| 274601 | | GW | | x | | x | | | Field Temp: <u>12.0°C</u> | 250 ml Poly (HNO3) | | | |
| 274602 | | GW | | x | | | x | | | 250 ml Poly (None) | | | |
| 274603 274604 | VDM-11 | GW | | x | x | | | | Field pH: <u>6.05</u> | (2) - 40 ml Vials (HCl) | | | |
| 274605 | | GW | | x | | x | | | Field Temp: <u>10.5°C</u> | 250 ml Poly (HNO3) | | | |
| 274606 | | GW | | x | | | x | | | 250 ml Poly (None) | | | |
| 274607 274608 | VDM-14 | GW | | x | x | | | | Field pH: <u>5.55</u> | (2) - 40 ml Vials (HCl) | | | |
| 274609 | | GW | | x | | x | | | Field Temp: <u>9.3°C</u> | 250 ml Poly (HNO3) | | | |
| 274610 | | GW | | x | | | x | | | 250 ml Poly (None) | | | |
| NO Sample | | VDM-12 | GW | x | x | | | | Field pH: <u>N/A</u> | (2) - 40 ml Vials (HCl) | | | |
| | | | GW | x | | x | | | Field Temp: <u>N/A</u> | 250 ml Poly (HNO3) | | | |
| | | | GW | x | | | x | | | 250 ml Poly (None) | | | |

Comments: Final report to be e-mailed to Chris Banach (e-mail above), b.law, b.balus, b.krencik, c.banach, c.lemke, d.bilicki, e.vogt, j.barnes, p.ameis (all @vdmchemical.com)

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride

Metals - Cr, Cu, Fe, & Zn.

| | | | | | | | | |
|-------------------------------------|---------------------|--------------------|------------------|-------|-------|-------------------------------------|---------------------|-------------------|
| Sampled By: <i>[Signature]</i> | Date: <u>5/5/14</u> | Time: <u>10:00</u> | Received by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: <i>[Signature]</i> | Date: <u>5/5/14</u> | Time: <u>1430</u> | Relinquished by: | Date: | Time: | Received by Job: <i>[Signature]</i> | Date: <u>5/5/14</u> | Time: <u>3:00</u> |

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 days.
By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS


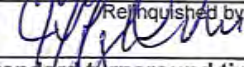

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

| | | | | | | | | | | | |
|---|---------------------|---|------|------|-------------------------------------|---|----------------|-------------------------------|--|--|----------------------------|
| VandeMark Chemical, Inc. Organization Name | | Semi-Annual Groundwater Monitoring Project Name | | | | 4 Samples / 13 Bottles # of Samples / # of Bottles | | | | | |
| One North Transit Road Street Address | | Client PO / Release # 5/5/14 | | | | Standard Turnaround Time/ Date Results Needed N.Y. 405-019.0.37067 | | | | | |
| Lockport, NY 14094 City, State, Zip | | Date Sampled | | | | IsleChem Project # | | | | | |
| Chris Banach Contact Person | | For electronic report please provide e-mail address: c.banach@vdmchemical.com E-mail | | | | Rush Work Performed at Priority Rate (see below) Approved by Client Yes No Initials Approved by Lab Yes No Initials | | | | | |
| 716-433-6764 / 716-433-2850 Phone# / Fax# | | | | | | | | | | | |
| Sample ID | Sample Location | Matrix | Comp | Grab | Volatiles - Method 624 (2172) | Metals - (2620) | Chloride (622) | Field Parameters (2358) | | | Bottle Type / Preservative |
| 274611 274612 | Eighteen Mile Creek | GW | | X | X | | | | | | Field pH: 8.2 |
| 274613 | | GW | | X | | X | | | | | Field Temp: 13°C |
| 274614 | | GW | | X | | | X | | | | |
| 274615 274616 | D-55 | GW | | X | X | | | | | | Field pH: 7.06 |
| 274617 | | GW | | X | | X | | | | | Field Temp: 11.7°C |
| 274618 | | GW | | X | | | X | | | | |
| NO Sample | VDM-9 | GW | | X | X | | | | | | Field pH: N/A |
| | | GW | | X | | X | | | | | Field Temp: N/A |
| | | GW | | X | | | X | | | | |
| 274619 | Trip Blank | GW | | X | X | | | | | | |
| | | GW | | X | | | | | | | |
| | | | | | | | | | | | |

Comments: Final report to be e-mailed to Chris Banach (e-mail above), b.law, b.balus, b.krencik, c.banach, c.lemke, d.bilicki, e.vogt, j.barnes, p.ameis (all @vdmchemical.com)

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride

Metals - Cr, Cu, Fe, & Zn.

| | | | | | | | | |
|--|--------|-------|------------------|------|------|---|--------|------|
| Sampled by: | Date | Time | Received by: | Date | Time | Received by: | Date | Time |
|  | 5/5/14 | 10:00 | | | | | | |
| Relinquished by: | Date | Time | Relinquished by: | Date | Time | Received by lab: | Date | Time |
|  | 5/5/14 | 14:30 | | | |  | 5/5/14 | 3:00 |

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 da
By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

| | | | | | | | | | | | | | | |
|---|------------------------------|---|------|------|-------------------------------------|-----------------|--|-------------------------------|--|--|--|--|--|--|
| VandeMark Chemical, Inc. Organization Name | | Semi-Annual Groundwater Monitoring Project Name | | | | | 1 Sample / 4 Bottles # of Samples / # of Bottles | | | | | | | |
| One North Transit Road Street Address | | Client PO / Release # <u>5/5/14</u> | | | | | Standard Turnaround Time/ Date Results Needed <u>NY. 40549.0. 3967</u> | | | | | | | |
| Lockport, NY 14094 City, State, Zip | | Date Sampled | | | | | IsleChem Project # | | | | | | | |
| Chris Banach Contact Person | | For electronic report please provide e-mail address: c.banach@vdmchemical.com | | | Volatiles - Method 624 (2172) | Metals - (2620) | Chloride (622) | Field Parameters (2358) | | | | Rush Work Performed at Priority Rate (see below) | | |
| 716-433-6764 / 716-433-2850 Phone# / Fax# | | E-mail | | | | | | | | | | Approved by Client Yes No Initials | | |
| Sample ID | Sample Location | Matrix | Comp | Grab | | | | | | | | Bottle Type / Preservative | | |
| <u>274620</u> <u>274621</u> | Field QA/QC Dup of <u>55</u> | GW | | X | X | | | | | | | Field pH: <u>7.06</u> | | |
| <u>274622</u> | | GW | | X | | X | | | | | | Field Temp: <u>11.7°C</u> | | |
| <u>274623</u> | | GW | | X | | | X | | | | | 250 ml Poly (HNO3) | | |
| | | | | | | | | | | | | 250 ml Poly (None) | | |

Comments: Final report to be e-mailed to Chris Banach (e-mail above), b.law, b.balus, b.krencik, c.banach, c.lemke, d.bilicki, e.vogt, j.barnes, p.ameis (all @vdmchemical.com)

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride

Metals - Cr, Cu, Fe, & Zn.

| | | | | | | | | |
|-------------------------------------|---------------------|--------------------|------------------|-------|-------|-------------------------------------|---------------------|-------------------|
| Sampled By: <u>[Signature]</u> | Date: <u>5/5/14</u> | Time: <u>10:00</u> | Received by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: <u>[Signature]</u> | Date: <u>5/5/14</u> | Time: <u>1430</u> | Relinquished by: | Date: | Time: | Received by lab: <u>[Signature]</u> | Date: <u>5/5/14</u> | Time: <u>3:00</u> |

Standard turnaround time is 10 days.
 RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 days.
 By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.



Client Name: VandeMark

IsleChem, LLC Job Number: N.Y. 405019

Sample(s) received by: [Signature] Date: 5/5/14 Time: 3:00

Is the chain of custody identified clearly with complete documentation including:

| | | | | |
|--|------------|----|-----|-----------|
| Sample location/Identification | <u>YES</u> | NO | N/A | Corrected |
| Sample date | <u>YES</u> | NO | N/A | Corrected |
| Sample time | <u>YES</u> | NO | N/A | Corrected |
| Client name | <u>YES</u> | NO | N/A | Corrected |
| Preservation type | <u>YES</u> | NO | N/A | Corrected |
| Required analysis is listed on each bottle | <u>YES</u> | NO | N/A | Corrected |

Are the sample labels clear and do they provide a unique identification of the sample linked to COC? YES NO N/A Corrected

Are the sample containers appropriate? YES NO N/A Corrected

Is the sample date within the required hold times? YES NO N/A Corrected

Is there adequate volume available for requested analysis? YES NO N/A Corrected

Did the customer list what sample analysis is required? YES NO N/A Corrected

Is a chain of custody included? YES NO N/A Corrected

Is the chain of custody complete? YES NO N/A Corrected

Are the sample(s) free of apparent damage? YES NO N/A Corrected

Temperature 6°C Has cooling begun? YES NO N/A -

Is temperature 6° C or less if sample(s) were held prior to delivery date? YES NO N/A -

Are samples appropriately preserved if necessary? YES NO N/A Corrected

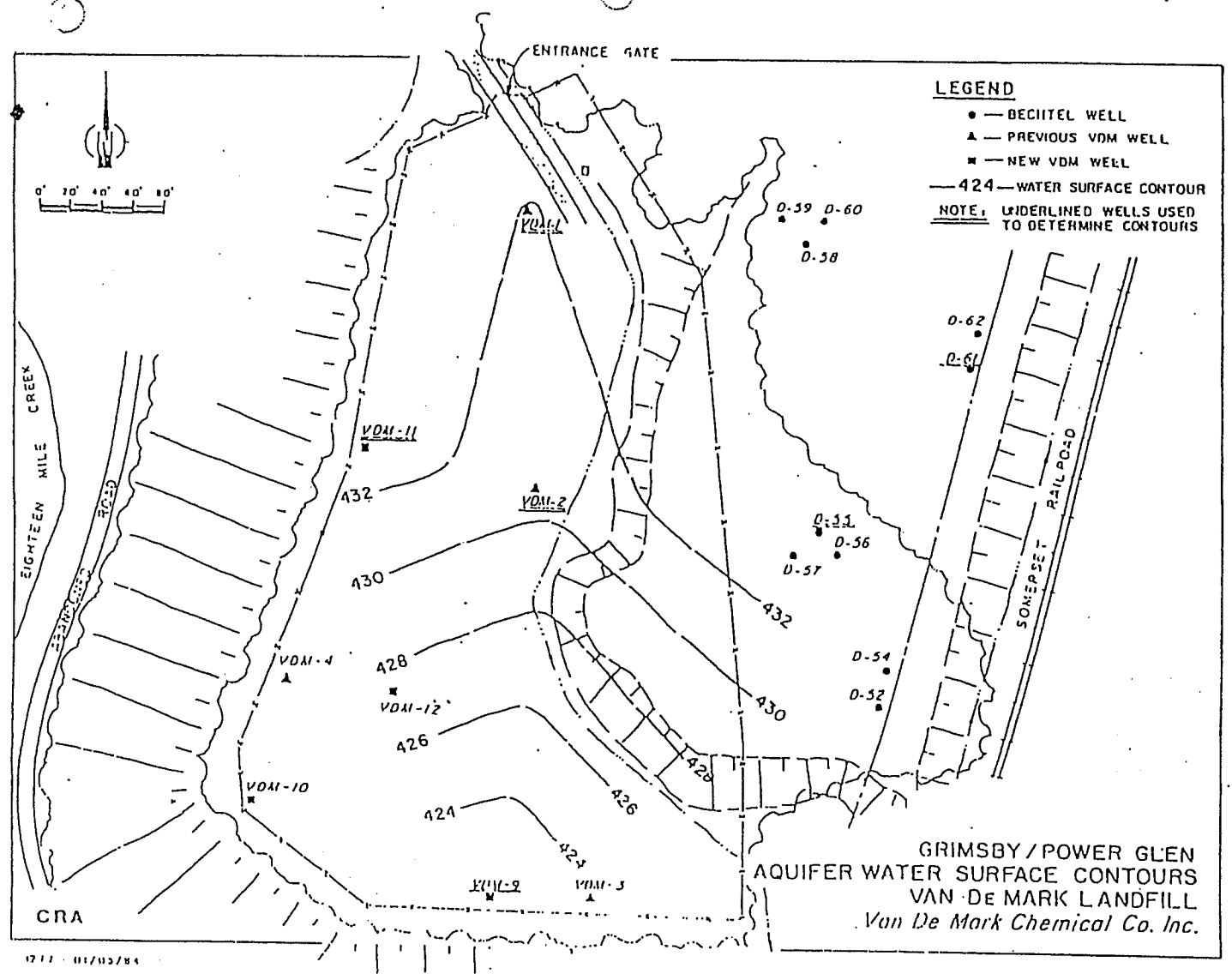
VOA sample vials do not have headspace or visible "pea-sized" air bubbles > (1/4") in diameter. YES NO N/A Corrected

If necessary, lab management has been notified of any short hold or quick TAT samples. YES NO N/A -

If necessary, lab has been notified of any attached comments. YES NO N/A -

Comments/Actions: _____

WELL LOCATION MAP
Figure 1



Attachment II-B
Well Purging / Sampling Data

WELL D-55:

WELL PURGING DATA:

START TIME: 8⁵⁰ FINISH TIME: 9¹⁰ DATE: 5/5/14
A: MP ELEVATION 469.45 FEET
B: DEPTH TO WATER: 36.2 FEET
C: DEPTH OF WELL INSTALLED: 422.40
D: STATIC WATER LEVEL: C - D = 11.1 FEET
E: WELL VOLUME: $E * 0.1636 =$ 1.81 GALLONS
F: DEPTH OF WELL AS MEASURED: 47.3 FEET

WELL SAMPLING DATA:

DATE: 5/5/14

START TIME: 11⁵⁰ FINISH TIME: 12²⁰

A: MP ELEVATION 469.45 FEET
B: DEPTH TO WATER: 43.4 FEET
C: DEPTH OF WELL INSTALLED: 422.40
D: STATIC WATER LEVEL: C - D = 3.9 FEET
E: WELL VOLUME: $E * 0.1636 =$ 0.64 GALLONS
F: DEPTH OF WELL AS MEASURED: 47.3 FEET
G: pH OF SAMPLE: 7.06 pH 11.7 °C
H: pH METER CALIBRATED? YES NO
I: SAMPLES OBTAINED:

I - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: sunny / clear

K: SAMPLER(S): Velarde, Walton

L: COMMENTS: took duplicate samples here

Well Purging / Sampling Data

WELL VDM-9:

WELL PURGING DATA:

START TIME: 930 FINISH TIME: 940

DATE: 5/5/14

A: MP ELEVATION 447.37 FEET
B: DEPTH TO WATER: 21.0 FEET *obstructed*
C: DEPTH OF WELL INSTALLED: 416.40
D: STATIC WATER LEVEL: C - D = 8.8 FEET
E: WELL VOLUME: $E * 0.1636 =$ 1.43 GALLONS
F: DEPTH OF WELL AS MEASURED: 29.8 FEET

WELL SAMPLING DATA:

DATE: _____

START TIME: 1225 FINISH TIME: _____

A: MP ELEVATION 447.37 FEET
B: DEPTH TO WATER: _____ FEET
C: DEPTH OF WELL INSTALLED: 416.40
D: STATIC WATER LEVEL: C - D = _____ FEET
E: WELL VOLUME: $E * 0.1636 =$ _____ GALLONS
F: DEPTH OF WELL AS MEASURED: _____ FEET
G: pH OF SAMPLE: _____ pH
H: pH METER CALIBRATED? YES NO

N/A *bailey won't fit*

I: ~~SAMPLES OBTAINED:~~
~~1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's~~ *N/A*

J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-10

WELL PURGING DATA:

DATE: 5/5/14

START TIME: 9:45 FINISH TIME: 10:00

- A: MP ELEVATION 444.89 FEET
- B: DEPTH TO WATER: 31.7 FEET
- C: DEPTH OF WELL INSTALLED: 398.70
- D: STATIC WATER LEVEL: C - D = 15.3 FEET
- E: WELL VOLUME: $E * 0.1636 =$ 2.50 GALLONS
- F: DEPTH OF WELL AS MEASURED: 47.0 FEET

WELL SAMPLING DATA:

DATE: 5/5/14

START TIME: 12:30 FINISH TIME: 12:50

- A: MP ELEVATION 444.89 FEET
- B: DEPTH TO WATER: 32.0 FEET
- C: DEPTH OF WELL INSTALLED: 398.70
- D: STATIC WATER LEVEL: C - D = 15 FEET
- E: WELL VOLUME: $E * 0.1636 =$ 2.45 GALLONS
- F: DEPTH OF WELL AS MEASURED: 47.0 FEET
- G: pH OF SAMPLE: 5.95 pH 12.0 °C
- H: pH METER CALIBRATED? YES NO
- I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: clear sunny

K: SAMPLER(S): Velarde, Walton

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-11

WELL PURGING DATA:

DATE: 5/5/14

START TIME: 10⁰⁰ FINISH TIME: 10¹⁰

- A: MP ELEVATION 450.74 FEET
B: DEPTH TO WATER: 19.0 FEET
C: DEPTH OF WELL INSTALLED: 427.70
D: STATIC WATER LEVEL: C - D = 4.4 FEET
E: WELL VOLUME: $E * 0.1636 =$ 0.72 GALLONS
F: DEPTH OF WELL AS MEASURED: 23.4 FEET

WELL SAMPLING DATA:

DATE: 5/5/14

START TIME: 1⁰⁰ FINISH TIME: 1²⁰

- A: MP ELEVATION 450.74 FEET
B: DEPTH TO WATER: 20.1 FEET
C: DEPTH OF WELL INSTALLED: 427.70
D: STATIC WATER LEVEL: C - D = 3.3 FEET
E: WELL VOLUME: $E * 0.1636 =$ 0.54 GALLONS
F: DEPTH OF WELL AS MEASURED: 23.4 FEET
G: pH OF SAMPLE: 6.05 pH 10.5°C
H: pH METER CALIBRATED? YES NO
I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: clear sunny

K: SAMPLER(S): Jeff Velarde Justin Walton

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-12

WELL PURGING DATA:

DATE: 5/5/14

START TIME: 10¹⁰ FINISH TIME: _____

- A: MP ELEVATION 451.52 FEET
- B: DEPTH TO WATER: _____ FEET
- C: DEPTH OF WELL INSTALLED: 436.10
- D: STATIC WATER LEVEL: C - D = _____ FEET
- E: WELL VOLUME: $E * 0.1636 =$ _____ GALLONS
- F: DEPTH OF WELL AS MEASURED: _____ FEET

WELL SAMPLING DATA:

DATE: _____

START TIME: _____ FINISH TIME: _____

- A: MP ELEVATION 451.52 FEET
- B: DEPTH TO WATER: _____ FEET
- C: DEPTH OF WELL INSTALLED: 436.10
- D: STATIC WATER LEVEL: C - D = _____ FEET
- E: WELL VOLUME: $E * 0.1636 =$ _____ GALLONS
- F: DEPTH OF WELL AS MEASURED: _____ FEET
- G: pH OF SAMPLE: _____ pH
- H: pH METER CALIBRATED? YES N N/A
- I: SAMPLES OBTAINED:
~~1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's~~ N/A
- J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: DRY

Well Purging / Sampling Data

WELL VDM-14

WELL PURGING DATA:

DATE: 5/5/14

START TIME: 9¹⁵ FINISH TIME: 9³⁰

- A: MP ELEVATION 446.31 FEET
- B: DEPTH TO WATER: 9.9 FEET
- C: DEPTH OF WELL INSTALLED: 434.00
- D: STATIC WATER LEVEL: C - D = 1.9 FEET
- E: WELL VOLUME: $E * 0.1636 =$ 0.31 GALLONS
- F: DEPTH OF WELL AS MEASURED: 11.8 FEET

WELL SAMPLING DATA:

DATE: 5/5/14

START TIME: 12⁰⁰ FINISH TIME: 12³⁰

- A: MP ELEVATION 446.31 FEET
- B: DEPTH TO WATER: 10.4 FEET
- C: DEPTH OF WELL INSTALLED: 434.00
- D: STATIC WATER LEVEL: C - D = 1.4 FEET
- E: WELL VOLUME: $E * 0.1636 =$ 0.23 GALLONS
- F: DEPTH OF WELL AS MEASURED: 11.8 FEET
- G: pH OF SAMPLE: 5.55 pH , 9.3°C
- H: pH METER CALIBRATED? YES NO
- I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: sunny / clear

K: SAMPLER(S): Jeff Velarde Justin Walton

L: COMMENTS: _____

Attachment II-C

Groundwater Monitoring System Inspection Plan and Form

- A. Inspections of the groundwater monitoring system shall be performed on a semi-annual basis to conform with the post-closure monitoring schedule. Personnel trained in groundwater sampling, collection and sample preservation techniques will be used. The inspection form located below or an equivalent form shall be used. The original inspection forms shall be maintained by the permittee in an inspection log book or file for the full term of the post-closure care period. Copies of the inspections shall be submitted with the semi-annual monitoring reports.

- B. The well inspection will include visual inspection of the security cap and lock, condition of the surface grout, and the condition of the inner casing and cap. During well purging, the relative rate of recharge should be noted for comparison with the previous data to insure that the well screen is not plugged. Also during purging and sampling, the integrity of the well shall be inspected by measuring the total well depth and noting the presence of any obstructions such as casing bends, foreign objects or siltation. The measured well depth shall be compared to the "as built" well depth.

- C. If it becomes apparent that a well is not capable of providing representative samples, the permittee shall respond in accordance with Condition E.1 of this permit Module.

Landfill/Groundwater Monitoring System Inspection Form

- | | | | |
|----|--|--------------------------------------|-------------------------------------|
| 1. | Is the integrity of the cover and ditch lining satisfactory? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| | 1.1 Any sink holes or depressions | YES | <input checked="" type="radio"/> NO |
| | 1.2 Significant erosion of the banks. | YES | <input checked="" type="radio"/> NO |
| | 1.3 Any visible problems. | YES | <input checked="" type="radio"/> NO |
| 2. | Is the integrity of the vegetative cover satisfactory? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| | 2.1 Is the grass healthy looking? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| | 2.2 Are there any bare spots? | YES | <input checked="" type="radio"/> NO |
| | 2.3 Is the grass less than 8" tall? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| | 2.4 Are there trees or bushes growing in the cover? | YES | <input checked="" type="radio"/> NO |
| 3. | Is drainage from the site satisfactory? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| | 3.1 Is there any ponding or puddling? | YES | <input checked="" type="radio"/> NO |
| 4. | Is the fence surrounding the site secure? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |

Hole in fence just inside main gate to the right

- 4.1 Any holes or damage? YES NO
- 4.2 Signs in place every 50'? YES NO
- 4.3 Accessible entry to the site? YES NO
- 4.4 Property "Posted Signs" visible and in tact? YES NO
- 5. Are all of the covers on the monitoring wells locked? YES NO
- 5.1 Caps on all of the risers? YES NO
- 6. Is there any iron staining in the drainage ditch? YES NO
- 7. Are there any visible seeps in the cliff face? YES NO
- 8. Are the wells in good condition? YES NO
- 8.1 Any damage to the outer casing? YES NO
- 8.2 Obstructions in the riser? YES NO
- 8.3 Excessive sediment buildup in any wells? YES NO

along right side perimeter

showing signs of rust/wear

have on D-55

#9 has obstruction
#12 dry/residue on top

Name of inspector: Jeff Velarde

Signature: Jeff Velarde Date: 5/5/14

Attachment II-D

Laboratory QA/QC Deliverables

COMPONENTS REQUIRED FOR RCRA ANALYTICAL DATA SUBMITTED TO
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

A Report Narrative should accompany each submission, summarizing the contents, results and all relevant circumstances of the work.

- A. Parameter requested.
- B. Sample Number or Numbers, Matrix, and:
 - 1. date and time collected
 - 2. date extracted and/or digested
 - 3. date and time analyzed
 - 4. chain of custody report and/or form, including confirmation of unbroken chain of custody, intact sample packaging and container seals and adequate temperature and/or other preservation.
- C. Results ^{b,e,f}
 - 1. sample Results
 - 2. duplicate
 - 3. blank^a
 - 4. spike; spike duplicate
 - 5. surrogate recoveries, if applicable.
- D. Supporting QA/QC^b
 - 1. methodology
 - 2. method detection limits, instrument detection limits^e
 - 3. linear curves
 - 4. percent Solids
 - 5. calculations ^d
 - 6. cleanup procedures
 - 7. data validation procedures and completed data validation checklists.
 - 8. documentation which illustrates how blank water is determined to be analyte-free.

In addition to submitting the above, all sample data and its QA/QC data as specified in SW-846, 3rd edition, chapter 1, must be maintained accessible to NYSDEC either in hard copy or on magnetic

tape or disk (computer data files). The data, if requested by NYSDEC, should be formatted as described in SW-846, 3rd edition, chapter 1. This requirement may be changed in the future to mandate computer data files, accessible to NYSDEC on request.

This does not obviate the requirement to do the QA/QC specified in each individual EPA-approved method.

- * Components for RCRA submissions for non-contract Lab Protocols. If CLP, then CLP deliverables are required, unless otherwise stated in the approved plan.
- a The data should include all blanks (trip, equipment rinse, method and instrument blanks) as specified in the sampling and analysis plan, guidance and regulation.
- b Supporting QA/QC should be specific to the RCRA samples analyzed.
- c Every effort practicable must be made to achieve optimal detection limits below regulatory limits and comparable to the Practical Quantification Limits specified in the EPA-approved methods.
- d Alternatively, include QA/QC summaries validating the data, including calibration control charts, correlation coefficients, etc., are submitted. The Report Narrative should describe the data validation and explain discrepancies. The supporting data should be provided to NYSDEC upon request.
- e Frequencies of blanks, duplicates, spikes, surrogates, calibrations, standard reference materials, etc., should be as stated in the approved sampling and analysis plan, the approved analytical methods and the SW-846 3rd edition, Chapter 1, requirement. If there are any perceived conflicts, these should be resolved with NYSDEC in advance of sampling.
- f Spiking for metals, organics or other parameters must be done before sampling preparation (*i.e.* before digestions, extractions etc.) unless otherwise stated in the approved plan. Furnace analysis for metals will still require post-digestion spikes on all samples analyzed by this technique.



2801 Long Road
Grand Island, NY 14072
(716) 773-8401
(800) 699-8606
(716) 773-8517 (fax)
www.islechem.com

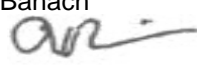
Analysis Report

Client VandeMark Chemical, Inc. Project Water Samples For Analysis
Monitoring
One North Transit Road Semi-Annual Groundwater
Lockport, NY 14094-2399

Report Date 10/20/2014
Status Final
ID **NY410022.0.40784**

Batch Sample 10/6/2014
Date
Time 13:30
Description --
Received 10/6/2014
Time: 15:30

Batch Contact Chris Banach

Authorized Signature 

Richard V. Finn, Manager of Chemical Testing

The following result table is for 8 samples received by IsleChem LLC on 10/6/2014 sampled by Ken Shephard on 10/6/2014 and submitted by Ken Shephard

Also enclosed are the Chain of Custody and Sample Receipt check list for this project.

Narrative:

Analyses were performed within the required holding times unless otherwise noted below. All quality control results were within acceptable limits unless specifically noted in the report. Quality control analyses were performed on the samples in this report or samples of similar matrix that were analyzed in the analytical batch on the dates indicated in the report.

Notes:

Sample Results

Report ID NY410022.0.40784

Sample ID

Client VandeMark Chemical, Inc.

Analytical Method / Prep Method

| Analyte | Results | Units | Qualifiers | Analyst | Vessel ID | Date |
|---------|---------|-------|------------|---------|-----------|------|
|---------|---------|-------|------------|---------|-----------|------|

022-1006-1 VDM-10 - Ground Water Sampled 10/6/2014**Metals**

EPA 200.7 Rev 4.4 / EPA 4.1.3

| | | | | | | |
|-----------------|-------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | 0.015 | mg/L | | RVF | 284910 | 2014-10-16 |
| Copper, Total | 0.231 | mg/L | | RVF | 284910 | 2014-10-16 |
| Iron, Total | 17.8 | mg/L | | RVF | 284910 | 2014-10-16 |
| Zinc, Total | 0.921 | mg/L | | RVF | 284910 | 2014-10-16 |

Volatiles

EPA 8260C / EPA 5030C

| | | | | | | |
|---------------------------|-------|------|--|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 2.0 | ug/L | | RRS | 284908-284909 | 2014-10-08 |
| Methylene chloride | < 2.0 | ug/L | | RRS | 284908-284909 | 2014-10-08 |
| trans-1,2-Dichloroethene | < 2.0 | ug/L | | RRS | 284908-284909 | 2014-10-08 |
| Chloroform | 2.3 | ug/L | | RRS | 284908-284909 | 2014-10-08 |
| 1,2-Dichloroethane | < 2.0 | ug/L | | RRS | 284908-284909 | 2014-10-08 |
| Trichloroethene | < 2.0 | ug/L | | RRS | 284908-284909 | 2014-10-08 |
| Toluene | < 2.0 | ug/L | | RRS | 284908-284909 | 2014-10-08 |
| Tetrachloroethene | < 2.0 | ug/L | | RRS | 284908-284909 | 2014-10-08 |
| 1,1,2,2-Tetrachloroethane | < 2.0 | ug/L | | RRS | 284908-284909 | 2014-10-08 |

WetChem

SM 4500-CI-B-97,11 / NA

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 9000 | mg/L | D2 | ME | 284911 | 2014-10-14 |

022-1006-2 VDM-11 - Ground Water Sampled 10/6/2014**Metals**

EPA 200.7 Rev 4.4 / EPA 4.1.3

| | | | | | | |
|-----------------|-------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | 0.020 | mg/L | | RVF | 284914 | 2014-10-16 |
| Copper, Total | 0.500 | mg/L | | RVF | 284914 | 2014-10-16 |
| Iron, Total | 12.4 | mg/L | | RVF | 284914 | 2014-10-16 |
| Zinc, Total | 0.132 | mg/L | | RVF | 284914 | 2014-10-16 |

Volatiles

EPA 8260C / EPA 5030C

| | | | | | | |
|---------------------------|-------|------|--|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 2.0 | ug/L | | RRS | 284912-284913 | 2014-10-08 |
| Methylene chloride | < 2.0 | ug/L | | RRS | 284912-284913 | 2014-10-08 |
| trans-1,2-Dichloroethene | < 2.0 | ug/L | | RRS | 284912-284913 | 2014-10-08 |
| Chloroform | 2.9 | ug/L | | RRS | 284912-284913 | 2014-10-08 |
| 1,2-Dichloroethane | < 2.0 | ug/L | | RRS | 284912-284913 | 2014-10-08 |
| Trichloroethene | < 2.0 | ug/L | | RRS | 284912-284913 | 2014-10-08 |
| Toluene | < 2.0 | ug/L | | RRS | 284912-284913 | 2014-10-08 |
| Tetrachloroethene | 6.5 | ug/L | | RRS | 284912-284913 | 2014-10-08 |
| 1,1,2,2-Tetrachloroethane | < 2.0 | ug/L | | RRS | 284912-284913 | 2014-10-08 |

Sample Results

Report ID NY410022.0.40784

Sample ID

Client VandeMark Chemical, Inc.

Analytical Method / Prep Method

| Analyte | Results | Units | Qualifiers | Analyst | Vessel ID | Date |
|---------|---------|-------|------------|---------|-----------|------|
|---------|---------|-------|------------|---------|-----------|------|

022-1006-2 VDM-11 - Ground Water Sampled 10/6/2014**Volatiles**

EPA 8260C / EPA 5030C

WetChem

SM 4500-CI-B-97,11 / NA

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 1030 | mg/L | D2 | ME | 284915 | 2014-10-14 |

022-1006-3 VDM-14 - Ground Water Sampled 10/6/2014**Metals**

EPA 200.7 Rev 4.4 / EPA 4.1.3

| | | | | | | |
|-----------------|-------|------|----|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | < 0.5 | mg/L | D | RVF | 284918 | 2014-10-16 |
| Copper, Total | < 0.5 | mg/L | D | RVF | 284918 | 2014-10-16 |
| Iron, Total | 800 | mg/L | D1 | RVF | 284918 | 2014-10-16 |
| Zinc, Total | 2.05 | mg/L | D | RVF | 284918 | 2014-10-16 |

Volatiles

EPA 8260C / EPA 5030C

| | | | | | | |
|---------------------------|-------|------|----|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | 26.9 | ug/L | | RRS | 284916-284917 | 2014-10-08 |
| Methylene chloride | 9.7 | ug/L | | RRS | 284916-284917 | 2014-10-08 |
| trans-1,2-Dichloroethene | 895 | ug/L | D1 | RRS | 284916-284917 | 2014-10-08 |
| Chloroform | 51.9 | ug/L | | RRS | 284916-284917 | 2014-10-08 |
| 1,2-Dichloroethane | 12.6 | ug/L | | RRS | 284916-284917 | 2014-10-08 |
| Trichloroethene | 79.0 | ug/L | | RRS | 284916-284917 | 2014-10-08 |
| Toluene | < 2.0 | ug/L | | RRS | 284916-284917 | 2014-10-08 |
| Tetrachloroethene | 337 | ug/L | D1 | RRS | 284916-284917 | 2014-10-08 |
| 1,1,2,2-Tetrachloroethane | 96.2 | ug/L | D1 | RRS | 284916-284917 | 2014-10-08 |

WetChem

SM 4500-CI-B-97,11 / NA

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 6900 | mg/L | D2 | ME | 284919 | 2014-10-14 |

022-1006-4 Eighteen Mile Creek - Ground Water Sampled 10/6/2014**Metals**

EPA 200.7 Rev 4.4 / EPA 4.1.3

| | | | | | | |
|-----------------|--------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | < 0.01 | mg/L | | RVF | 284922 | 2014-10-16 |
| Copper, Total | 0.047 | mg/L | | RVF | 284922 | 2014-10-16 |
| Iron, Total | 0.432 | mg/L | | RVF | 284922 | 2014-10-16 |
| Zinc, Total | 0.032 | mg/L | | RVF | 284922 | 2014-10-16 |

Sample Results

Report ID NY410022.0.40784

Sample ID

Client VandeMark Chemical, Inc.

Analytical Method / Prep Method

| Analyte | Results | Units | Qualifiers | Analyst | Vessel ID | Date |
|---|---------|-------|------------|---------|---------------|------------|
| 022-1006-4 Eighteen Mile Creek - Ground Water Sampled 10/6/2014 | | | | | | |
| Volatiles | | | | | | |
| EPA 8260C / EPA 5030C | | | | | | |
| Field Grab | | | | | | |
| Vinyl chloride | < 2.0 | ug/L | | RRS | 284920-284921 | 2014-10-08 |
| Methylene chloride | < 2.0 | ug/L | | RRS | 284920-284921 | 2014-10-08 |
| trans-1,2-Dichloroethene | < 2.0 | ug/L | | RRS | 284920-284921 | 2014-10-08 |
| Chloroform | < 2.0 | ug/L | | RRS | 284920-284921 | 2014-10-08 |
| 1,2-Dichloroethane | < 2.0 | ug/L | | RRS | 284920-284921 | 2014-10-08 |
| Trichloroethene | < 2.0 | ug/L | | RRS | 284920-284921 | 2014-10-08 |
| Toluene | < 2.0 | ug/L | | RRS | 284920-284921 | 2014-10-08 |
| Tetrachloroethene | < 2.0 | ug/L | | RRS | 284920-284921 | 2014-10-08 |
| 1,1,2,2-Tetrachloroethane | < 2.0 | ug/L | | RRS | 284920-284921 | 2014-10-08 |

WetChem

SM 4500-CI-B-97,11 / NA

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 44.0 | mg/L | D2 | ME | 284923 | 2014-10-14 |

022-1006-5 D-55 - Ground Water Sampled 10/6/2014**Metals**

EPA 200.7 Rev 4.4 / EPA 4.1.3

| | | | | | | |
|-----------------|--------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | < 0.01 | mg/L | | RVF | 284926 | 2014-10-16 |
| Copper, Total | 0.014 | mg/L | | RVF | 284926 | 2014-10-16 |
| Iron, Total | 1.61 | mg/L | | RVF | 284926 | 2014-10-16 |
| Zinc, Total | 0.017 | mg/L | | RVF | 284926 | 2014-10-16 |

Volatiles

EPA 8260C / EPA 5030C

| | | | | | | |
|---------------------------|-------|------|--|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 2.0 | ug/L | | RRS | 284924-284925 | 2014-10-08 |
| Methylene chloride | < 2.0 | ug/L | | RRS | 284924-284925 | 2014-10-08 |
| trans-1,2-Dichloroethene | < 2.0 | ug/L | | RRS | 284924-284925 | 2014-10-08 |
| Chloroform | < 2.0 | ug/L | | RRS | 284924-284925 | 2014-10-08 |
| 1,2-Dichloroethane | < 2.0 | ug/L | | RRS | 284924-284925 | 2014-10-08 |
| Trichloroethene | < 2.0 | ug/L | | RRS | 284924-284925 | 2014-10-08 |
| Toluene | < 2.0 | ug/L | | RRS | 284924-284925 | 2014-10-08 |
| Tetrachloroethene | < 2.0 | ug/L | | RRS | 284924-284925 | 2014-10-08 |
| 1,1,2,2-Tetrachloroethane | < 2.0 | ug/L | | RRS | 284924-284925 | 2014-10-08 |

WetChem

SM 4500-CI-B-97,11 / NA

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 21.0 | mg/L | D2 | ME | 284927 | 2014-10-14 |

022-1006-6 VDM-9 - Ground Water Sampled 10/6/2014

Sample Results

Report ID NY410022.0.40784

Sample ID

Client VandeMark Chemical, Inc.

Analytical Method / Prep Method

| Analyte | Results | Units | Qualifiers | Analyst | Vessel ID | Date |
|---------|---------|-------|------------|---------|-----------|------|
|---------|---------|-------|------------|---------|-----------|------|

022-1006-6 VDM-9 - Ground Water Sampled 10/6/2014**Metals**

EPA 200.7 Rev 4.4 / EPA 4.1.3

| | | | | | | |
|-----------------|-------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | 0.022 | mg/L | | RVF | 284930 | 2014-10-16 |
| Copper, Total | 0.474 | mg/L | | RVF | 284930 | 2014-10-16 |
| Iron, Total | 12.6 | mg/L | | RVF | 284930 | 2014-10-16 |
| Zinc, Total | 0.103 | mg/L | | RVF | 284930 | 2014-10-16 |

Volatiles

EPA 8260C / EPA 5030C

| | | | | | | |
|---------------------------|-------|------|--|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 2.0 | ug/L | | RRS | 284928-284929 | 2014-10-08 |
| Methylene chloride | < 2.0 | ug/L | | RRS | 284928-284929 | 2014-10-08 |
| trans-1,2-Dichloroethene | 5.5 | ug/L | | RRS | 284928-284929 | 2014-10-08 |
| Chloroform | < 2.0 | ug/L | | RRS | 284928-284929 | 2014-10-08 |
| 1,2-Dichloroethane | < 2.0 | ug/L | | RRS | 284928-284929 | 2014-10-08 |
| Trichloroethene | < 2.0 | ug/L | | RRS | 284928-284929 | 2014-10-08 |
| Toluene | < 2.0 | ug/L | | RRS | 284928-284929 | 2014-10-08 |
| Tetrachloroethene | 9.6 | ug/L | | RRS | 284928-284929 | 2014-10-08 |
| 1,1,2,2-Tetrachloroethane | < 2.0 | ug/L | | RRS | 284928-284929 | 2014-10-08 |

WetChem

SM 4500-CI-B-97,11 / NA

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 9300 | mg/L | D2 | ME | 284931 | 2014-10-14 |

022-1006-7 Field QA/QC Dup of 55 - Ground Water Sampled 10/6/2014**Metals**

EPA 200.7 Rev 4.4 / EPA 4.1.3

| | | | | | | |
|-----------------|--------|------|--|-----|--------|------------|
| Field Grab | | | | | | |
| Chromium, Total | < 0.01 | mg/L | | RVF | 284934 | 2014-10-16 |
| Copper, Total | 0.015 | mg/L | | RVF | 284934 | 2014-10-16 |
| Iron, Total | 1.63 | mg/L | | RVF | 284934 | 2014-10-16 |
| Zinc, Total | 0.021 | mg/L | | RVF | 284934 | 2014-10-16 |

Volatiles

EPA 8260C / EPA 5030C

| | | | | | | |
|---------------------------|-------|------|--|-----|---------------|------------|
| Field Grab | | | | | | |
| Vinyl chloride | < 2.0 | ug/L | | RRS | 284932-284933 | 2014-10-08 |
| Methylene chloride | < 2.0 | ug/L | | RRS | 284932-284933 | 2014-10-08 |
| trans-1,2-Dichloroethene | < 2.0 | ug/L | | RRS | 284932-284933 | 2014-10-08 |
| Chloroform | < 2.0 | ug/L | | RRS | 284932-284933 | 2014-10-08 |
| 1,2-Dichloroethane | < 2.0 | ug/L | | RRS | 284932-284933 | 2014-10-08 |
| Trichloroethene | < 2.0 | ug/L | | RRS | 284932-284933 | 2014-10-08 |
| Toluene | < 2.0 | ug/L | | RRS | 284932-284933 | 2014-10-08 |
| Tetrachloroethene | < 2.0 | ug/L | | RRS | 284932-284933 | 2014-10-08 |
| 1,1,2,2-Tetrachloroethane | < 2.0 | ug/L | | RRS | 284932-284933 | 2014-10-08 |

Sample Results

Report ID NY410022.0.40784

Sample ID

Client VandeMark Chemical, Inc.

Analytical Method / Prep Method

| Analyte | Results | Units | Qualifiers | Analyst | Vessel ID | Date |
|---------|---------|-------|------------|---------|-----------|------|
|---------|---------|-------|------------|---------|-----------|------|

022-1006-7 Field QA/QC Dup of 55 - Ground Water Sampled 10/6/2014**Volatiles**

EPA 8260C / EPA 5030C

WetChem

SM 4500-CI-B-97,11 / NA

| | | | | | | |
|------------|------|------|----|----|--------|------------|
| Field Grab | | | | | | |
| Chloride | 21.0 | mg/L | D2 | ME | 284935 | 2014-10-14 |

022-1006-8 Trip Blank - DI Water Sampled 10/6/2014**Volatiles**

EPA 8260C / EPA 5030C

| Trip Blank | | | | | | |
|---------------------------|-------|------|--|-----|--------|------------|
| Vinyl chloride | < 2.0 | ug/L | | RRS | 284936 | 2014-10-08 |
| Methylene chloride | < 2.0 | ug/L | | RRS | 284936 | 2014-10-08 |
| trans-1,2-Dichloroethene | < 2.0 | ug/L | | RRS | 284936 | 2014-10-08 |
| Chloroform | < 2.0 | ug/L | | RRS | 284936 | 2014-10-08 |
| 1,2-Dichloroethane | < 2.0 | ug/L | | RRS | 284936 | 2014-10-08 |
| Trichloroethene | < 2.0 | ug/L | | RRS | 284936 | 2014-10-08 |
| Toluene | < 2.0 | ug/L | | RRS | 284936 | 2014-10-08 |
| Tetrachloroethene | < 2.0 | ug/L | | RRS | 284936 | 2014-10-08 |
| 1,1,2,2-Tetrachloroethane | < 2.0 | ug/L | | RRS | 284936 | 2014-10-08 |

Data Qualifiers and Definitions:

- D Sample initially diluted due to sample matrix.
- D1 Sample diluted due to initial result outside of linear calibrated range of the instrument.
- D2 Sample initially diluted based on historical data.

General Disclaimer

- The test results are submitted pursuant to IsleChem LLC's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- This report is issued for the benefit of and may be relied upon by the client named above. The client bears full responsibility for deciding the level of testing for sample submitted to IsleChem LLC.
- These results pertain only to the items tested.
- This report shall not be reproduced except in full.
- If the sample(s) represented by these test results were not collected by IsleChem LLC then the test results are limited to the reported values determine by the analytical testing process. IsleChem LLC makes no representation regarding the sample's collection technique, condition, volume, homogeneity or any other aspect of the sample(s) prior to IsleChem LLC taking possession of the sample(s) and the influence it may have on the results.
- Unless notified in writing to return the samples covered by this report IsleChem LLC will store what remains of the sample(s), if anything, for a period of thirty (30) days, sixty (60) days for asbestos samples, before discarding, unless otherwise required by law. A shipping and handling fee with be charged for the return of any sample(s).
- Certain analytes may not be covered by the NYS DOH or NELAP fields of accreditation. Results for those analytes are generated by the cited method using QA/QC guidelines from IsleChem's Quality Control Manual, where applicable.

The test results in this report meet all NELAP requirements for parameters that are within IsleChem's field of accreditation. Any exceptions to NELAP requirements are noted in the comments field.

All results for solid samples are reported on a dry weight basis unless otherwise noted.

Visit us on the web at www.islechem.com

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

Page 1 of 3

| | | | | | | | | | | | | |
|---|--|---|--------|-----------------|----------------|--|--|---|---|-----|----|----------|
| VandeMark Chemical, Inc. Organization Name | | Semi-Annual Groundwater Monitoring Project Name | | | | 4 Samples / 16 Bottles # of Samples / # of Bottles | | | | | | |
| One North Transit Road Street Address | | Client PO / Release # | | | | Standard | | | | | | |
| Lockport, NY 14094 City, State, Zip | | Date Sampled <i>10/6/14</i> | | | | Turnaround Time/ Date Results Needed <i>N.Y. 410022.0.40784</i> | | | | | | |
| Chris Banach Contact Person | | For electronic report please provide e-mail address: c.banach@vdmchemical.com | | | | IsleChem Project # | | | | | | |
| 716-433-6764 / 716-433-2850 Phone# / Fax# | | | | | | | | | | | | |
| E-mail | | Volatiles - Method 624 (2172) | | Metals - (2620) | Chloride (622) | Field Parameters (235B) | Rush Work Performed at Priority Rate (see below) | | | | | |
| Sample ID | | Sample Location | Matrix | Comp | Grab | | | | Approved by Client | Yes | No | Initials |
| 284908 284909 | | VDM-10 | GW | | X | X | | | Approved by Lab | Yes | No | Initials |
| 284910 | | | GW | | X | | X | | Bottle Type / Preservative | | | |
| 284911 | | | GW | | X | | | X | Field pH: <i>5.58</i> | | | |
| 284912 284913 | | VDM-11 | GW | | X | X | | | Field Temp: <i>12.3°C</i> | | | |
| 284914 | | | GW | | X | | X | | Bottle Type / Preservative | | | |
| 284915 | | | GW | | X | | | X | Field pH: <i>5.44</i> | | | |
| 284916 284917 | | VDM-14 | GW | | X | X | | | Field Temp: <i>15.3°C</i> | | | |
| 284918 | | | GW | | X | | X | | Bottle Type / Preservative | | | |
| 284919 | | | GW | | X | | | X | Field pH: <i>4.79</i> | | | |
| | | VDM-12 | GW | | X | X | | | Field Temp: <i>16.3°C</i> | | | |
| | | | GW | | X | | X | | Bottle Type / Preservative | | | |
| | | | GW | | X | | | X | Field pH: _____ | | | |
| | | | GW | | X | | | X | Field Temp: _____ | | | |
| | | | GW | | X | | | X | Field tech attests that all QC is in compliance unless otherwise noted. | | | |

Comments: Final report to be e-mailed to Chris Banach (e-mail above), b.law, b.balus, b.krencik, c.banach, c.lemke, d.bilicki, e.vogt, j.barnes, p.ameis (all @vdmchemical.com)

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride
Metals - Cr, Cu, Fe, & Zn.

| | | | | | | | | |
|-------------------------------------|----------------------|-------------------|------------------|-------|-------|-------------------------------------|----------------------|-------------------|
| Sampled By: <i>[Signature]</i> | Date: <i>10/6/14</i> | Time: <i>1:30</i> | Received by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: <i>[Signature]</i> | Date: <i>10/6/14</i> | Time: <i>3:15</i> | Relinquished by: | Date: | Time: | Received by Lab: <i>[Signature]</i> | Date: <i>10/6/14</i> | Time: <i>3:30</i> |

Standard turnaround time is 10 days.
 RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 days.
 By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

| | | | | | | | | | | | | |
|---|---------------------|---|------|-------------------------------------|-----------------|---|-------------------------------|--|----------------------------|----|----------|--|
| VandeMark Chemical, Inc. Organization Name | | Semi-Annual Groundwater Monitoring Project Name | | | | 4 Samples / 13 Bottles # of Samples / # of Bottles | | | | | | |
| One North Transit Road Street Address | | Client PO / Release # <i>10/6/14</i> | | | | Standard Turnaround Time/ Date Results Needed <i>N.Y. 4100 22, C. 40784</i> | | | | | | |
| Lockport, NY 14094 City, State, Zip | | Date Sampled | | | | IsleChem Project # | | | | | | |
| Chris Banach Contact Person | | For electronic report please provide e-mail address: c.banach@vdmchemical.com | | Volatiles - Method 624 (2172) | Metals - (2620) | Chloride (622) | Field Parameters (2358) | Rush Work Performed at Priority Rate (see below) | | | | |
| 716-433-6764 / 716-433-2850 Phone# / Fax# | | E-mail | | | | | | Approved by Client | Yes | No | Initials | |
| | | | | | | | | Approved by Lab | Yes | No | Initials | |
| Sample ID | Sample Location | Matrix | Comp | Grab | | | | | Bottle Type / Preservative | | | |
| 284920 284921 | Eighteen Mile Creek | GW | | x | x | | | Field pH: <i>7.82</i> | (2) - 40 ml Vials (HCl) | | | |
| 284922 | | GW | | x | | x | | Field Temp: <i>16.8°</i> | 250 ml Poly (HNO3) | | | |
| 284923 | | GW | | x | | | x | | 250 ml Poly (None) | | | |
| 284924 284925 | D-55 | GW | | x | x | | | Field pH: <i>6.99</i> | (2) - 40 ml Vials (HCl) | | | |
| 284926 | | GW | | x | | x | | Field Temp: <i>13.2°</i> | 250 ml Poly (HNO3) | | | |
| 284927 | | GW | | x | | | x | | 250 ml Poly (None) | | | |
| 284928 284929 | VDM-9 | GW | | x | x | | | Field pH: <i>5.64</i> | (2) - 40 ml Vials (HCl) | | | |
| 284930 | | GW | | x | | x | | Field Temp: <i>17.2°</i> | 250 ml Poly (HNO3) | | | |
| 284931 | | GW | | x | | | x | <i>KSS</i> Field tech attests that all QC is in compliance unless otherwise noted. | 250 ml Poly (None) | | | |
| 284936 | Trip Blank | GW | | x | x | | | | (1) - 40 ml Vial (HCl) | | | |

Comments: Final report to be e-mailed to Chris Banach (e-mail above), b.law, b.balus, b.krencik, c.banach, c.lemke, d.bilicki, e.vogt, j.barnes, p.ameis (all @vdmchemical.com)

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride

Metals - Cr, Cu, Fe, & Zn.

| | | | | | | | | |
|-------------------------------------|----------------------|-------------------|------------------|-------|-------|-------------------------------------|----------------------|-------------------|
| Sampled By: <i>[Signature]</i> | Date: <i>10/6/14</i> | Time: <i>10:5</i> | Received by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: <i>[Signature]</i> | Date: <i>10/6/14</i> | Time: <i>3:15</i> | Relinquished by: | Date: | Time: | Received by lab: <i>[Signature]</i> | Date: <i>10/6/14</i> | Time: <i>3:35</i> |

Standard turnaround time is 10 days.
RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 da
 By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

| | | | | | | | | | | | | | | | | |
|---|-----------------------|--|---|------|------|-------------------------------------|-----------------|----------------|-------------------------------|--|---|--|--|--|--|---|
| VandeMark Chemical, Inc. Organization Name | | | Semi-Annual Groundwater Monitoring Project Name | | | | | | | | 1 Sample / 4 Bottles # of Samples / # of Bottles | | | | | |
| One North Transit Road Street Address | | | Client PO / Release # | | | | | | | | Standard | | | | | |
| Lockport, NY 14094 City, State, Zip | | | 10/6/14 Date Sampled | | | | | | | | Turnaround Time/ Date Results Needed N.Y. 10022.O. 10784 | | | | | |
| Chris Banach Contact Person | | | For electronic report please provide e-mail address: c.banach@vdmchemical.com | | | Volatiles - Method 624 (2172) | Metals - (2620) | Chloride (622) | Field Parameters (2358) | | | | | | | Rush Work Performed at Priority Rate (see below) Approved by Client Yes No Initials Approved by Lab Yes No Initials |
| 716-433-6764 / 716-433-2850 Phone# / Fax# | | | E-mail | | | | | | | | | | | | | |
| Sample ID | Sample Location | | Matrix | Comp | Grab | | | | | | | | | | | Bottle Type / Preservative |
| 284932 284933 | Field QA/QC Dup of 55 | | GW | | X | X | | | | | | | | | | Field pH: 6.95 (2) - 40 ml Vials (HCl) |
| 284934 | | | GW | | X | | X | | | | | | | | | Field Temp: 13.2°C 250 ml Poly (HNO3) |
| 284935 | | | GW | | X | | | X | | | | | | | | KSS Field tech attests that all QC is in compliance unless otherwise noted. 250 ml Poly (None) |

Comments: Final report to be e-mailed to Chris Banach (e-mail above), b.law, b.balus, b.krencik, c.banach, c.lemke, d.bilicki, e.vogt, j.barnes, p.ameis (all @vdmchemical.com)

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chlor

Metals - Cr, Cu, Fe, & Zn.

| | | | | | | | | |
|---|---------------|------------|------------------|-------|-------|-------------------------------------|---------------|------------|
| Sampled By: <i>Kenneth Schmitt</i> | Date: 10/6/14 | Time: 1:30 | Received by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: <i>Dominic Speluch</i> | Date: 10/6/14 | Time: 3:15 | Relinquished by: | Date: | Time: | Received by lab: <i>[Signature]</i> | Date: 10/6/14 | Time: 3:35 |

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 d
By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.



Client Name: VandeMark

IsleChem, LLC Job Number: NY-410022

Sample(s) received by: [Signature] Date: 10/6/11 Time: 3:30

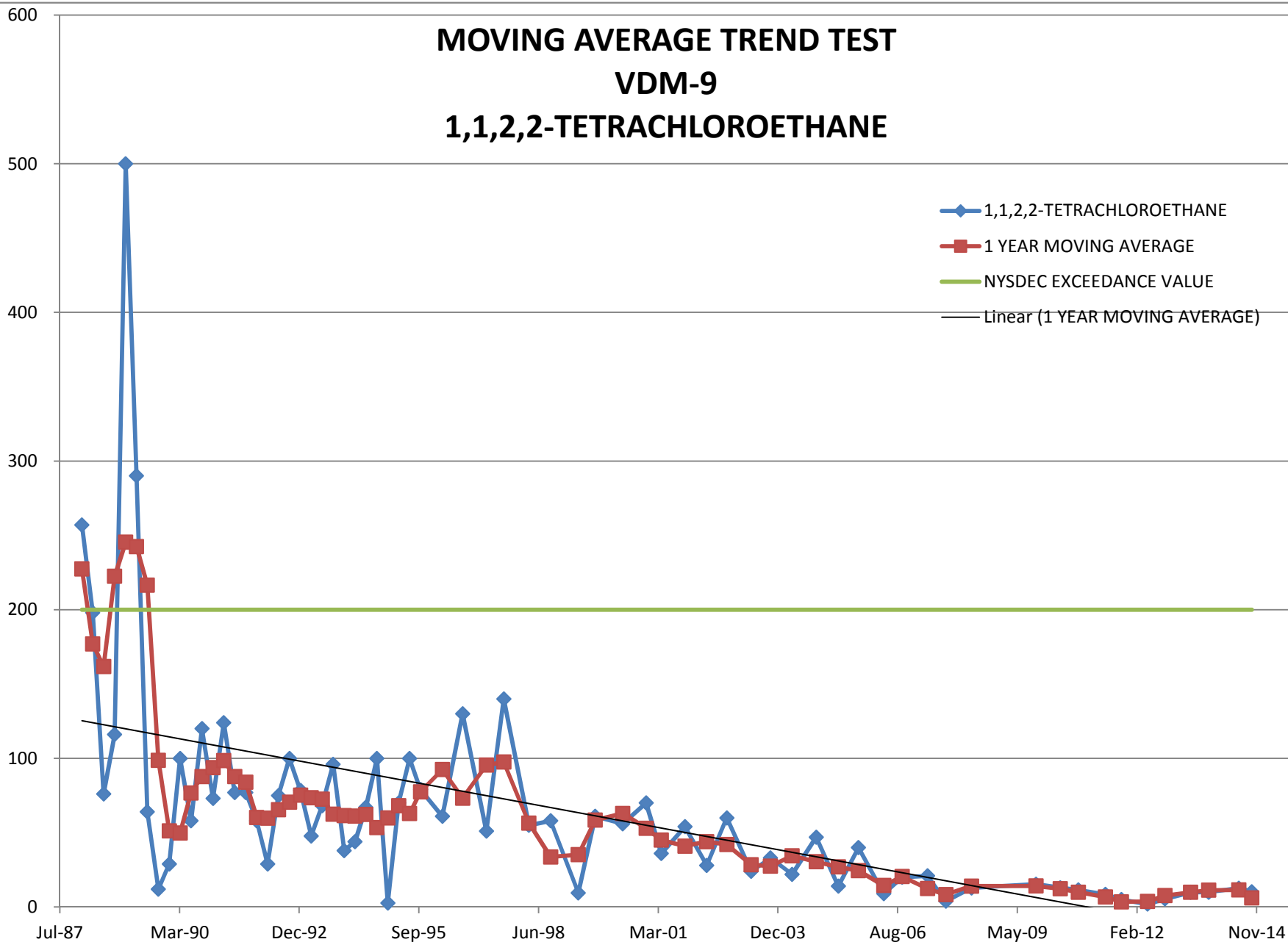
Is the chain of custody identified clearly with complete documentation including:

| | | | | |
|--|------------|----|------------|-----------|
| Sample location/Identification | <u>YES</u> | NO | N/A | Corrected |
| Sample date | <u>YES</u> | NO | N/A | Corrected |
| Sample time | <u>YES</u> | NO | N/A | Corrected |
| Client name | <u>YES</u> | NO | N/A | Corrected |
| Preservation type | <u>YES</u> | NO | N/A | Corrected |
| Required analysis is listed on each bottle | <u>YES</u> | NO | N/A | Corrected |
| Are the sample labels clear and do they provide a unique identification of the sample linked to COC? | <u>YES</u> | NO | N/A | Corrected |
| Are the sample containers appropriate? | <u>YES</u> | NO | N/A | Corrected |
| Is the sample date within the required hold times? | <u>YES</u> | NO | N/A | Corrected |
| Is there adequate volume available for requested analysis? | <u>YES</u> | NO | N/A | Corrected |
| Did the customer list what sample analysis is required? | <u>YES</u> | NO | N/A | Corrected |
| Is a chain of custody included? | <u>YES</u> | NO | N/A | Corrected |
| Is the chain of custody complete? | <u>YES</u> | NO | N/A | Corrected |
| Are the sample(s) free of apparent damage? | <u>YES</u> | NO | N/A | Corrected |
| Temperature <u>16°C</u> Has cooling begun? | <u>YES</u> | NO | N/A | - |
| Is temperature 6° C or less if sample(s) were held prior to delivery date? | YES | NO | <u>N/A</u> | - |
| Are samples appropriately preserved if necessary? | <u>YES</u> | NO | N/A | Corrected |
| VOA sample vials do not have headspace or visible "pea-sized" air bubbles > (1/4") in diameter. | <u>YES</u> | NO | N/A | Corrected |
| If necessary, lab management has been notified of any short hold or quick TAT samples. | YES | NO | <u>N/A</u> | - |
| If necessary, lab has been notified of any attached comments. | YES | NO | <u>N/A</u> | - |

Comments/Actions: _____

MOVING AVERAGE TREND TEST VDM-9 1,1,2,2-TETRACHLOROETHANE

- 1,1,2,2-TETRACHLOROETHANE
- 1 YEAR MOVING AVERAGE
- NYSDEC EXCEEDANCE VALUE
- Linear (1 YEAR MOVING AVERAGE)



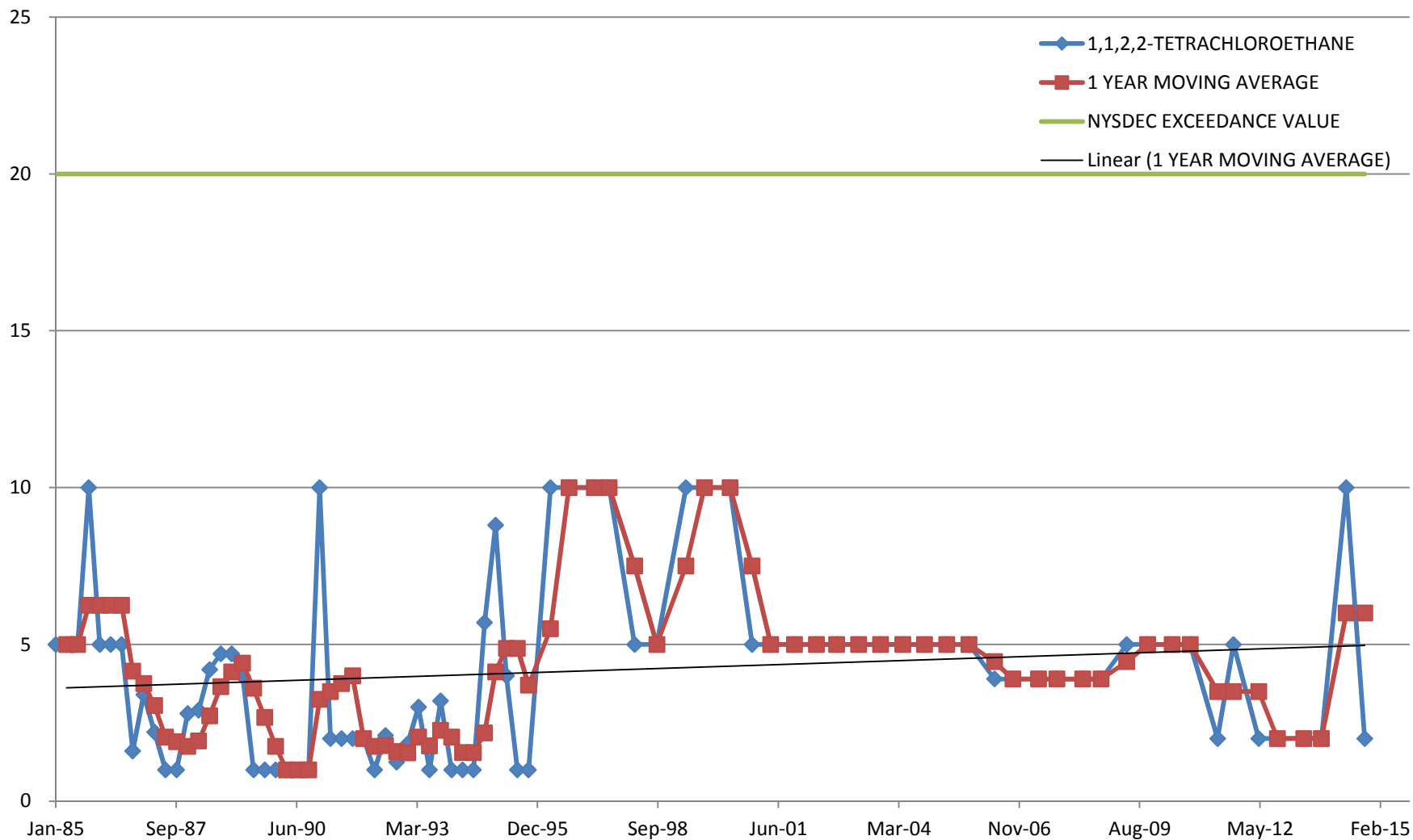
WELL VDM - 9 : 1,1,2,2-TETRACHLOROETHANE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVERAGE |
|----------------|----------|------------------|--------------|-------------------|----------------|
| Jan-87 | | 200 | 5 | TOTAL STD 77.0624 | |
| Apr-87 | | 200 | 5 | TOTAL Sx 9.70895 | |
| Jul-87 | 257 | 200 | 5 | TOTAL MEAN 68.765 | |
| Oct-87 | 198 | 200 | 5 | TOTAL N 64 | 227.50 |
| Jan-88 | 76 | 200 | 5 | TOTAL df 63 | 177.00 |
| Apr-88 | 116 | 200 | 5 | | 161.75 |
| Jul-88 | 500 | 200 | 5 | | 222.50 |
| Oct-88 | 290 | 200 | 5 | | 245.50 |
| Jan-89 | 64 | 200 | 5 | | 242.50 |
| Apr-89 | 12 | 200 | 5 | | 216.50 |
| Jul-89 | 29 | 200 | 5 | | 98.75 |
| Oct-89 | 100 | 200 | 5 | | 51.25 |
| Jan-90 | 58 | 200 | 5 | | 49.75 |
| Apr-90 | 120 | 200 | 5 | | 76.75 |
| Jul-90 | 73 | 200 | 5 | | 87.75 |
| Oct-90 | 124 | 200 | 5 | | 93.75 |
| Jan-91 | 77 | 200 | 5 | | 98.50 |
| Apr-91 | 77 | 200 | 5 | | 87.75 |
| Jul-91 | 58 | 200 | 5 | | 84.00 |
| Oct-91 | 29 | 200 | 5 | | 60.25 |
| Jan-92 | 75 | 200 | 5 | | 59.75 |
| Apr-92 | 100 | 200 | 5 | | 65.50 |
| Jul-92 | 78.4 | 200 | 5 | | 70.60 |
| Oct-92 | 47.8 | 200 | 5 | | 75.30 |
| Jan-93 | 68.1 | 200 | 5 | | 73.58 |
| Apr-93 | 96 | 200 | 5 | | 72.58 |
| Jul-93 | 38 | 200 | 5 | | 62.48 |
| Oct-93 | 44 | 200 | 5 | | 61.53 |
| Jan-94 | 67 | 200 | 5 | | 61.25 |
| Apr-94 | 100 | 200 | 5 | | 62.25 |
| Jul-94 | 3 | 200 | 5 | | 53.40 |
| Oct-94 | 70 | 200 | 5 | | 59.90 |
| Jan-95 | 100 | 200 | 5 | | 68.15 |
| Apr-95 | 79 | 200 | 5 | | 62.90 |
| Jul-95 | 61 | 200 | 5 | | 77.50 |
| Oct-95 | 130 | 200 | 2 | | 92.50 |
| Apr-96 | 51 | 200 | 2 | | 73.25 |
| Sep-96 | 140 | 200 | 10 | | 95.5 |
| Apr-97 | 55 | 200 | 10 | | 97.5 |
| Aug-97 | 58 | 200 | 10 | | 56.5 |
| Mar-98 | 9.5 | 200 | 5 | | 33.75 |
| Sep-98 | 61 | 200 | 5 | | 35.25 |
| May-99 | 56 | 200 | 10 | | 58.5 |
| Sep-99 | 70 | 200 | 10 | | 63 |
| May-00 | 36 | 200 | 10 | | 53 |
| Nov-00 | 54 | 200 | 5 | | 45 |
| Apr-01 | 28 | 200 | 5 | | 41 |
| Oct-01 | 60 | 200 | 5 | | 44 |
| Apr-02 | 24 | 200 | 5 | | 42 |
| Oct-02 | 33 | 200 | 5 | | 28.5 |
| Apr-03 | 22 | 200 | 5 | | 27.5 |
| Oct-03 | 47 | 200 | 5 | | 34.5 |
| Apr-04 | 14 | 200 | 5 | | 30.5 |
| Oct-04 | 40 | 200 | 5 | | 27 |
| Apr-05 | 9 | 200 | 5 | | 24.5 |
| Oct-05 | 20 | 200 | 5 | | 14.5 |
| May-06 | 21 | 200 | 5 | | 20.5 |
| Oct-06 | 3.9 | 200 | 5 | | 12.45 |
| May-07 | 12.8 | 200 | 5 | | 8.35 |
| Oct-07 | 15.4 | 200 | 5 | | 14.1 |
| May-08 | 13 | 200 | 5 | | 14.2 |
| Oct-09 | 11.5 | 200 | 5 | | 12.25 |
| May-10 | 8.46 | 200 | 5 | | 9.98 |
| Oct-10 | 5 | 200 | 5 | | 6.73 |
| Jun-11 | 2 | 200 | 2 | | 3.5 |
| Oct-11 | 5.5 | 200 | 2 | | 3.75 |
| May-12 | 9.9 | 200 | 2 | | 7.7 |
| Oct-12 | 10 | 200 | 2 | | 9.95 |
| May-13 | 12.7 | 200 | 2 | | 11.35 |
| Oct-13 | 10.3 | 200 | 2 | | 11.5 |
| Jun-14 | 2.1 | 200 | 2 | | 6.2 |
| Oct-14 | 2 | 200 | 2 | | 2.05 |

WELL VDM - 9 : 1,1,2,2-TETRACHLOROETHANE

| SAMPLING EVENT | NO. | | |
|----------------|----------|------------|----|
| | 1 | | |
| | 2 | | |
| | 3 | | |
| | 4 | | |
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| | 28 | | |
| | 29 | | |
| | 30 | | |
| | 31 | | |
| | 32 | | |
| | 33 | | |
| | 34 | | |
| | 35 | | |
| | 36 | | |
| 73.25 | 04/01/96 | 37 | |
| 95.5 | 09/17/96 | semiannual | 38 |
| 97.5 | 04/03/97 | semiannual | 39 |
| 56.5 | 08/27/97 | semiannual | 40 |
| 33.75 | 03/24/98 | semiannual | 41 |
| 35.25 | 09/22/98 | semiannual | 42 |
| 58.5 | 05/11/99 | semiannual | 43 |
| 63 | 09/29/99 | semiannual | 44 |
| 53 | 05/16/00 | semiannual | 45 |
| 45 | 11/28/00 | semiannual | 46 |
| 41 | 04/04/01 | semiannual | 47 |
| 44 | 10/18/01 | semiannual | 48 |
| 42 | 04/18/02 | semiannual | 49 |
| 28.5 | 10/03/02 | semiannual | 50 |
| 27.5 | 04/25/03 | semiannual | 51 |
| 34.5 | 10/03/03 | semiannual | 52 |
| 30.5 | 04/01/04 | semiannual | 53 |
| 27 | 10/19/04 | semiannual | 54 |
| 24.5 | 04/22/05 | semiannual | 55 |
| 14.5 | 10/07/05 | semiannual | 56 |
| 20.5 | 05/11/06 | semiannual | 57 |
| 12.45 | 10/18/06 | semiannual | 58 |
| 8.35 | 05/22/07 | semiannual | 59 |
| 14.1 | 10/25/07 | semiannual | 60 |
| 14.2 | 05/13/08 | semiannual | 61 |
| 12.25 | 10/29/09 | semiannual | 62 |
| 9.98 | 05/20/10 | semiannual | 63 |
| 6.73 | 10/18/10 | semiannual | 64 |
| 3.5 | 06/02/11 | semiannual | 65 |
| 3.75 | 10/12/11 | semiannual | 66 |
| 7.7 | 05/18/12 | semiannual | 67 |
| 9.95 | 10/11/12 | semiannual | 68 |
| 11.35 | 05/17/13 | semiannual | 69 |
| 11.5 | 10/11/13 | semiannual | 70 |
| 6.2 | 05/06/14 | semiannual | 71 |
| 2.05 | 10/06/14 | semiannual | 72 |

MOVING AVERAGE TREND TEST VDM-10 1,1,2,2-TETRACHLOROETHANE

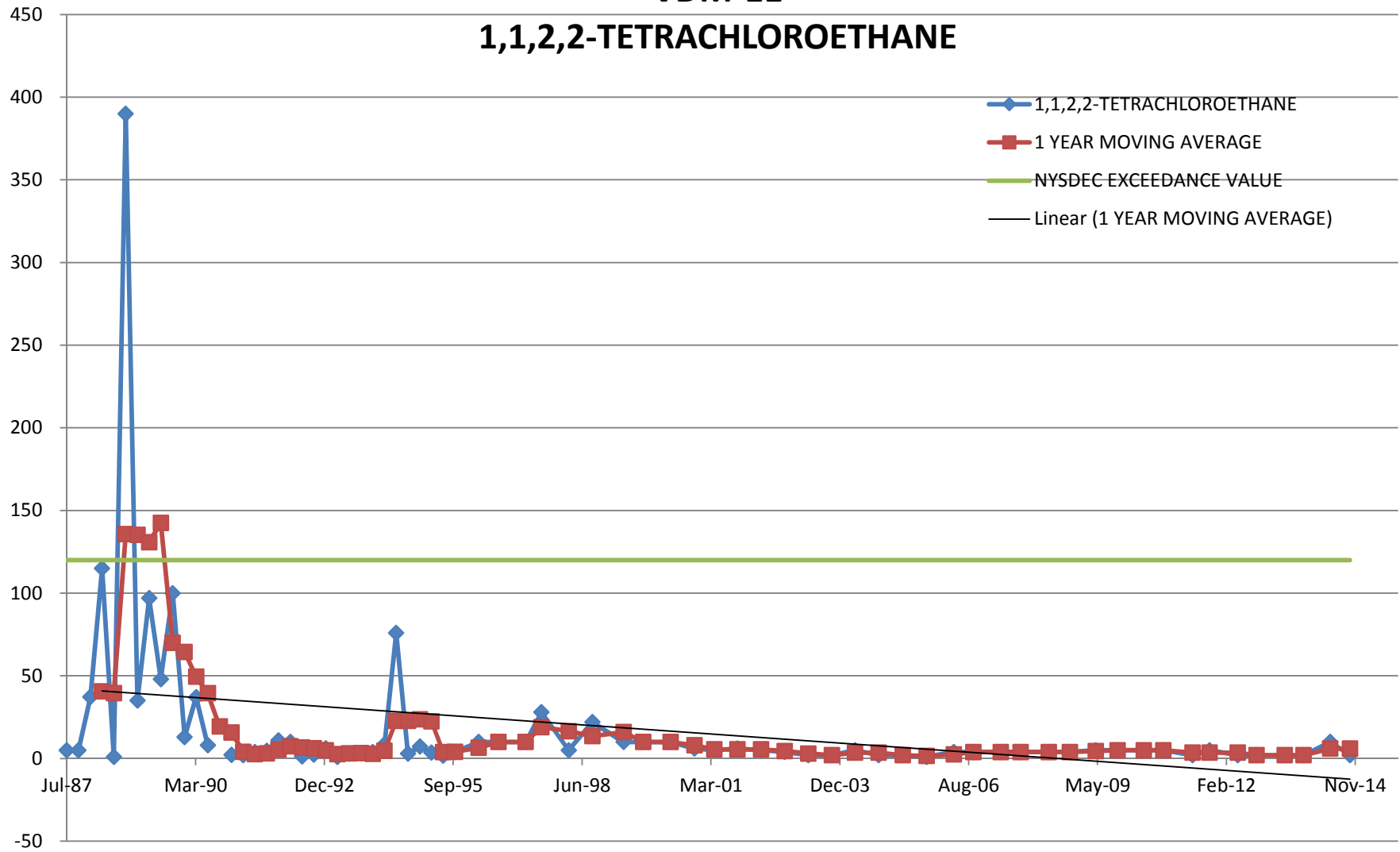


WELL VDM - 10 : 1,1,2,2-TETRACHLOROETHANE

WELL VDM - 10 : 1,1,2,2-TETRACHLOROETHANE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVERAGE | SAMPLING EVENT NO. |
|-------------------|-------------|------------------------|----------------|---------------------|-------------------|-----------------------------|
| - | - | - | - | - | - | - |
| Jul-84 | | 20 | 5 | TOTAL STD 2.7063937 | | 1 |
| Oct-84 | | 20 | 5 | TOTAL Sx 0.3125074 | | 2 |
| Jan-85 | 5 | 20 | 5 | TOTAL ME/ 4.1944737 | | 3 |
| Apr-85 | 5 | 20 | 5 | TOTAL N 76 | 5.00 | 4 |
| Jul-85 | 5 | 20 | 5 | TOTAL df 75 | 5.00 | 5 |
| Oct-85 | 10 | 20 | 5 | | 6.25 | 6 |
| Jan-86 | 5 | 20 | 5 | | 6.25 | 7 |
| Apr-86 | 5 | 20 | 5 | | 6.25 | 8 |
| Jul-86 | 5 | 20 | 5 | | 6.25 | 9 |
| Oct-86 | 1.6 | 20 | 5 | | 4.15 | 10 |
| Jan-87 | 3.4 | 20 | 5 | | 3.75 | 11 |
| Apr-87 | 2.2 | 20 | 5 | | 3.05 | 12 |
| Jul-87 | 1 | 20 | 5 | | 2.05 | 13 |
| Oct-87 | 1 | 20 | 5 | | 1.90 | 14 |
| Jan-88 | 2.8 | 20 | 5 | | 1.75 | 15 |
| Apr-88 | 2.9 | 20 | 5 | | 1.93 | 16 |
| Jul-88 | 4.2 | 20 | 5 | | 2.73 | 17 |
| Oct-88 | 4.7 | 20 | 5 | | 3.65 | 18 |
| Jan-89 | 4.7 | 20 | 5 | | 4.13 | 19 |
| Apr-89 | 4 | 20 | 5 | | 4.40 | 20 |
| Jul-89 | 1 | 20 | 5 | | 3.60 | 21 |
| Oct-89 | 1 | 20 | 5 | | 2.68 | 22 |
| Jan-90 | 1 | 20 | 5 | | 1.75 | 23 |
| Apr-90 | 1 | 20 | 5 | | 1.00 | 24 |
| Jul-90 | 1 | 20 | 5 | | 1.00 | 25 |
| Oct-90 | 1 | 20 | 5 | | 1.00 | 26 |
| Jan-91 | 10 | 20 | 5 | | 3.25 | 27 |
| Apr-91 | 2 | 20 | 5 | | 3.50 | 28 |
| Jul-91 | 2 | 20 | 5 | | 3.75 | 29 |
| Oct-91 | 2 | 20 | 5 | | 4.00 | 30 |
| Jan-92 | 2 | 20 | 5 | | 2.00 | 31 |
| Apr-92 | 1 | 20 | 5 | | 1.75 | 32 |
| Jul-92 | 2.1 | 20 | 5 | | 1.78 | 33 |
| Oct-92 | 1.25 | 20 | 5 | | 1.59 | 34 |
| Jan-93 | 1.83 | 20 | 5 | | 1.55 | 35 |
| Apr-93 | 3 | 20 | 5 | | 2.05 | 36 |
| Jul-93 | 1 | 20 | 5 | | 1.77 | 37 |
| Oct-93 | 3.2 | 20 | 5 | | 2.26 | 38 |
| Jan-94 | 1 | 20 | 5 | | 2.05 | 39 |
| Apr-94 | 1 | 20 | 5 | | 1.55 | 40 |
| Jul-94 | 1 | 20 | 5 | | 1.55 | 41 |
| Oct-94 | 5.7 | 20 | 5 | | 2.18 | 42 |
| Jan-95 | 8.8 | 20 | 5 | | 4.13 | 43 |
| Apr-95 | 4 | 20 | 5 | | 4.88 | 44 |
| Jul-95 | 1 | 20 | 5 | | 4.88 | 45 |
| Oct-95 | 1 | 20 | 1 | | 3.70 | 46 |
| Apr-96 | 10 | 20 | 10 | | 5.50 | 47 |
| Sep-96 | 10 | 20 | 10 | | 10 | 10 09/17/96 semiannual 48 |
| Apr-97 | 10 | 20 | 10 | | 10 | 10 04/03/97 semiannual 49 |
| Aug-97 | 10 | 20 | 10 | | 10 | 10 08/27/97 semiannual 50 |
| Mar-98 | 5 | 20 | 5 | | 7.5 | 7.5 03/24/98 semiannual 51 |
| Sep-98 | 5 | 20 | 5 | | 5 | 5 09/22/98 semiannual 52 |
| May-99 | 10 | 20 | 10 | | 7.5 | 7.5 05/11/99 semiannual 53 |
| Oct-99 | 10 | 20 | 10 | | 10 | 10 10/05/99 semiannual 54 |
| May-00 | 10 | 20 | 10 | | 10 | 10 05/16/00 semiannual 55 |
| Nov-00 | 5 | 20 | 5 | | 7.5 | 7.5 11/28/00 semiannual 56 |
| Apr-01 | 5 | 20 | 5 | | 5 | 5 04/04/01 semiannual 57 |
| Oct-01 | 5 | 20 | 5 | | 5 | 5 10/18/01 semiannual 58 |
| Apr-02 | 5 | 20 | 5 | | 5 | 5 04/18/02 semiannual 59 |
| Oct-02 | 5 | 20 | 5 | | 5 | 5 10/03/02 semiannual 60 |
| Apr-03 | 5 | 20 | 5 | | 5 | 5 04/25/03 semiannual 61 |
| Oct-03 | 5 | 20 | 5 | | 5 | 5 10/03/03 semiannual 62 |
| Apr-04 | 5 | 20 | 5 | | 5 | 5 04/01/04 semiannual 63 |
| Oct-04 | 5 | 20 | 5 | | 5 | 5 10/19/04 semiannual 64 |
| Apr-05 | 5 | 20 | 5 | | 5 | 5 04/22/05 semiannual 65 |
| Oct-05 | 5 | 20 | 5 | | 5 | 5 10/07/05 semiannual 66 |
| May-06 | 3.9 | 20 | 5 | | 4.45 | 4.45 05/11/06 semiannual 67 |
| Oct-06 | 3.9 | 20 | 5 | | 3.9 | 3.9 10/18/06 semiannual 68 |
| May-07 | 3.9 | 20 | 5 | | 3.9 | 3.9 05/22/07 semiannual 69 |
| Oct-07 | 3.9 | 20 | 5 | | 3.9 | 3.9 10/25/07 semiannual 70 |
| May-08 | 3.9 | 20 | 5 | | 3.9 | 3.9 05/13/08 semiannual 71 |
| Oct-08 | 3.9 | 20 | 5 | | 3.9 | 3.9 10/23/08 semiannual 72 |
| May-09 | 5 | 20 | 5 | | 4.45 | 4.45 05/09/09 semiannual 73 |
| Oct-09 | 5 | 20 | 5 | | 5 | 5 10/29/09 semiannual 74 |
| May-10 | 5 | 20 | 5 | | 5 | 5 05/20/10 semiannual 75 |
| Oct-10 | 5 | 20 | 5 | | 5 | 5 10/18/10 semiannual 76 |
| Jun-11 | 2 | 20 | 2 | | 3.5 | 3.5 06/02/11 semiannual 77 |
| Oct-11 | 5 | 20 | 5 | | 3.5 | 3.5 10/12/11 semiannual 78 |
| May-12 | 2 | 20 | 2 | | 3.5 | 3.5 05/08/12 semiannual 79 |
| Oct-12 | 2 | 20 | 2 | | 2 | 2 10/11/12 semiannual 80 |
| May-13 | 2 | 20 | 2 | | 2 | 2 05/17/13 semiannual 81 |
| Oct-13 | 2 | 20 | 2 | | 2 | 2 10/11/13 semiannual 82 |
| May-14 | 10 | 20 | 10 | | 6 | 6 05/05/14 semiannual 83 |
| Oct-14 | 2 | 20 | 2 | | 6 | 6 10/06/14 semiannual 84 |

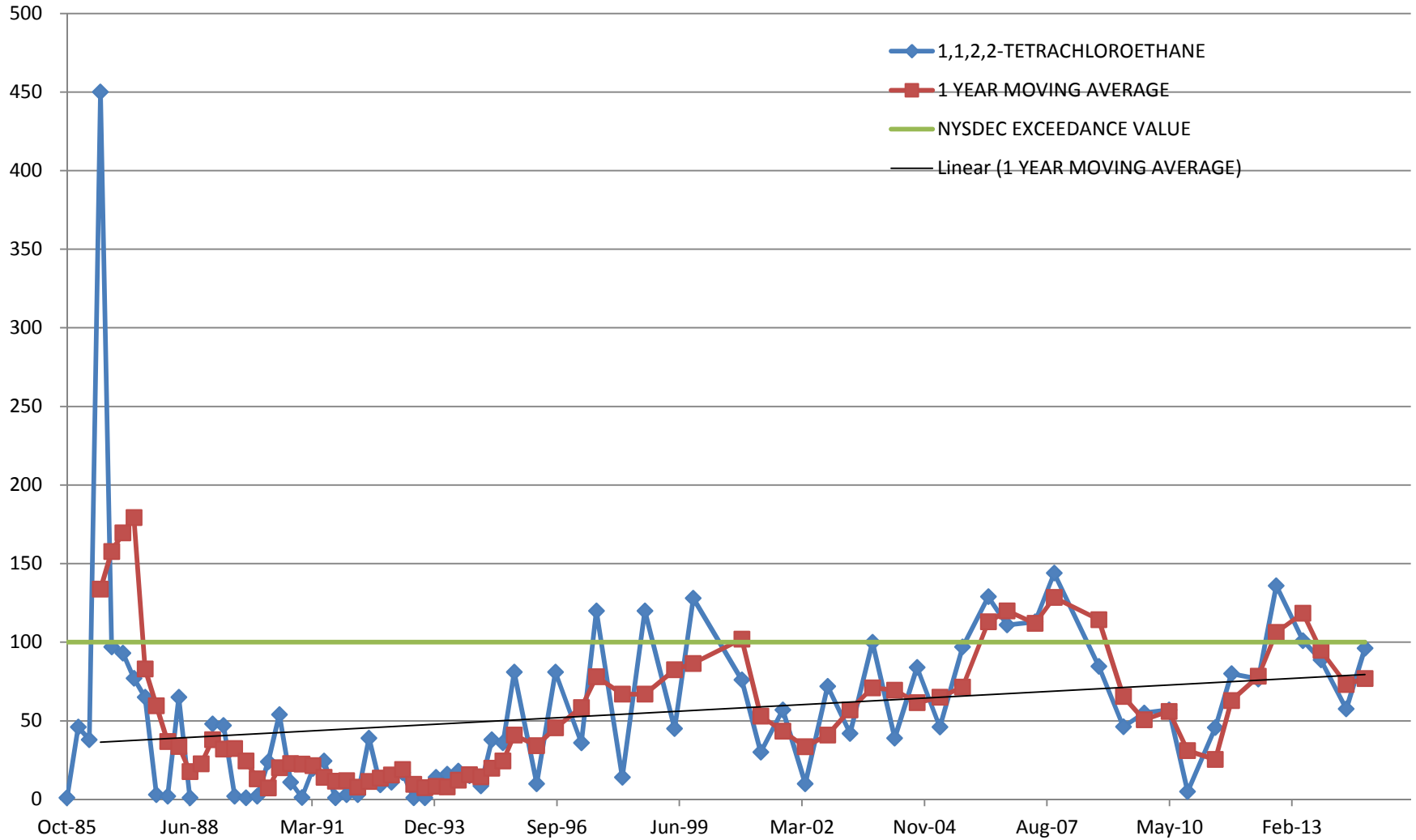
MOVING AVERAGE TREND TEST VDM-11 1,1,2,2-TETRACHLOROETHANE



WELL VDM - 11 : 1,1,2,2-TETRACHLOROETHANE

| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | SAMPLING EVENT NO. | | | |
|--------------------------|-------------|------------------------|-----------------|--------------------|---------------|--------------------------|------------|------------|----|
| - | - | - | - | - | - | - | | | |
| Jan-87 | | 120 | 5 | TOTAL STD 51.2874 | | 1 | | | |
| Apr-87 | | 120 | 5 | TOTAL Sx 6.3130 | | 2 | | | |
| Jul-87 | 5 | 120 | 5 | TOTAL MEAN 18.7876 | | 3 | | | |
| Oct-87 | 5 | 120 | 5 | TOTAL N 67 | | 4 | | | |
| Jan-88 | 37.2 | 120 | 5 | TOTAL df 66 | | 5 | | | |
| Apr-88 | 115 | 120 | 5 | | 40.55 | 6 | | | |
| Jul-88 | 1 | 120 | 5 | | 39.55 | 7 | | | |
| Oct-88 | 390 | 120 | 5 | | 135.80 | 8 | | | |
| Jan-89 | 35 | 120 | 5 | | 135.25 | 9 | | | |
| Apr-89 | 97 | 120 | 5 | | 130.75 | 10 | | | |
| Jul-89 | 48 | 120 | 5 | | 142.50 | 11 | | | |
| Oct-89 | 100 | 120 | 5 | | 70.00 | 12 | | | |
| Jan-90 | 13 | 120 | 5 | | 64.50 | 13 | | | |
| Apr-90 | 37 | 120 | 5 | | 49.50 | 14 | | | |
| Jul-90 | 8 | 120 | 5 | | 39.50 | 15 | | | |
| Oct-90 | | 120 | 5 | | 19.33 | 16 | | | |
| Jan-91 | 2.2 | 120 | 5 | | 15.73 | 17 | | | |
| Apr-91 | 2 | 120 | 5 | | 4.07 | 18 | | | |
| Jul-91 | 3.8 | 120 | 5 | | 2.67 | 19 | | | |
| Oct-91 | 4.6 | 120 | 5 | | 3.15 | 20 | | | |
| Jan-92 | 11 | 120 | 5 | | 5.35 | 21 | | | |
| Apr-92 | 10 | 120 | 5 | | 7.35 | 22 | | | |
| Jul-92 | 1.25 | 120 | 5 | | 6.71 | 23 | | | |
| Oct-92 | 2.4 | 120 | 5 | | 6.16 | 24 | | | |
| Jan-93 | 6.22 | 120 | 5 | | 4.97 | 25 | | | |
| Apr-93 | 1 | 120 | 5 | | 2.72 | 26 | | | |
| Jul-93 | 3 | 120 | 5 | | 3.16 | 27 | | | |
| Oct-93 | 3.1 | 120 | 5 | | 3.33 | 28 | | | |
| Jan-94 | 3.8 | 120 | 5 | | 2.73 | 29 | | | |
| Apr-94 | 8.5 | 120 | 5 | | 4.60 | 30 | | | |
| Jul-94 | 76 | 120 | 5 | | 22.85 | 31 | | | |
| Oct-94 | 2.9 | 120 | 5 | | 22.80 | 32 | | | |
| Jan-95 | 7.2 | 120 | 5 | | 23.65 | 33 | | | |
| Apr-95 | 3.5 | 120 | 5 | | 22.40 | 34 | | | |
| Jul-95 | 1.8 | 120 | 5 | | 3.85 | 35 | | | |
| Oct-95 | 3.9 | 120 | 1 | | 4.10 | 36 | | | |
| Apr-96 | 10 | 120 | 10 | | 6.425 | 37 | | | |
| Sep-96 | 10 | 120 | 10 | | 10 | 10 | 9/17/1996 | semiannual | 38 |
| Apr-97 | 10 | 120 | 10 | | 10 | 10 | 4/3/1997 | semiannual | 39 |
| Aug-97 | 28 | 120 | 10 | | 19 | 19 | 8/27/1997 | semiannual | 40 |
| Mar-98 | 5 | 120 | 5 | | 16.5 | 16.5 | 3/24/1998 | semiannual | 41 |
| Sep-98 | 22 | 120 | 5 | | 13.5 | 13.5 | 9/22/1998 | semiannual | 42 |
| May-99 | 10 | 120 | 10 | | 16 | 16 | 5/11/1999 | semiannual | 43 |
| Oct-99 | 10 | 120 | 10 | | 10 | 10 | 10/5/1999 | semiannual | 44 |
| May-00 | 10 | 120 | 10 | | 10 | 10 | 5/16/2000 | semiannual | 45 |
| Nov-00 | 6 | 120 | 5 | | 8 | 8 | 11/28/2000 | semiannual | 46 |
| Apr-01 | 5 | 120 | 5 | | 5.5 | 5.5 | 4/4/2001 | semiannual | 47 |
| Oct-01 | 6 | 120 | 5 | | 5.5 | 5.5 | 10/18/2001 | semiannual | 48 |
| Apr-02 | 5 | 120 | 5 | | 5.5 | 5.5 | 4/18/2002 | semiannual | 49 |
| Oct-02 | 4 | 120 | 5 | | 4.5 | 4.5 | 10/3/2002 | semiannual | 50 |
| Apr-03 | 2 | 120 | 5 | | 3 | 3 | 4/25/2003 | semiannual | 51 |
| Oct-03 | 2 | 120 | 5 | | 2 | 2 | 10/3/2003 | semiannual | 52 |
| Apr-04 | 5 | 120 | 5 | | 3.5 | 3.5 | 4/1/2004 | semiannual | 53 |
| Oct-04 | 2 | 120 | 5 | | 3.5 | 3.5 | 10/19/2004 | semiannual | 54 |
| Apr-05 | 2 | 120 | 5 | | 2 | 2 | 4/22/2005 | semiannual | 55 |
| Oct-05 | 1 | 120 | 5 | | 1.5 | 1.5 | 10/7/2005 | semiannual | 56 |
| May-06 | 3.9 | 120 | 5 | | 2.45 | 2.45 | 5/11/2006 | semiannual | 57 |
| Oct-06 | 3.9 | 120 | 5 | | 3.9 | 3.9 | 10/18/2006 | semiannual | 58 |
| May-07 | 3.9 | 120 | 5 | | 3.9 | 3.9 | 5/22/2007 | semiannual | 59 |
| Oct-07 | 3.9 | 120 | 5 | | 3.9 | 3.9 | 10/25/2007 | semiannual | 60 |
| May-08 | 3.9 | 120 | 5 | | 3.9 | 3.9 | 5/13/2008 | semiannual | 61 |
| Oct-08 | 3.9 | 120 | 5 | | 3.9 | 3.9 | 10/23/2008 | semiannual | 62 |
| May-09 | 5 | 120 | 5 | | 4.45 | 4.45 | 5/12/2009 | semiannual | 63 |
| Oct-09 | 5 | 120 | 5 | | 5 | 5 | 10/29/2009 | semiannual | 64 |
| May-10 | 5 | 120 | 5 | | 5 | 5 | 5/20/2010 | semiannual | 65 |
| Oct-10 | 5 | 120 | 5 | | 5 | 5 | 10/18/2010 | semiannual | 66 |
| Jun-11 | 2 | 120 | 2 | | 3.5 | 3.5 | 6/2/2011 | semiannual | 67 |
| Oct-11 | 5 | 120 | 5 | | 3.5 | 3.5 | 10/12/2011 | semiannual | 68 |
| May-12 | 2 | 120 | 2 | | 3.5 | 3.5 | 5/18/2012 | semiannual | 69 |
| Oct-12 | 2 | 120 | 2 | | 2 | 2 | 10/11/2012 | semiannual | 70 |
| May-13 | 2 | 120 | 2 | | 2 | 2 | 5/17/2013 | semiannual | 71 |
| Oct-13 | 2 | 120 | 2 | | 2 | 2 | 10/11/2013 | semiannual | 72 |
| May-14 | 10 | 120 | 10 | | 6 | 6 | 5/5/2014 | semiannual | 73 |
| Oct-14 | 2 | 120 | 2 | | 6 | 6 | 10/6/2014 | semiannual | 74 |

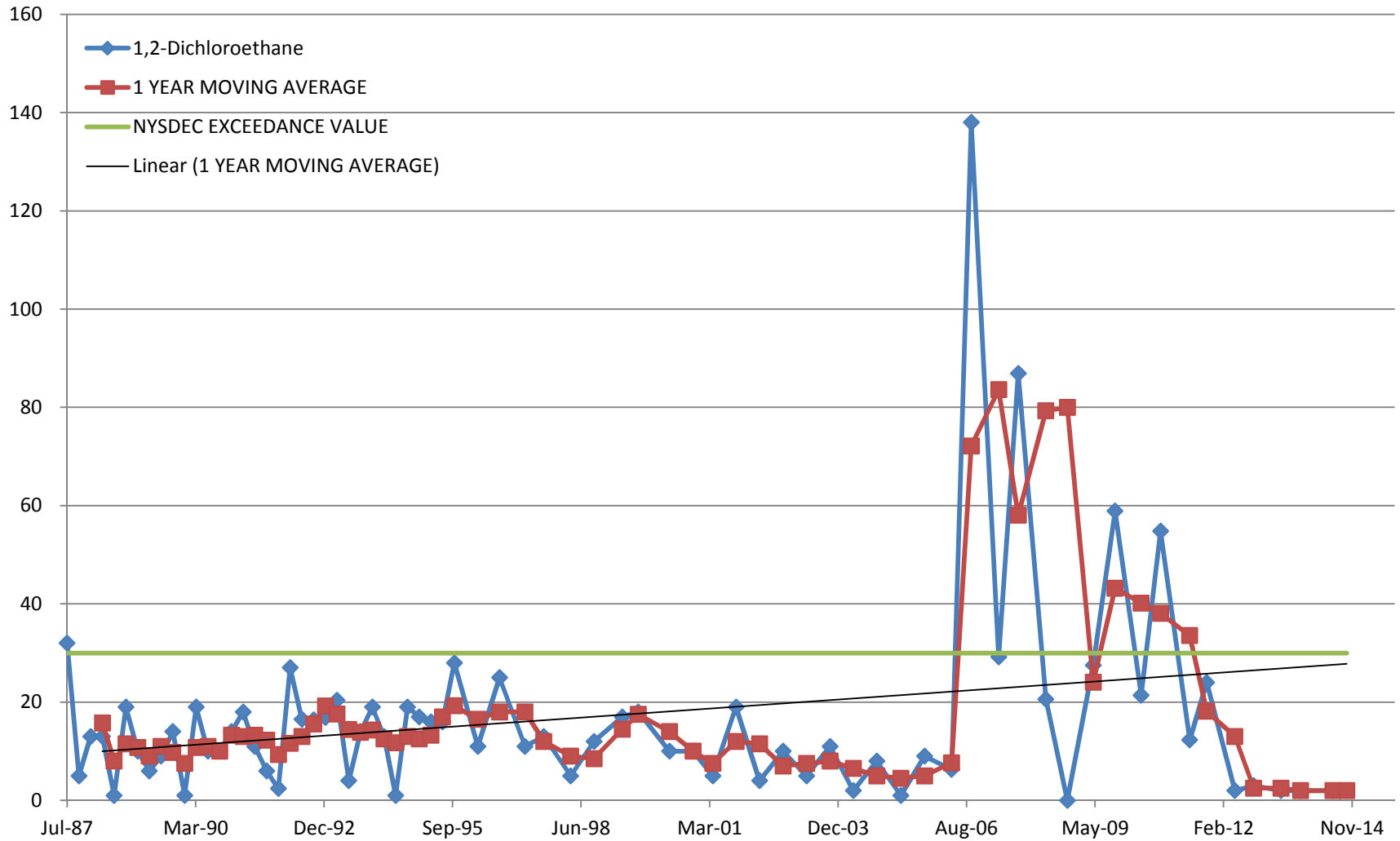
MOVING AVERAGE TREND TEST VDM-14 1,1,2,2-TETRACHLOROETHANE



WELL VDM - 14 : 1,1,2,2-TETRACHLOROETHANE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | | |
|----------------|----------|------------------|--------------|--------------------|------------|-----------|-----------------------|----|
| ----- | - | - | - | - | - | - | | |
| Oct-85 | 1 | 100 | 5 | TOTAL STE 61.49133 | | 1 | | |
| Jan-86 | 46 | 100 | 5 | TOTAL Sx 7.34962 | | 2 | | |
| Apr-86 | 38 | 100 | 5 | TOTAL MEA 51.24577 | | 3 | | |
| Jul-86 | 450 | 100 | 5 | TOTAL N 71 | 133.75 | 4 | | |
| Oct-86 | 97 | 100 | 5 | TOTAL df 70 | 157.75 | 5 | | |
| Jan-87 | 93 | 100 | 5 | | 169.50 | 6 | | |
| Apr-87 | 77 | 100 | 5 | | 179.25 | 7 | | |
| Jul-87 | 65 | 100 | 5 | | 83.00 | 8 | | |
| Oct-87 | 3 | 100 | 5 | | 59.50 | 9 | | |
| Jan-88 | 2 | 100 | 5 | | 36.75 | 10 | | |
| Apr-88 | 65 | 100 | 5 | | 33.75 | 11 | | |
| Jul-88 | 1 | 100 | 5 | | 17.75 | 12 | | |
| Oct-88 | | 100 | 5 | | 22.67 | 13 | | |
| Jan-89 | 48 | 100 | 5 | | 38.00 | 14 | | |
| Apr-89 | 47 | 100 | 5 | | 32.00 | 15 | | |
| Jul-89 | 2 | 100 | 5 | | 32.33 | 16 | | |
| Oct-89 | 1 | 100 | 5 | | 24.50 | 17 | | |
| Jan-90 | 2 | 100 | 5 | | 13.00 | 18 | | |
| Apr-90 | 24 | 100 | 5 | | 7.25 | 19 | | |
| Jul-90 | 54 | 100 | 5 | | 20.25 | 20 | | |
| Oct-90 | 11 | 100 | 5 | | 22.75 | 21 | | |
| Jan-91 | 1.25 | 100 | 5 | | 22.56 | 22 | | |
| Apr-91 | 19.6 | 100 | 5 | | 21.46 | 23 | | |
| Jul-91 | 24.4 | 100 | 5 | | 14.06 | 24 | | |
| Oct-91 | 1 | 100 | 5 | | 11.56 | 25 | | |
| Jan-92 | 3 | 100 | 5 | | 12.00 | 26 | | |
| Apr-92 | 3 | 100 | 5 | | 7.85 | 27 | | |
| Jul-92 | 39 | 100 | 5 | | 11.50 | 28 | | |
| Oct-92 | 9.3 | 100 | 5 | | 13.58 | 29 | | |
| Jan-93 | 11 | 100 | 5 | | 15.58 | 30 | | |
| Apr-93 | 17 | 100 | 5 | | 19.08 | 31 | | |
| Jul-93 | 1 | 100 | 5 | | 9.58 | 32 | | |
| Oct-93 | 1 | 100 | 5 | | 7.50 | 33 | | |
| Jan-94 | 14 | 100 | 5 | | 8.25 | 34 | | |
| Apr-94 | 16 | 100 | 5 | | 8.00 | 35 | | |
| Jul-94 | 18 | 100 | 5 | | 12.25 | 36 | | |
| Oct-94 | 15 | 100 | 5 | | 15.75 | 37 | | |
| Jan-95 | 8.6 | 100 | 5 | | 14.40 | 38 | | |
| Apr-95 | 38 | 100 | 5 | | 19.90 | 39 | | |
| Jul-95 | 36 | 100 | 5 | | 24.40 | 40 | | |
| Oct-95 | 81 | 100 | 2 | | 40.90 | 41 | | |
| Apr-96 | 10 | 100 | 10 | | 34.25 | 42 | | |
| Sep-96 | 81 | 100 | 10 | | 45.5 | 45.5 | 9/17/1996 semiannual | 43 |
| Apr-97 | 36 | 100 | 10 | | 58.5 | 58.5 | 4/3/1997 semiannual | 44 |
| Aug-97 | 120 | 100 | 100 | | 78 | 78 | 8/27/1997 semiannual | 45 |
| Mar-98 | 14 | 100 | 5 | | 67 | 67 | 3/24/1998 semiannual | 46 |
| Sep-98 | 120 | 100 | 5 | | 67 | 67 | 9/22/1998 semiannual | 47 |
| May-99 | 45 | 100 | 10 | | 82.5 | 82.5 | 5/11/1999 semiannual | 48 |
| Oct-99 | 128 | 100 | 10 | | 86.5 | 86.5 | 10/5/1999 semiannual | 49 |
| Nov-00 | 76 | 100 | 5 | | 102 | 102 | 11/28/2000 semiannual | 50 |
| Apr-01 | 30 | 100 | 5 | | 53 | 53 | 4/4/2001 semiannual | 51 |
| Oct-01 | 57 | 100 | 5 | | 43.5 | 43.5 | 10/18/2001 semiannual | 52 |
| Apr-02 | 10 | 100 | 5 | | 33.5 | 33.5 | 4/18/2002 semiannual | 53 |
| Oct-02 | 72 | 100 | 25 | | 41 | 41 | 10/3/2002 semiannual | 54 |
| Apr-03 | 42 | 100 | 10 | | 57 | 57 | 4/25/2003 semiannual | 55 |
| Oct-03 | 100 | 100 | 5 | | 71 | 71 | 10/3/2003 semiannual | 56 |
| Apr-04 | 39 | 100 | 10 | | 69.5 | 69.5 | 4/1/2004 semiannual | 57 |
| Oct-04 | 84 | 100 | 10 | | 61.5 | 61.5 | 10/19/2004 semiannual | 58 |
| Apr-05 | 46 | 100 | 10 | | 65 | 65 | 4/22/2005 semiannual | 59 |
| Oct-05 | 97 | 100 | 10 | | 71.5 | 71.5 | 10/7/2005 semiannual | 60 |
| May-06 | 129 | 100 | 10 | | 113 | 113 | 5/11/2006 semiannual | 61 |
| Oct-06 | 111 | 100 | 10 | | 120 | 120 | 10/18/2006 semiannual | 62 |
| May-07 | 113 | 100 | 10 | | 112 | 112 | 5/22/2007 semiannual | 63 |
| Oct-07 | 144 | 100 | 10 | | 128.5 | 128.5 | 10/25/2007 semiannual | 64 |
| Oct-08 | 84.7 | 100 | 10 | | 114.35 | 114.35 | 10/23/2008 semiannual | 65 |
| May-09 | 46.2 | 100 | 25 | | 65.45 | 65.45 | 5/12/2009 semiannual | 66 |
| Oct-09 | 55 | 100 | 25 | | 50.6 | 50.6 | 10/29/2009 semiannual | 67 |
| May-10 | 57 | 100 | 25 | | 56 | 56 | 5/20/2010 semiannual | 68 |
| Oct-10 | 5 | 100 | 25 | | 31 | 31 | 10/18/2010 semiannual | 69 |
| Jun-11 | 45.8 | 100 | 25 | | 25.4 | 25.4 | 6/2/2011 semiannual | 70 |
| Oct-11 | 80 | 100 | 50 | | 62.9 | 62.9 | 10/12/2011 semiannual | 71 |
| May-12 | 76.6 | 100 | 2 | | 78.3 | 78.3 | 5/18/2012 semiannual | 72 |
| Oct-12 | 136 | 100 | 2 | | 106.3 | 106.3 | 10/11/2012 semiannual | 73 |
| May-13 | 101 | 100 | 2 | | 118.5 | 118.5 | 5/17/2013 semiannual | 74 |
| Oct-13 | 88.7 | 100 | 2 | | 94.85 | 94.85 | 10/11/2013 semiannual | 75 |
| May-14 | 57.6 | 100 | 2 | | 73.15 | 73.15 | 5/5/2014 semiannual | 76 |
| Oct-14 | 96.2 | 100 | 2 | | 76.9 | 76.9 | 10/6/2014 semiannual | 77 |

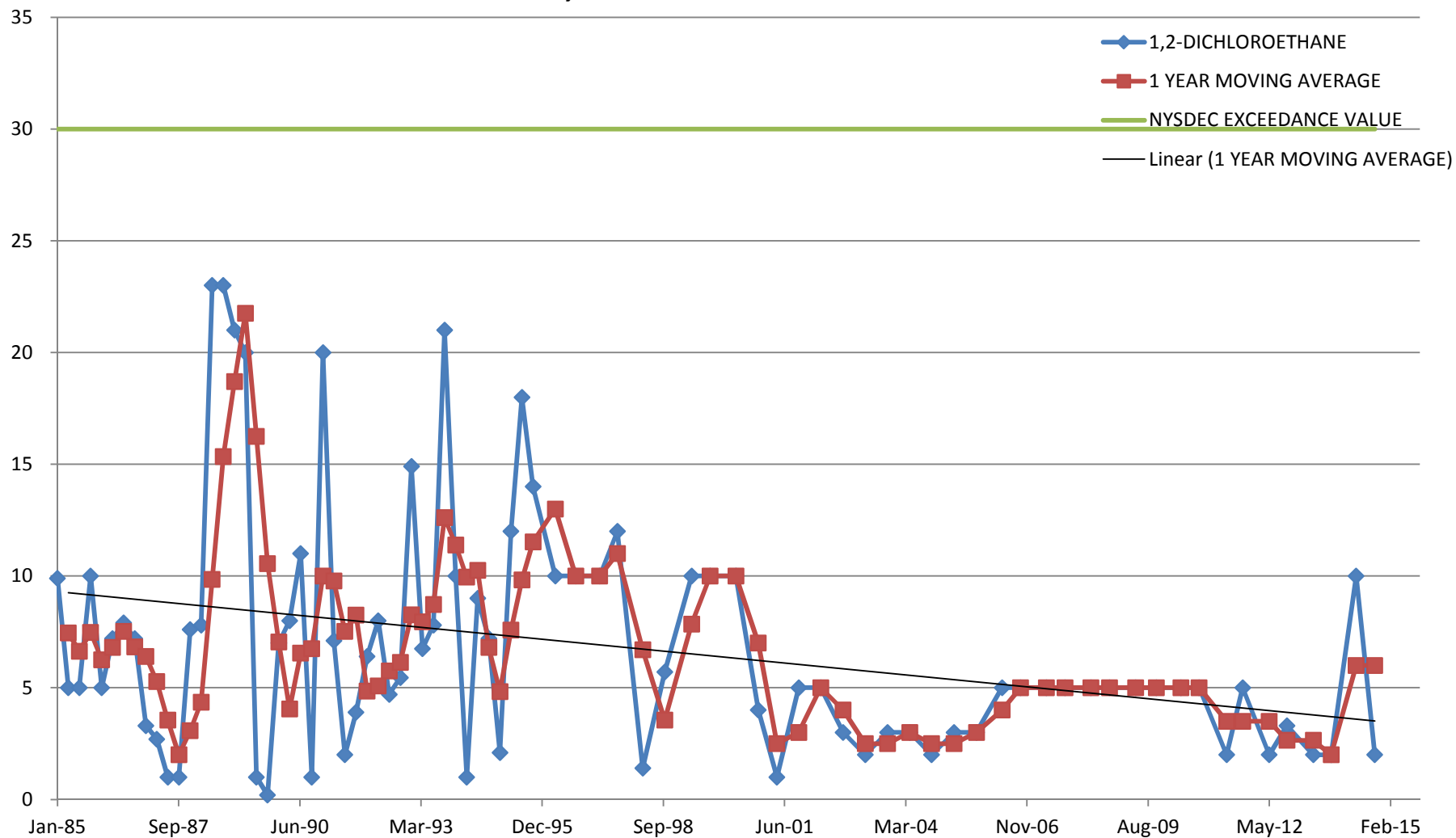
MOVING AVERAGE TREND TEST VDM-9 1,2-DICHLOROETHANE



WELL VDM - 9 : 1,2-DICHLOROETHANE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|---------------------|---------------|------------------------------|
| Jan-87 | | 30 | 5 | TOTAL STD 20.37444 | | 1 |
| Apr-87 | | 30 | 5 | TOTAL Sx 2.527139 | | 2 |
| Jul-87 | 32 | 30 | 5 | TOTAL MEAN 17.32576 | | 3 |
| Oct-87 | 5 | 30 | 5 | TOTAL N 66 | | 4 |
| Jan-88 | 13 | 30 | 5 | TOTAL df 65 | | 5 |
| Apr-88 | 13 | 30 | 5 | | 15.75 | 6 |
| Jul-88 | 1 | 30 | 5 | | 8.00 | 7 |
| Oct-88 | 19 | 30 | 5 | | 11.50 | 8 |
| Jan-89 | 10 | 30 | 5 | | 10.75 | 9 |
| Apr-89 | 6 | 30 | 5 | | 9.00 | 10 |
| Jul-89 | 9 | 30 | 5 | | 11.00 | 11 |
| Oct-89 | 14 | 30 | 5 | | 9.75 | 12 |
| Jan-90 | 1 | 30 | 5 | | 7.50 | 13 |
| Apr-90 | 19 | 30 | 5 | | 10.75 | 14 |
| Jul-90 | 10 | 30 | 5 | | 11.00 | 15 |
| Oct-90 | 10 | 30 | 5 | | 10.00 | 16 |
| Jan-91 | 14 | 30 | 5 | | 13.25 | 17 |
| Apr-91 | 18 | 30 | 5 | | 13.00 | 18 |
| Jul-91 | 11 | 30 | 5 | | 13.25 | 19 |
| Oct-91 | 6 | 30 | 5 | | 12.25 | 20 |
| Jan-92 | 2.4 | 30 | 5 | | 9.35 | 21 |
| Apr-92 | 27 | 30 | 5 | | 11.60 | 22 |
| Jul-92 | 16.5 | 30 | 5 | | 12.98 | 23 |
| Oct-92 | 16.4 | 30 | 5 | | 15.58 | 24 |
| Jan-93 | 16.9 | 30 | 5 | | 19.20 | 25 |
| Apr-93 | 20.4 | 30 | 5 | | 17.55 | 26 |
| Jul-93 | 4 | 30 | 5 | | 14.43 | 27 |
| Oct-93 | 14 | 30 | 5 | | 13.83 | 28 |
| Jan-94 | 19 | 30 | 5 | | 14.35 | 29 |
| Apr-94 | 13 | 30 | 5 | | 12.50 | 30 |
| Jul-94 | 1 | 30 | 5 | | 11.75 | 31 |
| Oct-94 | 19 | 30 | 5 | | 13.00 | 32 |
| Jan-95 | 17 | 30 | 5 | | 12.50 | 33 |
| Apr-95 | 16 | 30 | 5 | | 13.25 | 34 |
| Jul-95 | 16 | 30 | 5 | | 17.00 | 35 |
| Oct-95 | 28 | 30 | 2 | | 19.25 | 36 |
| Apr-96 | 11 | 30 | 2 | | 16.5 | 37 |
| Sep-96 | 25 | 30 | 10 | | 18 | 18 09/17/96 semiannual 38 |
| Apr-97 | 11 | 30 | 10 | | 18 | 18 04/03/97 semiannual 39 |
| Aug-97 | 13 | 30 | 10 | | 12 | 12 08/27/97 semiannual 40 |
| Mar-98 | 5 | 30 | 5 | | 9 | 9 03/24/98 semiannual 41 |
| Sep-98 | 12 | 30 | 5 | | 8.5 | 8.5 09/22/98 semiannual 42 |
| May-99 | 17 | 30 | 10 | | 14.5 | 14.5 05/11/99 semiannual 43 |
| Sep-99 | 18 | 30 | 10 | | 17.5 | 17.5 09/29/99 semiannual 44 |
| May-00 | 10 | 30 | 10 | | 14 | 14 05/16/00 semiannual 45 |
| Nov-00 | 10 | 30 | 5 | | 10 | 10 11/28/00 semiannual 46 |
| Apr-01 | 5 | 30 | 5 | | 7.5 | 7.5 04/04/01 semiannual 47 |
| Oct-01 | 19 | 30 | 5 | | 12 | 12 10/18/01 semiannual 48 |
| Apr-02 | 4 | 30 | 5 | | 11.5 | 11.5 04/18/02 semiannual 49 |
| Oct-02 | 10 | 30 | 5 | | 7 | 7 10/03/02 semiannual 50 |
| Apr-03 | 5 | 30 | 5 | | 7.5 | 7.5 04/25/03 semiannual 51 |
| Oct-03 | 11 | 30 | 5 | | 8 | 8 10/03/03 semiannual 52 |
| Apr-04 | 2 | 30 | 5 | | 6.5 | 6.5 04/01/04 semiannual 53 |
| Oct-04 | 8 | 30 | 5 | | 5 | 5 10/19/04 semiannual 54 |
| Apr-05 | 1 | 30 | 5 | | 4.5 | 4.5 04/22/05 semiannual 55 |
| Oct-05 | 9 | 30 | 5 | | 5 | 5 10/07/05 semiannual 56 |
| May-06 | 6.3 | 30 | 5 | | 7.65 | 7.65 05/11/06 semiannual 57 |
| Oct-06 | 138 | 30 | 5 | | 72.15 | 72.15 10/18/06 semiannual 58 |
| May-07 | 29.2 | 30 | 5 | | 83.6 | 83.6 05/22/07 semiannual 59 |
| Oct-07 | 86.9 | 30 | 5 | | 58.05 | 58.05 10/25/07 semiannual 60 |
| May-08 | 20.6 | 30 | 5 | | 79.3 | 79.3 05/13/08 semiannual 61 |
| Oct-08 | ns | 30 | ns | | 80 | 80 10/23/08 semiannual 62 |
| May-09 | 27.5 | 30 | 5 | | 24.05 | 24.05 05/12/09 semiannual 63 |
| Oct-09 | 58.9 | 30 | 5 | | 43.2 | 43.2 10/29/09 semiannual 64 |
| May-10 | 21.4 | 30 | 5 | | 40.15 | 40.15 05/20/10 semiannual 65 |
| Oct-10 | 54.8 | 30 | 5 | | 38.1 | 38.1 10/18/10 semiannual 66 |
| Jun-11 | 12.3 | 30 | 5 | | 33.55 | 33.55 06/02/11 semiannual 67 |
| Oct-11 | 24 | 30 | 5 | | 18.15 | 18.15 10/12/11 semiannual 68 |
| May-12 | 2 | 30 | 2 | | 13 | 13 05/18/12 semiannual 69 |
| Oct-12 | 3 | 30 | 2 | | 2.5 | 2.5 10/11/12 semiannual 70 |
| May-13 | 2 | 30 | 2 | | 2.5 | 2.5 05/17/13 semiannual 71 |
| Oct-13 | 2 | 30 | 2 | | 2 | 2 10/11/13 semiannual 72 |
| Jun-14 | 2 | 30 | 2 | | 2 | 2 05/05/14 semiannual 73 |
| Oct-14 | 2 | 30 | 2 | | 2 | 2 10/06/14 semiannual 74 |

MOVING AVERAGE TREND TEST VDM-10 1,2-DICHLOROETHANE



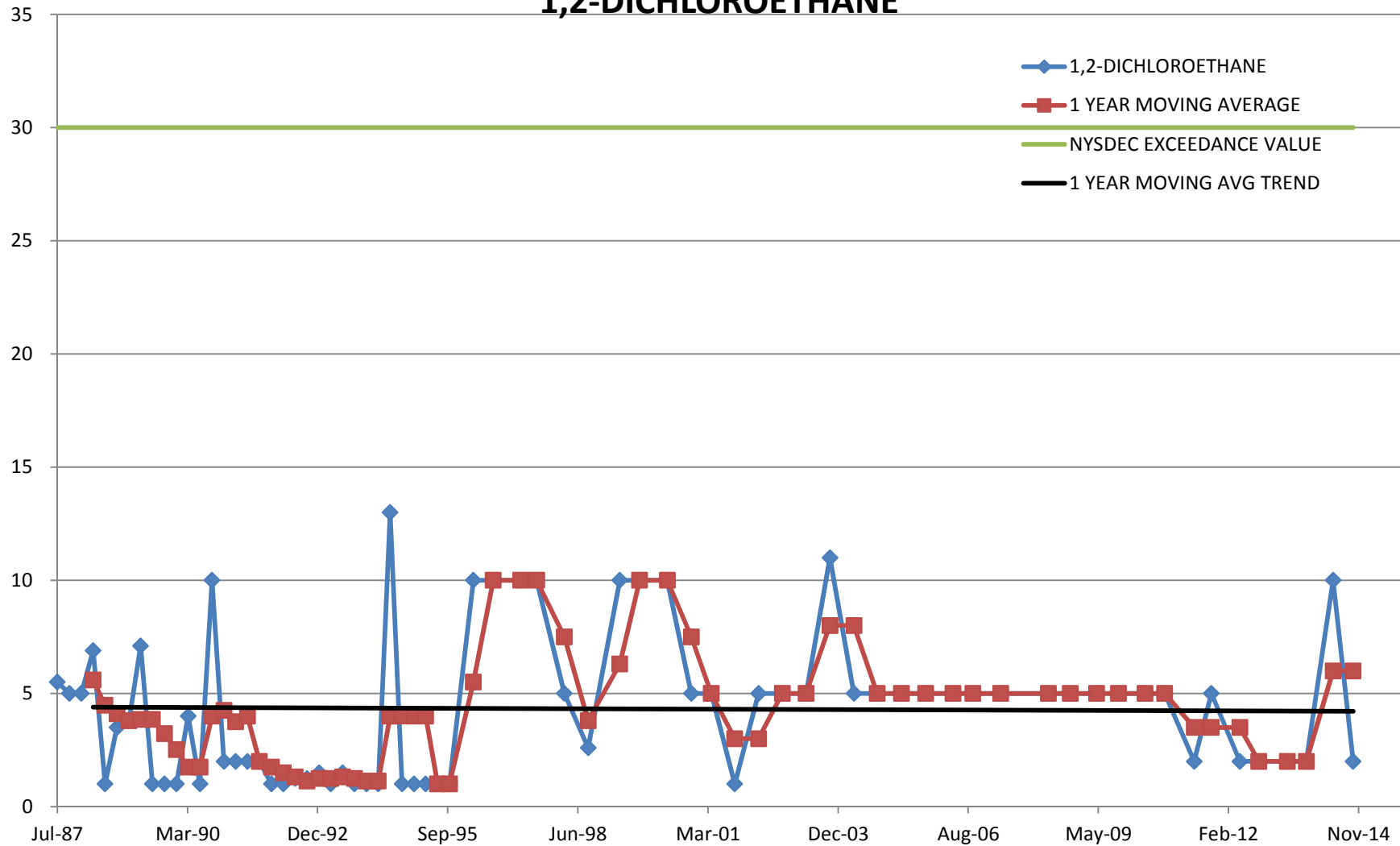
WELL VDM - 10 : 1,2-DICHLOROETHANE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVERAGE | EVENT NO. |
|-------------------|-------------|------------------------|----------------|---------------------|-------------------|-----------------------------|
| Jul-84 | | 30 | 5 | TOTAL STD 5.4393365 | | 1 |
| Oct-84 | | 30 | 5 | TOTAL Sx 0.6280805 | | 2 |
| Jan-85 | 9.9 | 30 | 5 | TOTAL MEAN 7.2 | | 3 |
| Apr-85 | 5 | 30 | 5 | TOTAL N 76 | 7.45 | 4 |
| Jul-85 | 5 | 30 | 5 | TOTAL df 75 | 6.63 | 5 |
| Oct-85 | 10 | 30 | 5 | | 7.48 | 6 |
| Jan-86 | 5 | 30 | 5 | | 6.25 | 7 |
| Apr-86 | 7.2 | 30 | 5 | | 6.80 | 8 |
| Jul-86 | 7.9 | 30 | 5 | | 7.53 | 9 |
| Oct-86 | 7.2 | 30 | 5 | | 6.83 | 10 |
| Jan-87 | 3.3 | 30 | 5 | | 6.40 | 11 |
| Apr-87 | 2.7 | 30 | 5 | | 5.28 | 12 |
| Jul-87 | 1 | 30 | 5 | | 3.55 | 13 |
| Oct-87 | 1 | 30 | 5 | | 2.00 | 14 |
| Jan-88 | 7.6 | 30 | 5 | | 3.08 | 15 |
| Apr-88 | 7.8 | 30 | 5 | | 4.35 | 16 |
| Jul-88 | 23 | 30 | 5 | | 9.85 | 17 |
| Oct-88 | 23 | 30 | 5 | | 15.35 | 18 |
| Jan-89 | 21 | 30 | 5 | | 18.70 | 19 |
| Apr-89 | 20 | 30 | 5 | | 21.75 | 20 |
| Jul-89 | 1 | 30 | 5 | | 16.25 | 21 |
| Oct-89 | 0.2 | 30 | 5 | | 10.55 | 22 |
| Jan-90 | 7 | 30 | 5 | | 7.05 | 23 |
| Apr-90 | 8 | 30 | 5 | | 4.05 | 24 |
| Jul-90 | 11 | 30 | 5 | | 6.55 | 25 |
| Oct-90 | 1 | 30 | 5 | | 6.75 | 26 |
| Jan-91 | 20 | 30 | 5 | | 10.00 | 27 |
| Apr-91 | 7.1 | 30 | 5 | | 9.78 | 28 |
| Jul-91 | 2 | 30 | 5 | | 7.53 | 29 |
| Oct-91 | 3.9 | 30 | 5 | | 8.25 | 30 |
| Jan-92 | 6.4 | 30 | 5 | | 4.85 | 31 |
| Apr-92 | 8 | 30 | 5 | | 5.08 | 32 |
| Jul-92 | 4.7 | 30 | 5 | | 5.75 | 33 |
| Oct-92 | 5.45 | 30 | 5 | | 6.14 | 34 |
| Jan-93 | 14.9 | 30 | 5 | | 8.26 | 35 |
| Apr-93 | 6.75 | 30 | 5 | | 7.95 | 36 |
| Jul-93 | 7.8 | 30 | 5 | | 8.73 | 37 |
| Oct-93 | 21 | 30 | 5 | | 12.61 | 38 |
| Jan-94 | 10 | 30 | 5 | | 11.39 | 39 |
| Apr-94 | 1 | 30 | 5 | | 9.95 | 40 |
| Jul-94 | 9 | 30 | 5 | | 10.25 | 41 |
| Oct-94 | 7.2 | 30 | 5 | | 6.80 | 42 |
| Jan-95 | 2.1 | 30 | 5 | | 4.83 | 43 |
| Apr-95 | 12 | 30 | 5 | | 7.58 | 44 |
| Jul-95 | 18 | 30 | 5 | | 9.83 | 45 |
| Oct-95 | 14 | 30 | 1 | | 11.53 | 46 |
| Apr-96 | 10 | 30 | 10 | | 13.00 | 47 |
| Sep-96 | 10 | 30 | 10 | | 10 | 10 09/17/96 semiannual 48 |
| Apr-97 | 10 | 30 | 10 | | 10 | 10 04/03/97 semiannual 49 |
| Aug-97 | 12 | 30 | 10 | | 11 | 11 08/27/97 semiannual 50 |
| Mar-98 | 1.4 | 30 | 5 | | 6.7 | 6.7 03/24/98 semiannual 51 |
| Sep-98 | 5.7 | 30 | 5 | | 3.55 | 3.55 09/22/98 semiannual 52 |
| May-99 | 10 | 30 | 10 | | 7.85 | 7.85 05/11/99 semiannual 53 |
| Oct-99 | 10 | 30 | 10 | | 10 | 10 10/05/99 semiannual 54 |
| May-00 | 10 | 30 | 10 | | 10 | 10 05/16/00 semiannual 55 |
| Nov-00 | 4 | 30 | 5 | | 7 | 7 11/28/00 semiannual 56 |
| Apr-01 | 1 | 30 | 5 | | 2.5 | 2.5 04/04/01 semiannual 57 |
| Oct-01 | 5 | 30 | 5 | | 3 | 3 10/18/01 semiannual 58 |
| Apr-02 | 5 | 30 | 5 | | 5 | 5 04/18/02 semiannual 59 |
| Oct-02 | 3 | 30 | 5 | | 4 | 4 10/03/02 semiannual 60 |
| Apr-03 | 2 | 30 | 5 | | 2.5 | 2.5 04/25/03 semiannual 61 |
| Oct-03 | 3 | 30 | 5 | | 2.5 | 2.5 10/03/03 semiannual 62 |
| Apr-04 | 3 | 30 | 5 | | 3 | 3 04/01/04 semiannual 63 |
| Oct-04 | 2 | 30 | 5 | | 2.5 | 2.5 10/19/04 semiannual 64 |
| Apr-05 | 3 | 30 | 5 | | 2.5 | 2.5 04/22/05 semiannual 65 |
| Oct-05 | 3 | 30 | 5 | | 3 | 3 10/07/05 semiannual 66 |
| May-06 | 5 | 30 | 5 | | 4 | 4 05/11/06 semiannual 67 |
| Oct-06 | 5 | 30 | 5 | | 5 | 5 10/18/06 semiannual 68 |
| May-07 | 5 | 30 | 5 | | 5 | 5 05/22/07 semiannual 69 |
| Oct-07 | 5 | 30 | 5 | | 5 | 5 10/25/07 semiannual 70 |
| May-08 | 5 | 30 | 5 | | 5 | 5 05/13/08 semiannual 71 |
| Oct-08 | 5 | 30 | 5 | | 5 | 5 10/23/08 semiannual 72 |
| May-09 | 5 | 30 | 5 | | 5 | 5 05/12/09 semiannual 73 |
| Oct-09 | 5 | 30 | 5 | | 5 | 5 10/29/09 semiannual 74 |
| May-10 | 5 | 30 | 5 | | 5 | 5 05/20/10 semiannual 75 |
| Oct-10 | 5 | 30 | 5 | | 5 | 5 10/18/10 semiannual 76 |
| Jun-11 | 2 | 30 | 2 | | 3.5 | 3.5 06/02/11 semiannual 77 |
| Oct-11 | 5 | 30 | 5 | | 3.5 | 3.5 10/12/11 semiannual 78 |
| May-12 | 2 | 30 | 2 | | 3.5 | 3.5 05/18/12 semiannual 79 |
| Oct-12 | 3.3 | 30 | 2 | | 2.65 | 2.65 10/11/12 semiannual 80 |
| May-13 | 2 | 30 | 2 | | 2.65 | 2.65 05/17/13 semiannual 81 |
| Oct-13 | 2 | 30 | 2 | | 2 | 2 10/11/13 semiannual 82 |
| May-14 | 10 | 30 | 2 | | 6 | 6 05/05/14 semiannual 83 |
| Oct-14 | 2 | 30 | 2 | | 6 | 6 10/06/14 semiannual 84 |

MOVING AVERAGE TREND TEST

VDM-11

1,2-DICHLOROETHANE



WELL VDM - 11 : 1,2-DICHLOROETHANE

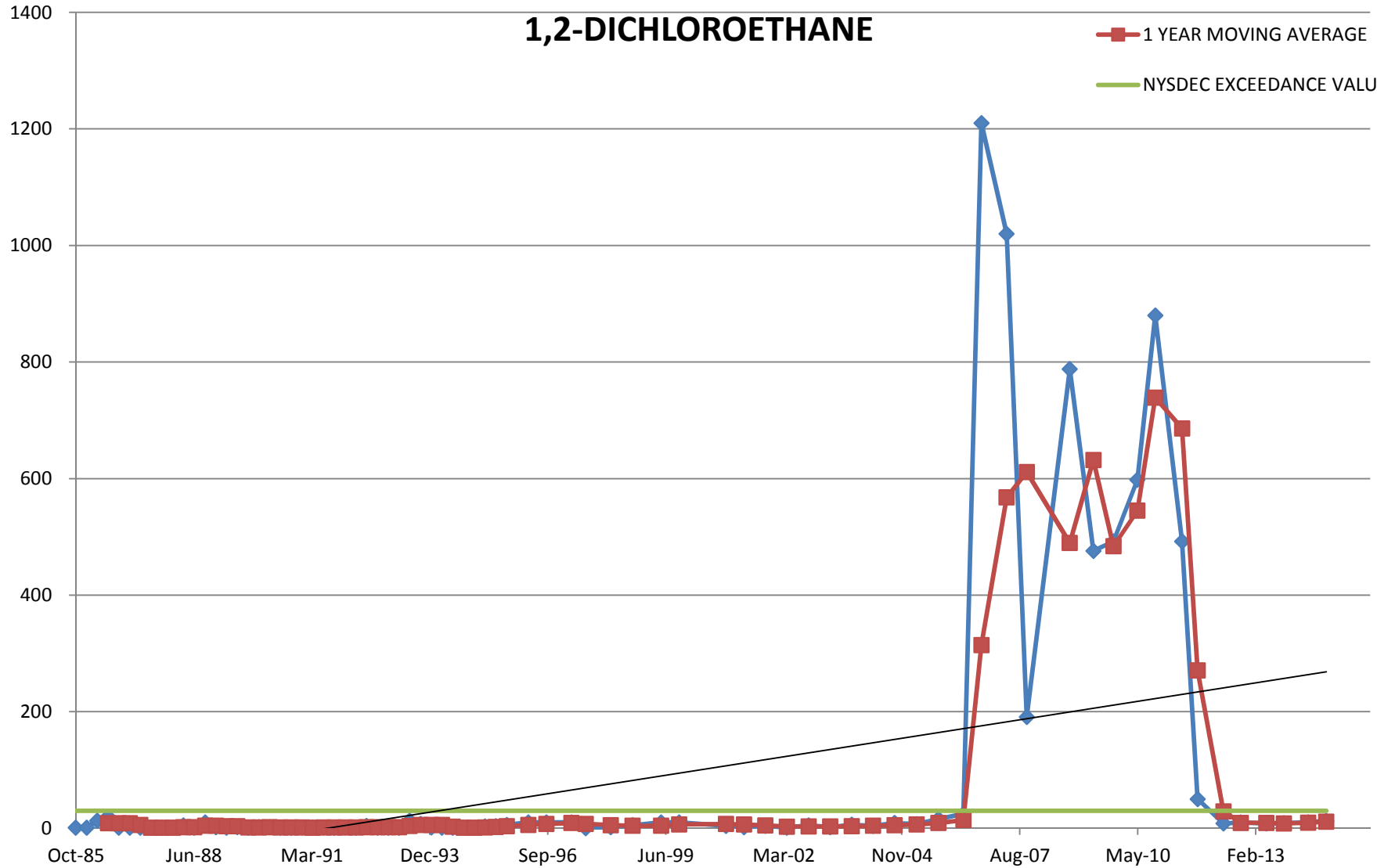
| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|--------------------------|-------------|------------------------|-----------------|-------------------|---------------|------------------------------|
| - | - | - | - | - | - | - |
| Jan-87 | | 30 | 5 | TOTAL STD 3.1678 | | 1 |
| Apr-87 | | 30 | 5 | TOTAL Sx 0.3929 | | 2 |
| Jul-87 | 5.5 | 30 | 5 | TOTAL MEAN 4.2712 | | 3 |
| Oct-87 | 5 | 30 | 5 | TOTAL N 66 | | 4 |
| Jan-88 | 5 | 30 | 5 | TOTAL df 65 | | 5 |
| Apr-88 | 6.9 | 30 | 5 | | 5.60 | 6 |
| Jul-88 | 1 | 30 | 5 | | 4.48 | 7 |
| Oct-88 | 3.5 | 30 | 5 | | 4.10 | 8 |
| Jan-89 | 3.8 | 30 | 5 | | 3.80 | 9 |
| Apr-89 | 7.1 | 30 | 5 | | 3.85 | 10 |
| Jul-89 | 1 | 30 | 5 | | 3.85 | 11 |
| Oct-89 | 1 | 30 | 5 | | 3.23 | 12 |
| Jan-90 | 1 | 30 | 5 | | 2.53 | 13 |
| Apr-90 | 4 | 30 | 5 | | 1.75 | 14 |
| Jul-90 | 1 | 30 | 5 | | 1.75 | 15 |
| Oct-90 | 10 | 30 | 5 | | 4.00 | 16 |
| Jan-91 | 2 | 30 | 5 | | 4.25 | 17 |
| Apr-91 | 2 | 30 | 5 | | 3.75 | 18 |
| Jul-91 | 2 | 30 | 5 | | 4.00 | 19 |
| Oct-91 | 2 | 30 | 5 | | 2.00 | 20 |
| Jan-92 | 1 | 30 | 5 | | 1.75 | 21 |
| Apr-92 | 1 | 30 | 5 | | 1.50 | 22 |
| Jul-92 | 1.25 | 30 | 5 | | 1.31 | 23 |
| Oct-92 | 1.25 | 30 | 5 | | 1.13 | 24 |
| Jan-93 | 1.5 | 30 | 5 | | 1.25 | 25 |
| Apr-93 | 1 | 30 | 5 | | 1.25 | 26 |
| Jul-93 | 1.5 | 30 | 5 | | 1.31 | 27 |
| Oct-93 | 1 | 30 | 5 | | 1.25 | 28 |
| Jan-94 | 1 | 30 | 5 | | 1.13 | 29 |
| Apr-94 | 1 | 30 | 5 | | 1.13 | 30 |
| Jul-94 | 13 | 30 | 5 | | 4.00 | 31 |
| Oct-94 | 1 | 30 | 5 | | 4.00 | 32 |
| Jan-95 | 1 | 30 | 5 | | 4.00 | 33 |
| Apr-95 | 1 | 30 | 5 | | 4.00 | 34 |
| Jul-95 | 1 | 30 | 5 | | 1.00 | 35 |
| Oct-95 | 1 | 30 | 1 | | 1.00 | 36 |
| Apr-96 | 10 | 30 | 10 | | 5.5 | 37 |
| Sep-96 | 10 | 30 | 10 | | 10 | 10 9/17/1996 semiannual 38 |
| Apr-97 | 10 | 30 | 10 | | 10 | 10 4/3/1997 semiannual 39 |
| Aug-97 | 10 | 30 | 10 | | 10 | 10 8/27/1997 semiannual 40 |
| Mar-98 | 5 | 30 | 5 | | 7.5 | 7.5 3/24/1998 semiannual 41 |
| Sep-98 | 2.6 | 30 | 5 | | 3.8 | 3.8 9/22/1998 semiannual 42 |
| May-99 | 10 | 30 | 10 | | 6.3 | 6.3 5/11/1999 semiannual 43 |
| Oct-99 | 10 | 30 | 10 | | 10 | 10 10/5/1999 semiannual 44 |
| May-00 | 10 | 30 | 10 | | 10 | 10 5/16/2000 semiannual 45 |
| Nov-00 | 5 | 30 | 5 | | 7.5 | 7.5 11/28/2000 semiannual 46 |
| Apr-01 | 5 | 30 | 5 | | 5 | 5 4/4/2001 semiannual 47 |
| Oct-01 | 1 | 30 | 5 | | 3 | 3 10/18/2001 semiannual 48 |
| Apr-02 | 5 | 30 | 5 | | 3 | 3 4/18/2002 semiannual 49 |
| Oct-02 | 5 | 30 | 5 | | 5 | 5 10/3/2002 semiannual 50 |
| Apr-03 | 5 | 30 | 5 | | 5 | 5 4/25/2003 semiannual 51 |
| Oct-03 | 11 | 30 | 5 | | 8 | 8 10/3/2003 semiannual 52 |
| Apr-04 | 5 | 30 | 5 | | 8 | 8 4/1/2004 semiannual 53 |
| Oct-04 | 5 | 30 | 5 | | 5 | 5 10/19/2004 semiannual 54 |
| Apr-05 | 5 | 30 | 5 | | 5 | 5 4/22/2005 semiannual 55 |
| Oct-05 | 5 | 30 | 5 | | 5 | 5 10/7/2005 semiannual 56 |
| May-06 | 5 | 30 | 5 | | 5 | 5 5/11/2006 semiannual 57 |
| Oct-06 | 5 | 30 | 5 | | 5 | 5 10/18/2006 semiannual 58 |
| May-07 | 5 | 30 | 5 | | 5 | 5 5/22/2007 semiannual 59 |
| May-08 | 5 | 30 | 5 | | 5 | 5 5/13/2008 semiannual 60 |
| Oct-08 | 5 | 30 | 5 | | 5 | 5 10/23/2008 semiannual 61 |
| May-09 | 5 | 30 | 5 | | 5 | 5 5/12/2009 semiannual 62 |
| Oct-09 | 5 | 30 | 5 | | 5 | 5 10/29/2009 semiannual 63 |
| May-10 | 5 | 30 | 5 | | 5 | 5 5/20/2010 semiannual 64 |
| Oct-10 | 5 | 30 | 5 | | 5 | 5 10/18/2010 semiannual 65 |
| Jun-11 | 2 | 30 | 2 | | 3.5 | 3.5 6/2/2011 semiannual 66 |
| Oct-11 | 5 | 30 | 5 | | 3.5 | 3.5 10/12/2011 semiannual 67 |
| May-12 | 2 | 30 | 2 | | 3.5 | 3.5 5/18/2012 semiannual 68 |
| Oct-12 | 2 | 30 | 2 | | 2 | 2 10/11/2012 semiannual 69 |
| May-13 | 2 | 30 | 2 | | 2 | 2 5/17/2013 semiannual 70 |
| Oct-13 | 2 | 30 | 2 | | 2 | 2 10/11/2013 semiannual 71 |
| May-14 | 10 | 30 | 10 | | 6 | 6 5/5/2014 semiannual 72 |
| Oct-14 | 2 | 30 | 2 | | 6 | 6 10/6/2014 semiannual 73 |

MOVING AVERAGE TREND TEST

VDM-14

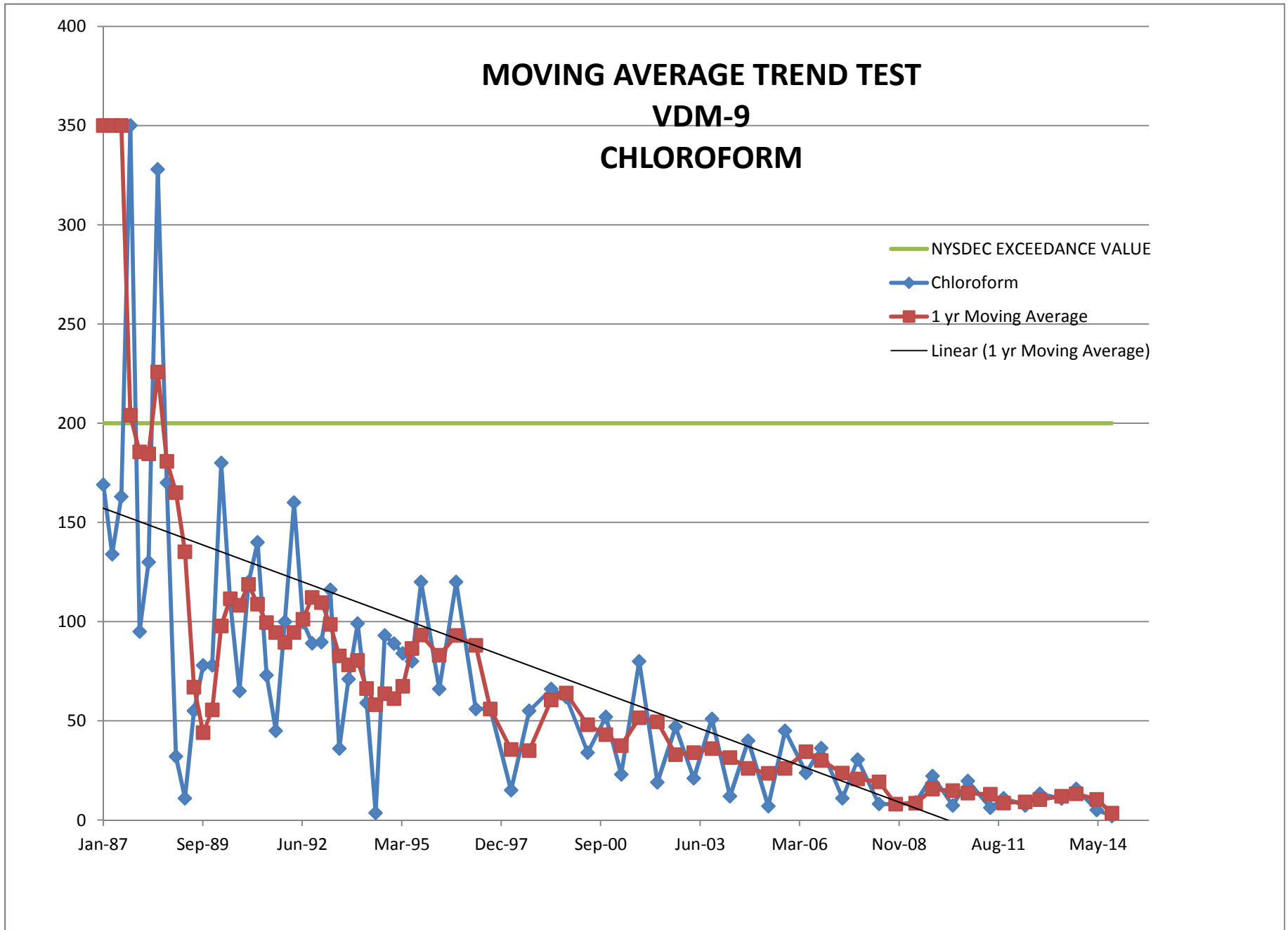
1,2-DICHLOROETHANE

- ◆ 1,2-DICHLOROETHANE
- 1 YEAR MOVING AVERAGE
- NYSDEC EXCEEDANCE VALUE



WELL VDM - 14 : 1,2-DICHLOROETHANE

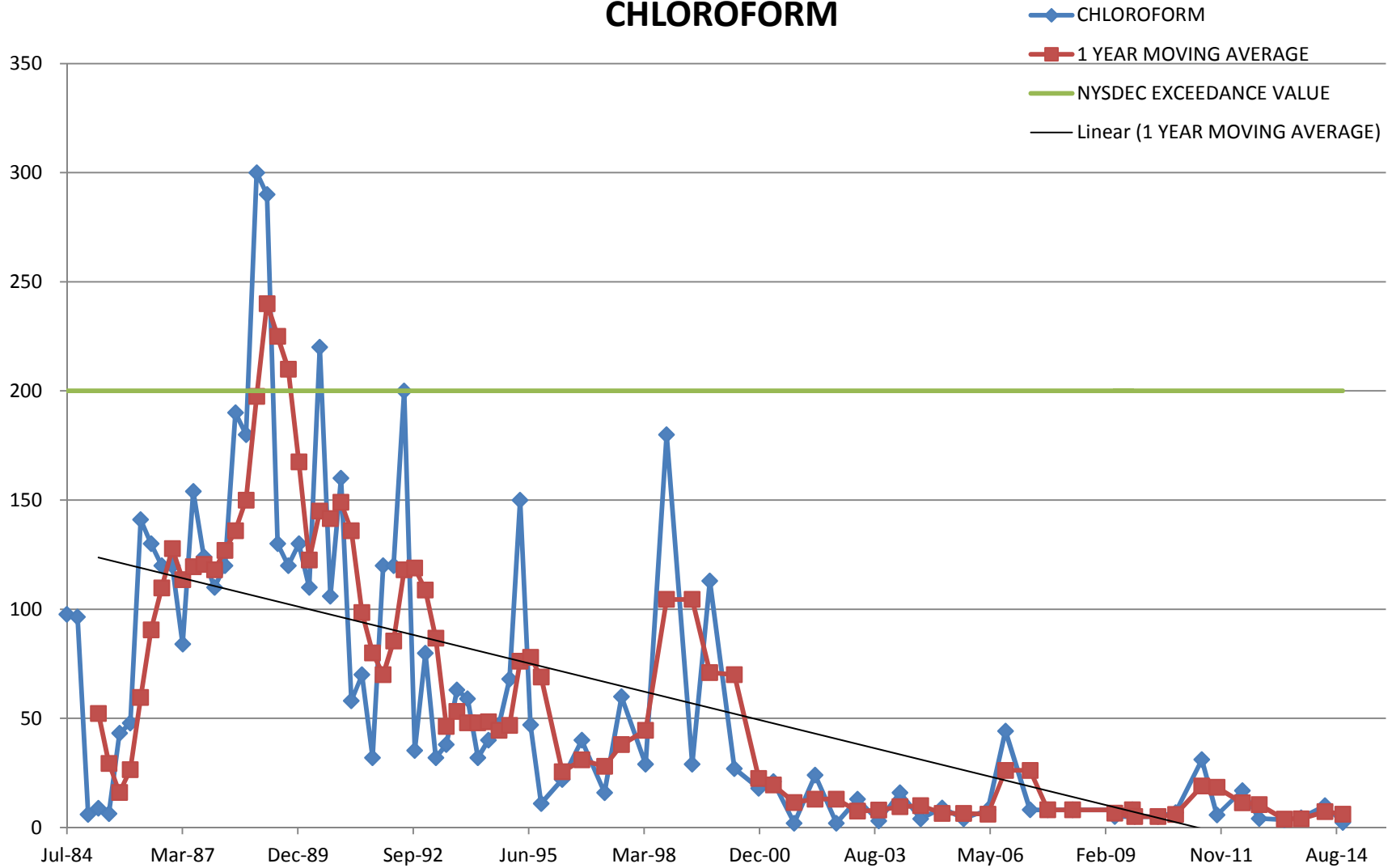
| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|----------------|----------|------------------|--------------|--------------------|------------|-----------|
| Oct-85 | 1 | 30 | 5 | TOTAL STI 248.0113 | - | 1 |
| Jan-86 | 1 | 30 | 5 | TOTAL Sx 29.43352 | - | 2 |
| Apr-86 | 13 | 30 | 5 | TOTAL MEA 89.84444 | - | 3 |
| Jul-86 | 20 | 30 | 5 | TOTAL N 72 | 8.75 | 4 |
| Oct-86 | 1 | 30 | 5 | TOTAL df 71 | 8.75 | 5 |
| Jan-87 | 1 | 30 | 5 | | 8.75 | 6 |
| Apr-87 | 1 | 30 | 5 | | 5.75 | 7 |
| Jul-87 | 1 | 30 | 5 | | 1.00 | 8 |
| Oct-87 | 1 | 30 | 5 | | 1.00 | 9 |
| Jan-88 | 1 | 30 | 5 | | 1.00 | 10 |
| Apr-88 | 5 | 30 | 5 | | 2.00 | 11 |
| Jul-88 | 1 | 30 | 5 | | 2.00 | 12 |
| Oct-88 | 10 | 30 | 5 | | 4.25 | 13 |
| Jan-89 | 2 | 30 | 5 | | 4.50 | 14 |
| Apr-89 | 1 | 30 | 5 | | 3.50 | 15 |
| Jul-89 | 2 | 30 | 5 | | 3.75 | 16 |
| Oct-89 | 1 | 30 | 5 | | 1.50 | 17 |
| Jan-90 | 2 | 30 | 5 | | 1.50 | 18 |
| Apr-90 | 2 | 30 | 5 | | 1.75 | 19 |
| Jul-90 | 1 | 30 | 5 | | 1.50 | 20 |
| Oct-90 | 1 | 30 | 5 | | 1.50 | 21 |
| Jan-91 | 1.25 | 30 | 5 | | 1.31 | 22 |
| Apr-91 | 1.25 | 30 | 5 | | 1.13 | 23 |
| Jul-91 | 1.5 | 30 | 5 | | 1.25 | 24 |
| Oct-91 | 1 | 30 | 5 | | 1.25 | 25 |
| Jan-92 | 1.5 | 30 | 5 | | 1.31 | 26 |
| Apr-92 | 1 | 30 | 5 | | 1.25 | 27 |
| Jul-92 | 3.8 | 30 | 5 | | 1.83 | 28 |
| Oct-92 | 1 | 30 | 5 | | 1.83 | 29 |
| Jan-93 | 1 | 30 | 5 | | 1.70 | 30 |
| Apr-93 | 1 | 30 | 5 | | 1.70 | 31 |
| Jul-93 | 13 | 30 | 5 | | 4.00 | 32 |
| Oct-93 | 7.3 | 30 | 5 | | 5.58 | 33 |
| Jan-94 | 1.6 | 30 | 5 | | 5.73 | 34 |
| Apr-94 | 1 | 30 | 5 | | 5.73 | 35 |
| Jul-94 | 1 | 30 | 5 | | 2.73 | 36 |
| Oct-94 | 1.1 | 30 | 5 | | 1.18 | 37 |
| Jan-95 | 1 | 30 | 5 | | 1.03 | 38 |
| Apr-95 | 3.3 | 30 | 5 | | 1.60 | 39 |
| Jul-95 | 3.5 | 30 | 5 | | 2.23 | 40 |
| Oct-95 | 5.9 | 30 | 2 | | 3.43 | 41 |
| Apr-96 | 10 | 30 | 10 | | 5.68 | 42 |
| Sep-96 | 10 | 30 | 10 | | 7.35 | 43 |
| Apr-97 | 10 | 30 | 10 | | 8.98 | 44 |
| Aug-97 | ND* | 30 | 100 | | 7.50 | 45 |
| Mar-98 | 1.9 | 30 | 5 | | 5.48 | 46 |
| Sep-98 | 5.1 | 30 | 5 | | 4.25 | 47 |
| May-99 | 10 | 30 | 10 | | 4.25 | 48 |
| Oct-99 | 10 | 30 | 10 | | 6.75 | 49 |
| Nov-00 | 4 | 30 | 5 | | 7.28 | 50 |
| Apr-01 | 2 | 30 | 5 | | 6.50 | 51 |
| Oct-01 | 4 | 30 | 5 | | 5.00 | 52 |
| Apr-02 | 1 | 30 | 5 | | 2.75 | 53 |
| Oct-02 | 5 | 30 | 25 | | 3.00 | 54 |
| Apr-03 | 2 | 30 | 10 | | 3.00 | 55 |
| Oct-03 | 6 | 30 | 5 | | 3.50 | 56 |
| Apr-04 | 4 | 30 | 10 | | 4.25 | 57 |
| Oct-04 | 9 | 30 | 10 | | 5.25 | 58 |
| Apr-05 | 7 | 30 | 10 | | 6.50 | 59 |
| Oct-05 | 16 | 30 | 10 | | 9.00 | 60 |
| May-06 | 24.6 | 30 | 10 | | 14.15 | 61 |
| Oct-06 | 1210 | 30 | 10 | | 314.40 | 62 |
| May-07 | 1020 | 30 | 10 | | 567.65 | 63 |
| Oct-07 | 191 | 30 | 10 | | 611.40 | 64 |
| Oct-08 | 788 | 30 | 10 | | 489.50 | 65 |
| May-09 | 476 | 30 | 25 | | 632.00 | 66 |
| Oct-09 | 492 | 30 | 25 | | 484.00 | 67 |
| May-10 | 598 | 30 | 25 | | 545.00 | 68 |
| Oct-10 | 880 | 30 | 25 | | 739.00 | 69 |
| Jun-11 | 492 | 30 | 25 | | 686.00 | 70 |
| Oct-11 | 50 | 30 | 50 | | 271.00 | 71 |
| May-12 | 8.2 | 30 | 2 | | 29.10 | 72 |
| Oct-12 | 10.2 | 30 | 2 | | 9.20 | 73 |
| May-13 | 8.1 | 30 | 2 | | 9.15 | 74 |
| Oct-13 | 8.7 | 30 | 2 | | 8.40 | 75 |
| May-14 | 10 | 30 | 10 | | 9.35 | 76 |
| Oct-14 | 12.6 | 30 | 2 | | 11.30 | 77 |



WELL VDM - 9 : CHLOROFORM

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATS | 1 YEAR MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|---------------------|-------------------------|------------------------------|
| Jan-87 | 169 | 200 | 8 | TOTAL STD 65.47997 | 350.00 | 1 |
| Apr-87 | 134 | 200 | 8 | TOTAL Sx 7.999651 | 350.00 | 2 |
| Jul-87 | 163 | 200 | 8 | TOTAL MEAN 74.04265 | 350.00 | 3 |
| Oct-87 | 350 | 200 | 8 | TOTAL N 68 | 204.00 | 4 |
| Jan-88 | 95 | 200 | 8 | TOTAL df 67 | 185.50 | 5 |
| Apr-88 | 130 | 200 | 8 | | 184.50 | 6 |
| Jul-88 | 328 | 200 | 8 | | 225.75 | 7 |
| Oct-88 | 170 | 200 | 8 | | 180.75 | 8 |
| Jan-89 | 32 | 200 | 8 | | 165.00 | 9 |
| Apr-89 | 11 | 200 | 8 | | 135.25 | 10 |
| Jul-89 | 55 | 200 | 8 | | 67.00 | 11 |
| Oct-89 | 78 | 200 | 8 | | 44.00 | 12 |
| Jan-90 | 78 | 200 | 8 | | 55.50 | 13 |
| Apr-90 | 180 | 200 | 8 | | 97.75 | 14 |
| Jul-90 | 110 | 200 | 8 | | 111.50 | 15 |
| Oct-90 | 65 | 200 | 8 | | 108.25 | 16 |
| Jan-91 | 120 | 200 | 8 | | 118.75 | 17 |
| Apr-91 | 140 | 200 | 8 | | 108.75 | 18 |
| Jul-91 | 73 | 200 | 8 | | 99.50 | 19 |
| Oct-91 | 45 | 200 | 8 | | 94.50 | 20 |
| Jan-92 | 100 | 200 | 8 | | 89.50 | 21 |
| Apr-92 | 160 | 200 | 8 | | 94.50 | 22 |
| Jul-92 | 99.7 | 200 | 8 | | 101.18 | 23 |
| Oct-92 | 89.1 | 200 | 8 | | 112.20 | 24 |
| Jan-93 | 89.6 | 200 | 8 | | 109.60 | 25 |
| Apr-93 | 116 | 200 | 8 | | 98.60 | 26 |
| Jul-93 | 36 | 200 | 8 | | 82.68 | 27 |
| Oct-93 | 71 | 200 | 8 | | 78.15 | 28 |
| Jan-94 | 99 | 200 | 8 | | 80.50 | 29 |
| Apr-94 | 59 | 200 | 8 | | 66.25 | 30 |
| Jul-94 | 4 | 200 | 8 | | 58.15 | 31 |
| Oct-94 | 93 | 200 | 8 | | 63.65 | 32 |
| Jan-95 | 89 | 200 | 8 | | 61.15 | 33 |
| Apr-95 | 84 | 200 | 8 | | 67.40 | 34 |
| Jul-95 | 80 | 200 | 8 | | 86.50 | 35 |
| Oct-95 | 120 | 200 | 8 | | 93.25 | 36 |
| Apr-96 | 66 | 200 | 8 | | 83 | 83 04/01/96 37 |
| Sep-96 | 120 | 200 | 10 | | 93 | 93 09/17/96 semiannual 38 |
| Apr-97 | 56 | 200 | 10 | | 88 | 88 04/03/97 semiannual 39 |
| Aug-97 | 56 | 200 | 10 | | 56 | 56 08/27/97 semiannual 40 |
| Mar-98 | 15 | 200 | 5 | | 35.5 | 35.5 03/24/98 Semiannual 41 |
| Sep-98 | 55 | 200 | 5 | | 35 | 35 09/22/98 Semiannual 42 |
| May-99 | 66 | 200 | 10 | | 60.5 | 60.5 05/11/99 Semiannual 43 |
| Sep-99 | 62 | 200 | 10 | | 64 | 64 09/29/99 Semiannual 44 |
| May-00 | 34 | 200 | 10 | | 48 | 48 05/16/00 Semiannual 45 |
| Nov-00 | 52 | 200 | 5 | | 43 | 43 11/28/00 Semiannual 46 |
| Apr-01 | 23 | 200 | 5 | | 37.5 | 37.5 04/04/01 Semiannual 47 |
| Oct-01 | 80 | 200 | 5 | | 51.5 | 51.5 10/18/01 Semiannual 48 |
| Apr-02 | 19 | 200 | 5 | | 49.5 | 49.5 04/18/02 semiannual 49 |
| Oct-02 | 47 | 200 | 5 | | 33 | 33 10/03/02 Semiannual 50 |
| Apr-03 | 21 | 200 | 5 | | 34 | 34 04/25/03 Semiannual 51 |
| Oct-03 | 51 | 200 | 5 | | 36 | 36 10/03/03 Semiannual 52 |
| Apr-04 | 12 | 200 | 5 | | 31.5 | 31.5 04/01/04 Semiannual 53 |
| Oct-04 | 40 | 200 | 5 | | 26 | 26 10/19/04 Semiannual 54 |
| Apr-05 | 7 | 200 | 5 | | 23.5 | 23.5 04/22/05 Semiannual 55 |
| Oct-05 | 45 | 200 | 5 | | 26 | 26 10/07/05 Semiannual 56 |
| May-06 | 23.8 | 200 | 5 | | 34.4 | 34.4 05/11/06 Semiannual 57 |
| Oct-06 | 36.2 | 200 | 5 | | 30 | 30 10/18/06 Semiannual 58 |
| May-07 | 11 | 200 | 5 | | 23.6 | 23.6 05/22/07 Semiannual 59 |
| Oct-07 | 30.4 | 200 | 5 | | 20.7 | 20.7 10/25/07 Semiannual 60 |
| May-08 | 8.1 | 200 | 5 | | 19.25 | 19.25 05/13/08 Semiannual 61 |
| Oct-08 | 8 | 200 | 5 | | 8.05 | 8.05 10/23/08 Semiannual 62 |
| May-09 | 8.9 | 200 | 5 | | 8.45 | 8.45 05/12/09 Semiannual 63 |
| Oct-09 | 22.2 | 200 | 5 | | 15.55 | 15.55 10/29/09 Semiannual 64 |
| May-10 | 7.36 | 200 | 5 | | 14.78 | 14.78 05/20/10 Semiannual 65 |
| Oct-10 | 19.7 | 200 | 5 | | 13.53 | 13.53 10/18/10 Semiannual 66 |
| Jun-11 | 6.24 | 200 | 5 | | 12.97 | 12.97 06/02/11 Semiannual 67 |
| Oct-11 | 11 | 200 | 5 | | 8.62 | 8.62 10/12/11 Semiannual 68 |
| May-12 | 7.3 | 200 | 2 | | 9.15 | 9.15 05/18/12 Semiannual 69 |
| Oct-12 | 13.2 | 200 | 2 | | 10.25 | 10.25 10/11/12 semiannual 70 |
| May-13 | 10.8 | 200 | 2 | | 12 | 12 05/17/13 semiannual 71 |
| Oct-13 | 15.7 | 200 | 2 | | 13.25 | 13.25 10/11/13 semiannual 72 |
| May-14 | 5 | 200 | 2 | | 10.35 | 10.35 05/06/14 semiannual 73 |
| Oct-14 | 2 | 200 | 2 | | 3.5 | 3.5 10/06/14 semiannual 74 |

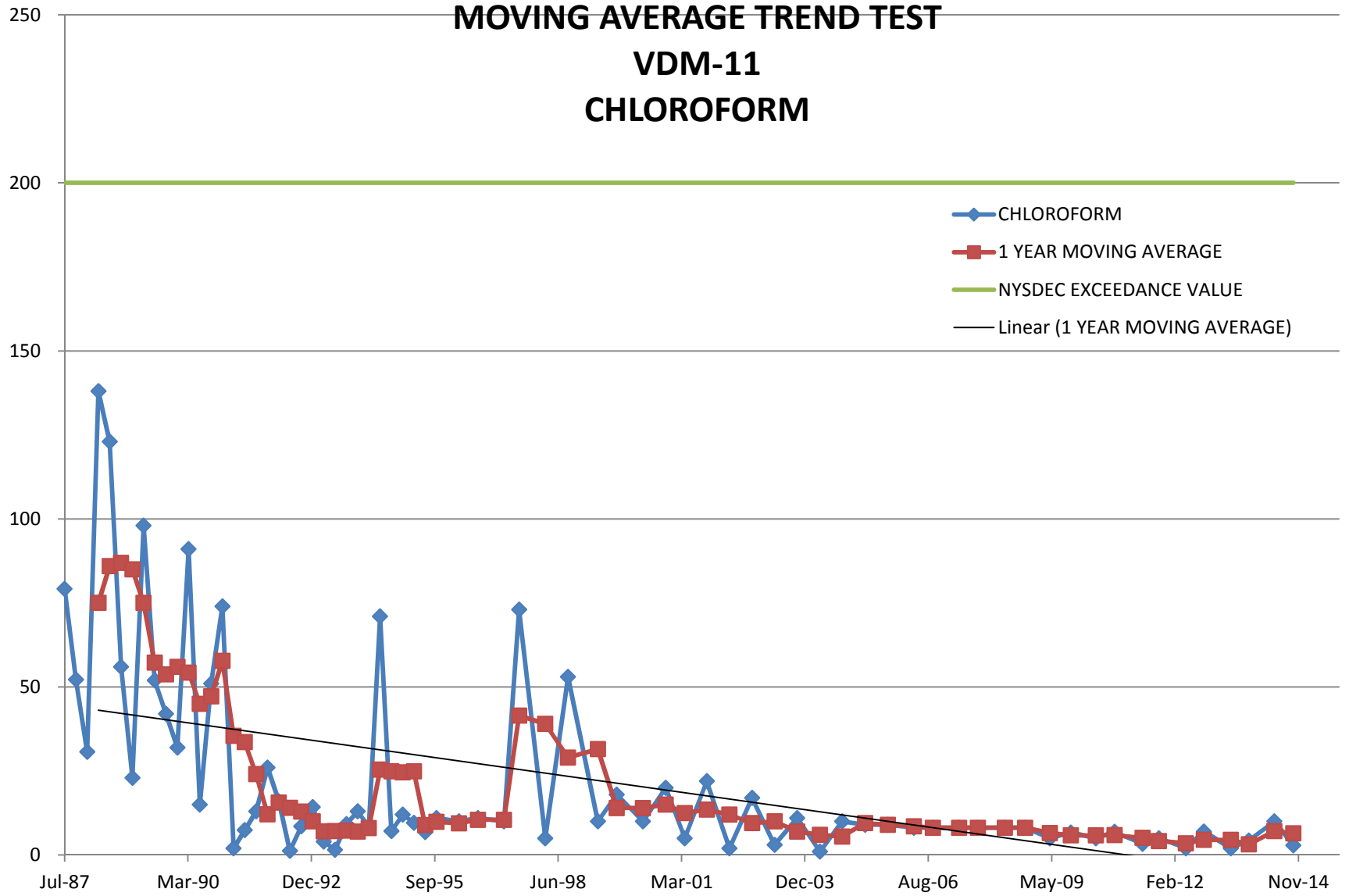
MOVING AVERAGE TREND TEST VDM-10 CHLOROFORM



WELL VDM - 10 : CHLOROFORM

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVERAGE | EVENT NO. |
|-------------------|-------------|------------------------|----------------|----------------------|-------------------|------------------------------|
| Jul-84 | 97.6 | 200 | 8 | TOTAL STD 68.054206 | | 1 |
| Oct-84 | 96.46 | 200 | 8 | TOTAL Sx 7.7554965 | | 2 |
| Jan-85 | 5.97 | 200 | 8 | TOTAL MEAN 69.521667 | | 3 |
| Apr-85 | 8.8 | 200 | 8 | TOTAL N 78 | 52.21 | 4 |
| Jul-85 | 6.3 | 200 | 8 | TOTAL df 77 | 29.38 | 5 |
| Oct-85 | 43.2 | 200 | 8 | | 16.07 | 6 |
| Jan-86 | 47.8 | 200 | 8 | | 26.53 | 7 |
| Apr-86 | 141 | 200 | 8 | | 59.58 | 8 |
| Jul-86 | 130 | 200 | 8 | | 90.50 | 9 |
| Oct-86 | 120 | 200 | 8 | | 109.70 | 10 |
| Jan-87 | 120 | 200 | 8 | | 127.75 | 11 |
| Apr-87 | 84 | 200 | 8 | | 113.50 | 12 |
| Jul-87 | 154 | 200 | 8 | | 119.50 | 13 |
| Oct-87 | 124 | 200 | 8 | | 120.50 | 14 |
| Jan-88 | 110 | 200 | 8 | | 118.00 | 15 |
| Apr-88 | 120 | 200 | 8 | | 127.00 | 16 |
| Jul-88 | 190 | 200 | 8 | | 136.00 | 17 |
| Oct-88 | 180 | 200 | 8 | | 150.00 | 18 |
| Jan-89 | 300 | 200 | 8 | | 197.50 | 19 |
| Apr-89 | 290 | 200 | 8 | | 240.00 | 20 |
| Jul-89 | 130 | 200 | 8 | | 225.00 | 21 |
| Oct-89 | 120 | 200 | 8 | | 210.00 | 22 |
| Jan-90 | 130 | 200 | 8 | | 167.50 | 23 |
| Apr-90 | 110 | 200 | 8 | | 122.50 | 24 |
| Jul-90 | 220 | 200 | 8 | | 145.00 | 25 |
| Oct-90 | 106 | 200 | 8 | | 141.50 | 26 |
| Jan-91 | 160 | 200 | 8 | | 149.00 | 27 |
| Apr-91 | 58 | 200 | 8 | | 136.00 | 28 |
| Jul-91 | 70 | 200 | 8 | | 98.50 | 29 |
| Oct-91 | 32 | 200 | 8 | | 80.00 | 30 |
| Jan-92 | 120 | 200 | 8 | | 70.00 | 31 |
| Apr-92 | 120 | 200 | 8 | | 85.50 | 32 |
| Jul-92 | 200 | 200 | 8 | | 118.00 | 33 |
| Oct-92 | 35.3 | 200 | 8 | | 118.83 | 34 |
| Jan-93 | 79.9 | 200 | 8 | | 108.80 | 35 |
| Apr-93 | 32 | 200 | 8 | | 86.80 | 36 |
| Jul-93 | 38 | 200 | 8 | | 46.30 | 37 |
| Oct-93 | 63 | 200 | 8 | | 53.23 | 38 |
| Jan-94 | 59 | 200 | 8 | | 48.00 | 39 |
| Apr-94 | 32 | 200 | 8 | | 48.00 | 40 |
| Jul-94 | 40 | 200 | 8 | | 48.50 | 41 |
| Oct-94 | 47 | 200 | 8 | | 44.50 | 42 |
| Jan-95 | 68 | 200 | 8 | | 46.75 | 43 |
| Apr-95 | 150 | 200 | 8 | | 76.25 | 44 |
| Jul-95 | 47 | 200 | 8 | | 78.00 | 45 |
| Oct-95 | 11 | 200 | 4 | | 69.00 | 46 |
| Apr-96 | 22 | 200 | 4 | | 25.5 | 47 |
| Sep-96 | 40 | 200 | 10 | | 31 | 31 09/17/96 semiannual 48 |
| Apr-97 | 16 | 200 | 10 | | 28 | 28 04/03/97 semiannual 49 |
| Aug-97 | 60 | 200 | 10 | | 38 | 38 08/27/97 semiannual 50 |
| Mar-98 | 29 | 200 | 10 | | 44.5 | 44.5 03/24/98 semiannual 51 |
| Sep-98 | 180 | 200 | 5 | | 104.5 | 104.5 09/22/98 semiannual 52 |
| May-99 | 29 | 200 | 10 | | 104.5 | 104.5 05/11/99 semiannual 53 |
| Oct-99 | 113 | 200 | 10 | | 71 | 71 10/05/99 semiannual 54 |
| May-00 | 27 | 200 | 10 | | 70 | 70 05/16/00 semiannual 55 |
| Nov-00 | 18 | 200 | 5 | | 22.5 | 22.5 11/28/00 semiannual 56 |
| Apr-01 | 21 | 200 | 5 | | 19.5 | 19.5 04/04/01 semiannual 57 |
| Oct-01 | 2 | 200 | 5 | | 11.5 | 11.5 10/18/01 semiannual 58 |
| Apr-02 | 24 | 200 | 5 | | 13 | 13 04/18/01 semiannual 59 |
| Oct-02 | 2 | 200 | 5 | | 13 | 13 10/03/02 semiannual 60 |
| Apr-03 | 13 | 200 | 5 | | 7.5 | 7.5 04/25/03 semiannual 61 |
| Oct-03 | 3 | 200 | 5 | | 8 | 8 10/03/03 semiannual 62 |
| Apr-04 | 16 | 200 | 5 | | 9.5 | 9.5 04/01/04 semiannual 63 |
| Oct-04 | 4 | 200 | 5 | | 10 | 10 10/19/04 semiannual 64 |
| Apr-05 | 9 | 200 | 5 | | 6.5 | 6.5 04/22/05 semiannual 65 |
| Oct-05 | 4 | 200 | 5 | | 6.5 | 6.5 10/07/05 semiannual 66 |
| May-06 | 8.1 | 200 | 5 | | 6.05 | 6.05 05/11/06 semiannual 67 |
| Oct-06 | 44.2 | 200 | 5 | | 26.15 | 26.15 10/18/06 semiannual 68 |
| May-07 | 8.1 | 200 | 5 | | 26.15 | 26.15 05/22/04 semiannual 69 |
| Oct-07 | 8.1 | 200 | 5 | | 8.1 | 8.1 10/25/07 semiannual 70 |
| May-08 | 8.1 | 200 | 5 | | 8.1 | 8.1 05/13/08 semiannual 71 |
| Oct-09 | 8.1 | 200 | 2 | | 8.1 | 8.1 10/23/08 semiannual 72 |
| May-09 | 5 | 200 | 5 | | 6.55 | 6.55 05/09/09 semiannual 73 |
| Oct-09 | 5 | 200 | 5 | | 5 | 5 10/29/09 semiannual 74 |
| May-10 | 5 | 200 | 5 | | 5 | 5 05/20/10 semiannual 75 |
| Oct-10 | 6.86 | 200 | 5 | | 5.93 | 5.93 10/18/10 semiannual 76 |
| Jun-11 | 31.1 | 200 | 5 | | 18.98 | 18.98 06/02/11 semiannual 77 |
| Oct-11 | 5.7 | 200 | 5 | | 18.4 | 18.4 10/12/11 semiannual 78 |
| May-12 | 16.9 | 200 | 2 | | 11.3 | 11.3 05/18/12 semiannual 79 |
| Oct-12 | 4.1 | 200 | 2 | | 10.5 | 10.5 10/11/12 semiannual 80 |
| May-13 | 3.5 | 200 | 2 | | 3.8 | 3.8 05/17/13 semiannual 81 |
| Oct-13 | 4.5 | 200 | 2 | | 4 | 4 10/11/13 semiannual 82 |
| May-14 | 10 | 200 | 10 | | 7.25 | 7.25 05/05/14 semiannual 83 |
| Oct-14 | 2.3 | 200 | 2 | | 6.15 | 6.15 10/06/14 semiannual 84 |

MOVING AVERAGE TREND TEST
VDM-11
CHLOROFORM



WELL VDM - 11 : CHLOROFORM

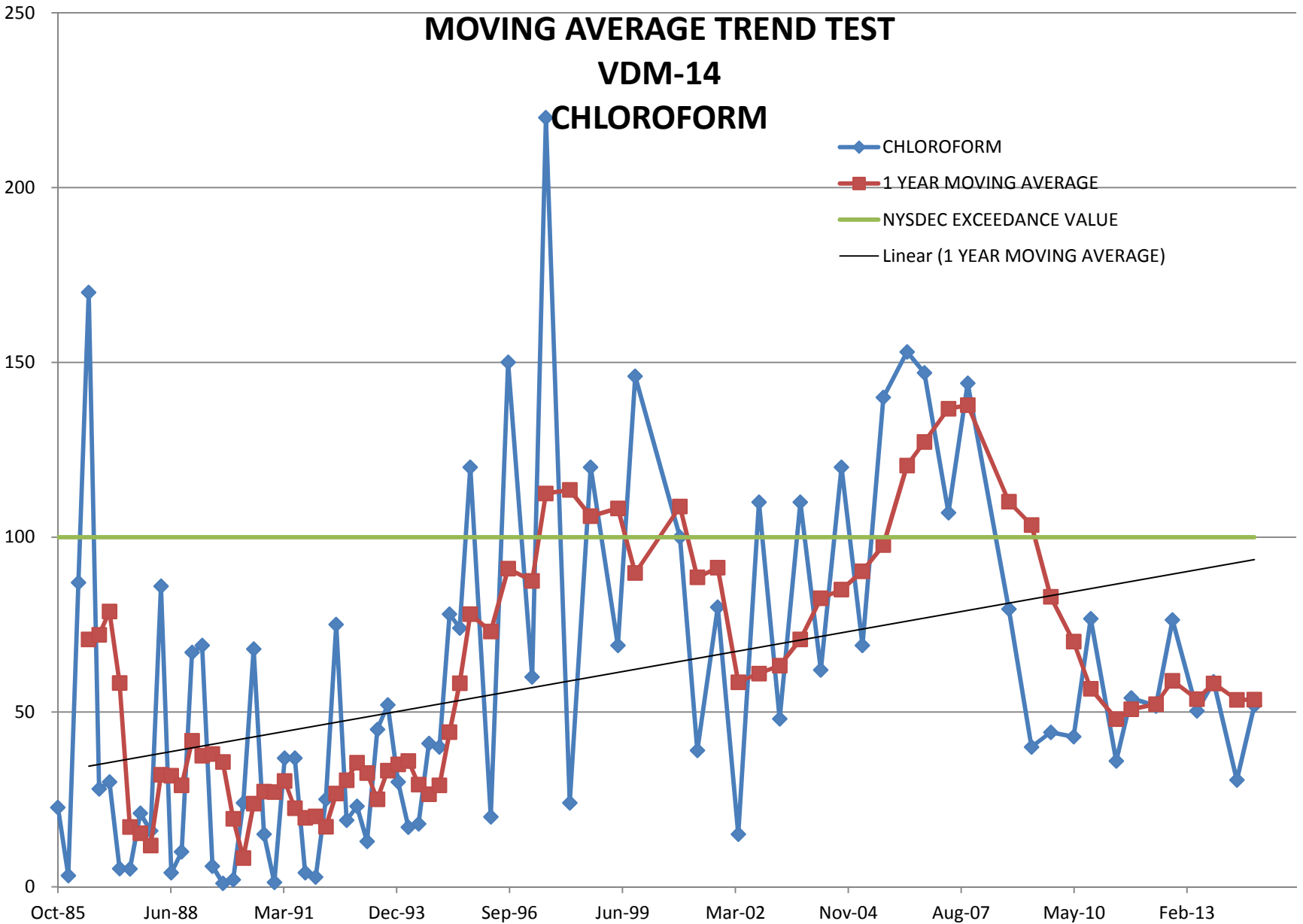
| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | | | |
|--------------------------|-------------|------------------------|-----------------|--------------------|---------------|--------------|------------|------------|----|
| - | - | - | - | - | - | - | | | |
| Jan-87 | | 200 | 8 | TOTAL STD 29.9605 | | 1 | | | |
| Apr-87 | | 200 | 8 | TOTAL Sx 3.6879 | | 2 | | | |
| Jul-87 | 79.2 | 200 | 8 | TOTAL MEAN 23.7433 | | 3 | | | |
| Oct-87 | 52.2 | 200 | 8 | TOTAL N 67 | | 4 | | | |
| Jan-88 | 30.7 | 200 | 8 | TOTAL df 66 | | 5 | | | |
| Apr-88 | 138 | 200 | 8 | | 75.03 | 6 | | | |
| Jul-88 | 123 | 200 | 8 | | 85.98 | 7 | | | |
| Oct-88 | 56 | 200 | 8 | | 86.93 | 8 | | | |
| Jan-89 | 23 | 200 | 8 | | 85.00 | 9 | | | |
| Apr-89 | 98 | 200 | 8 | | 75.00 | 10 | | | |
| Jul-89 | 52 | 200 | 8 | | 57.25 | 11 | | | |
| Oct-89 | 42 | 200 | 8 | | 53.75 | 12 | | | |
| Jan-90 | 32 | 200 | 8 | | 56.00 | 13 | | | |
| Apr-90 | 91 | 200 | 8 | | 54.25 | 14 | | | |
| Jul-90 | 15 | 200 | 8 | | 45.00 | 15 | | | |
| Oct-90 | 51 | 200 | 8 | | 47.25 | 16 | | | |
| Jan-91 | 74 | 200 | 8 | | 57.75 | 17 | | | |
| Apr-91 | 2 | 200 | 8 | | 35.50 | 18 | | | |
| Jul-91 | 7.4 | 200 | 8 | | 33.60 | 19 | | | |
| Oct-91 | 13 | 200 | 8 | | 24.10 | 20 | | | |
| Jan-92 | 26 | 200 | 8 | | 12.10 | 21 | | | |
| Apr-92 | 16 | 200 | 8 | | 15.60 | 22 | | | |
| Jul-92 | 1.25 | 200 | 8 | | 14.06 | 23 | | | |
| Oct-92 | 8.55 | 200 | 8 | | 12.95 | 24 | | | |
| Jan-93 | 14.3 | 200 | 8 | | 10.03 | 25 | | | |
| Apr-93 | 4 | 200 | 8 | | 7.03 | 26 | | | |
| Jul-93 | 1.58 | 200 | 8 | | 7.11 | 27 | | | |
| Oct-93 | 9.2 | 200 | 8 | | 7.27 | 28 | | | |
| Jan-94 | 13 | 200 | 8 | | 6.95 | 29 | | | |
| Apr-94 | 8.4 | 200 | 8 | | 8.05 | 30 | | | |
| Jul-94 | 71 | 200 | 8 | | 25.40 | 31 | | | |
| Oct-94 | 7.1 | 200 | 8 | | 24.88 | 32 | | | |
| Jan-95 | 12 | 200 | 8 | | 24.63 | 33 | | | |
| Apr-95 | 9.6 | 200 | 8 | | 24.93 | 34 | | | |
| Jul-95 | 6.8 | 200 | 8 | | 8.88 | 35 | | | |
| Oct-95 | 11 | 200 | 4 | | 9.85 | 36 | | | |
| Apr-96 | 10 | 200 | 10 | | 9.45 | 37 | | | |
| Sep-96 | 11 | 200 | 10 | | 10.5 | 10.5 | 9/17/1996 | semiannual | 38 |
| Apr-97 | 10 | 200 | 10 | | 10.5 | 10.5 | 4/3/1997 | semiannual | 39 |
| Aug-97 | 73 | 200 | 10 | | 41.5 | 41.5 | 8/27/1997 | semiannual | 40 |
| Mar-98 | 5 | 200 | 5 | | 39 | 39 | 3/24/1998 | semiannual | 41 |
| Sep-98 | 53 | 200 | 5 | | 29 | 29 | 9/22/1998 | semiannual | 42 |
| May-99 | 10 | 200 | 10 | | 31.5 | 31.5 | 5/11/1999 | semiannual | 43 |
| Oct-99 | 18 | 200 | 10 | | 14 | 14 | 10/5/1999 | semiannual | 44 |
| May-00 | 10 | 200 | 10 | | 14 | 14 | 5/16/2000 | semiannual | 45 |
| Nov-00 | 20 | 200 | 5 | | 15 | 15 | 11/28/2000 | semiannual | 46 |
| Apr-01 | 5 | 200 | 5 | | 12.5 | 12.5 | 4/4/2001 | semiannual | 47 |
| Oct-01 | 22 | 200 | 5 | | 13.5 | 13.5 | 10/18/2001 | semiannual | 48 |
| Apr-02 | 2 | 200 | 5 | | 12 | 12 | 4/18/2002 | semiannual | 49 |
| Oct-02 | 17 | 200 | 5 | | 9.5 | 9.5 | 10/3/2002 | semiannual | 50 |
| Apr-03 | 3 | 200 | 5 | | 10 | 10 | 4/25/2003 | semiannual | 51 |
| Oct-03 | 11 | 200 | 5 | | 7 | 7 | 10/3/2003 | semiannual | 52 |
| Apr-04 | 1 | 200 | 5 | | 6 | 6 | 4/1/2004 | semiannual | 53 |
| Oct-04 | 10 | 200 | 5 | | 5.5 | 5.5 | 10/19/2004 | semiannual | 54 |
| Apr-05 | 9 | 200 | 5 | | 9.5 | 9.5 | 4/22/2005 | semiannual | 55 |
| Oct-05 | 9 | 200 | 5 | | 9 | 9 | 10/7/2005 | semiannual | 56 |
| May-06 | 8.1 | 200 | 5 | | 8.55 | 8.55 | 5/11/2006 | semiannual | 57 |
| Oct-06 | 8.1 | 200 | 5 | | 8.1 | 8.1 | 10/18/2006 | semiannual | 58 |
| May-07 | 8.1 | 200 | 5 | | 8.1 | 8.1 | 5/22/2007 | semiannual | 59 |
| Oct-07 | 8.1 | 200 | 5 | | 8.1 | 8.1 | 10/25/2007 | semiannual | 60 |
| May-08 | 8.1 | 200 | 5 | | 8.1 | 8.1 | 5/13/2008 | semiannual | 61 |
| Oct-08 | 8.1 | 200 | 5 | | 8.1 | 8.1 | 10/23/2008 | semiannual | 62 |
| May-09 | 5 | 200 | 5 | | 6.55 | 6.55 | 5/12/2009 | semiannual | 63 |
| Oct-09 | 6.69 | 200 | 5 | | 5.845 | 5.845 | 10/29/2009 | semiannual | 64 |
| May-10 | 5 | 200 | 5 | | 5.845 | 5.845 | 5/20/2010 | semiannual | 65 |
| Oct-10 | 6.87 | 200 | 5 | | 5.935 | 5.935 | 10/18/2010 | semiannual | 66 |
| Jun-11 | 3.36 | 200 | 5 | | 5.115 | 5.115 | 6/2/2011 | semiannual | 67 |
| Oct-11 | 5 | 200 | 5 | | 4.18 | 4.18 | 10/12/2011 | semiannual | 68 |
| May-12 | 2 | 200 | 2 | | 3.5 | 3.5 | 5/18/2012 | semiannual | 69 |
| Oct-12 | 7 | 200 | 2 | | 4.5 | 4.5 | 10/11/2012 | semiannual | 70 |
| May-13 | 2 | 200 | 2 | | 4.5 | 4.5 | 5/17/2013 | semiannual | 71 |
| Oct-13 | 4.3 | 200 | 2 | | 3.15 | 3.15 | 10/11/2013 | semiannual | 72 |
| May-14 | 10 | 200 | 10 | | 7.15 | 7.15 | 5/5/2014 | semiannual | 73 |
| Oct-14 | 2.9 | 200 | 2 | | 6.45 | 6.45 | 10/6/2014 | semiannual | 74 |

MOVING AVERAGE TREND TEST

VDM-14

CHLOROFORM

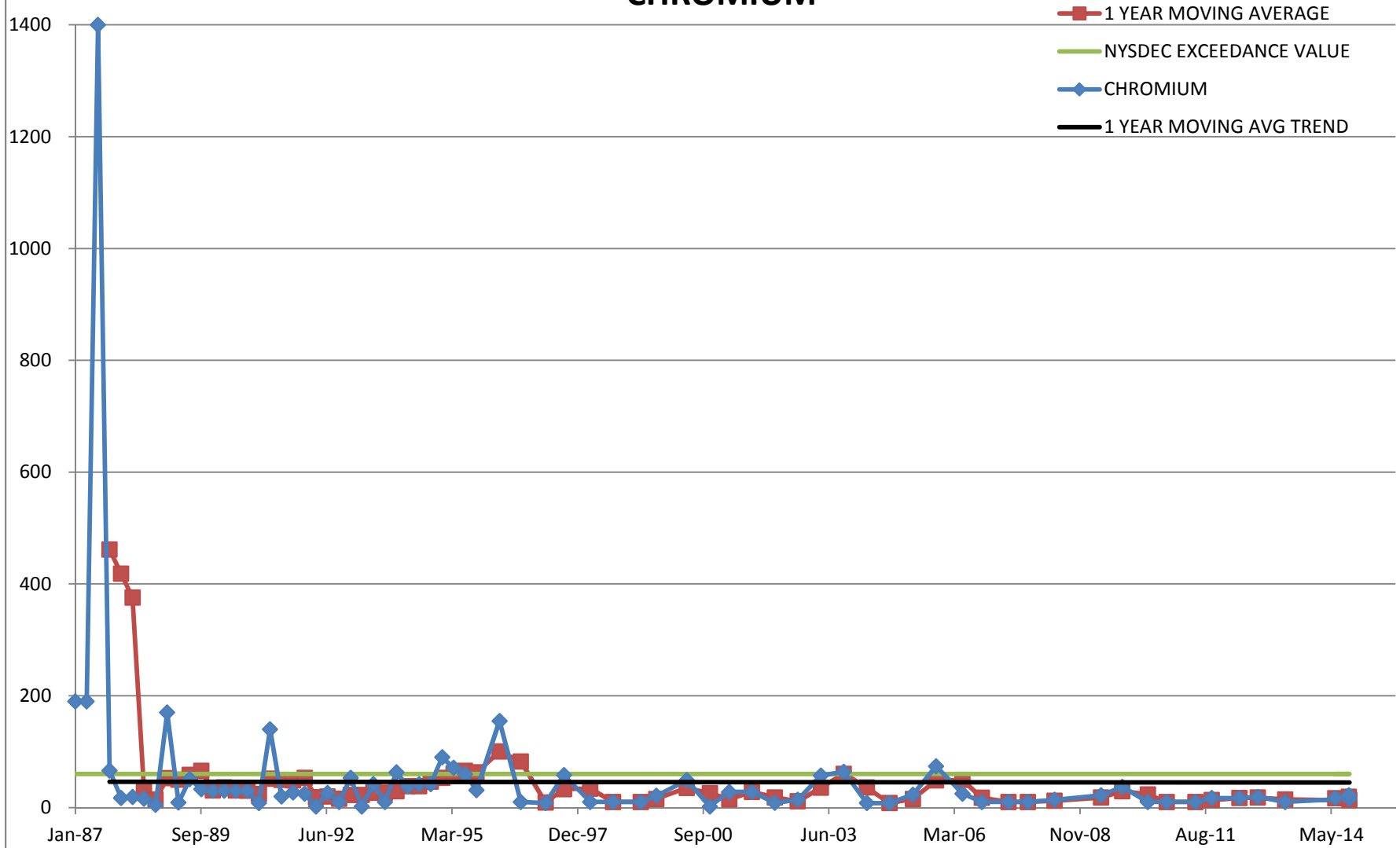
- ◆ CHLOROFORM
- 1 YEAR MOVING AVERAGE
- NYSDEC EXCEEDANCE VALUE
- Linear (1 YEAR MOVING AVERAGE)



WELL VDM - 14 : CHLOROFORM

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | | |
|-------------------|-------------|------------------------|-----------------|--------------------|---------------|--------------|-----------------------|----|
| | - | - | - | - | - | - | | |
| Oct-85 | 22.7 | 100 | 8 | TOTAL STI 48.67501 | | 1 | | |
| Jan-86 | 3.2 | 100 | 8 | TOTAL Sx 5.776661 | | 2 | | |
| Apr-86 | 87 | 100 | 8 | TOTAL MEA 57.91181 | | 3 | | |
| Jul-86 | 170 | 100 | 8 | TOTAL N 72 | 70.73 | 4 | | |
| Oct-86 | 28 | 100 | 8 | TOTAL df 71 | 72.05 | 5 | | |
| Jan-87 | 30 | 100 | 8 | | 78.75 | 6 | | |
| Apr-87 | 5.2 | 100 | 8 | | 58.30 | 7 | | |
| Jul-87 | 5.1 | 100 | 8 | | 17.08 | 8 | | |
| Oct-87 | 21 | 100 | 8 | | 15.33 | 9 | | |
| Jan-88 | 16 | 100 | 8 | | 11.83 | 10 | | |
| Apr-88 | 86 | 100 | 8 | | 32.03 | 11 | | |
| Jul-88 | 4 | 100 | 8 | | 31.75 | 12 | | |
| Oct-88 | 10 | 100 | 8 | | 29.00 | 13 | | |
| Jan-89 | 67 | 100 | 8 | | 41.75 | 14 | | |
| Apr-89 | 69 | 100 | 8 | | 37.50 | 15 | | |
| Jul-89 | 5.9 | 100 | 8 | | 37.98 | 16 | | |
| Oct-89 | 1 | 100 | 8 | | 35.73 | 17 | | |
| Jan-90 | 2 | 100 | 8 | | 19.48 | 18 | | |
| Apr-90 | 24 | 100 | 8 | | 8.23 | 19 | | |
| Jul-90 | 68 | 100 | 8 | | 23.75 | 20 | | |
| Oct-90 | 15 | 100 | 8 | | 27.25 | 21 | | |
| Jan-91 | 1.25 | 100 | 8 | | 27.06 | 22 | | |
| Apr-91 | 36.8 | 100 | 8 | | 30.26 | 23 | | |
| Jul-91 | 36.8 | 100 | 8 | | 22.46 | 24 | | |
| Oct-91 | 4 | 100 | 8 | | 19.71 | 25 | | |
| Jan-92 | 2.8 | 100 | 8 | | 20.10 | 26 | | |
| Apr-92 | 25 | 100 | 8 | | 17.15 | 27 | | |
| Jul-92 | 75 | 100 | 8 | | 26.70 | 28 | | |
| Oct-92 | 19 | 100 | 8 | | 30.45 | 29 | | |
| Jan-93 | 23 | 100 | 8 | | 35.50 | 30 | | |
| Apr-93 | 13 | 100 | 8 | | 32.50 | 31 | | |
| Jul-93 | 45 | 100 | 8 | | 25.00 | 32 | | |
| Oct-93 | 52 | 100 | 8 | | 33.25 | 33 | | |
| Jan-94 | 30 | 100 | 8 | | 35.00 | 34 | | |
| Apr-94 | 17 | 100 | 8 | | 36.00 | 35 | | |
| Jul-94 | 18 | 100 | 8 | | 29.25 | 36 | | |
| Oct-94 | 41 | 100 | 8 | | 26.50 | 37 | | |
| Jan-95 | 40 | 100 | 8 | | 29.00 | 38 | | |
| Apr-95 | 78 | 100 | 8 | | 44.25 | 39 | | |
| Jul-95 | 74 | 100 | 8 | | 58.25 | 40 | | |
| Oct-95 | 120 | 100 | 8 | | 78.00 | 41 | | |
| Apr-96 | 20 | 100 | 8 | | 73.00 | 42 | | |
| Sep-96 | 150 | 100 | 10 | | 91.00 | 85 | 9/17/1996 semiannual | 43 |
| Apr-97 | 60 | 100 | 10 | | 87.50 | 105 | 4/3/1997 semiannual | 44 |
| Aug-97 | 220 | 100 | 100 | | 112.50 | 140 | 8/27/1997 semiannual | 45 |
| Mar-98 | 24 | 100 | 5 | | 113.50 | 122 | 3/24/1998 semiannual | 46 |
| Sep-98 | 120 | 100 | 5 | | 106.00 | 72 | 9/22/1998 semiannual | 47 |
| May-99 | 69 | 100 | 10 | | 108.25 | 94.5 | 5/11/1999 semiannual | 48 |
| Oct-99 | 146 | 100 | 10 | | 89.75 | 107.5 | 10/5/1999 semiannual | 49 |
| Nov-00 | 100 | 100 | 5 | | 108.75 | 123 | 11/28/2000 semiannual | 50 |
| Apr-01 | 39 | 100 | 5 | | 88.50 | 69.5 | 4/4/2001 semiannual | 51 |
| Oct-01 | 80 | 100 | 5 | | 91.25 | 59.5 | 10/18/2001 semiannual | 52 |
| Apr-02 | 15 | 100 | 5 | | 58.50 | 47.5 | 4/18/2002 semiannual | 53 |
| Oct-02 | 110 | 100 | 25 | | 61.00 | 62.5 | 10/3/2002 semiannual | 54 |
| Apr-03 | 48 | 100 | 10 | | 63.25 | 79 | 4/25/1993 semiannual | 55 |
| Oct-03 | 110 | 100 | 5 | | 70.75 | 79 | 10/3/2003 semiannual | 56 |
| Apr-04 | 62 | 100 | 5 | | 82.50 | 86 | 4/1/2004 semiannual | 57 |
| Oct-04 | 120 | 100 | 5 | | 85.00 | 91 | 10/19/2004 semiannual | 58 |
| Apr-05 | 69 | 100 | 5 | | 90.25 | 94.5 | 4/22/2005 semiannual | 59 |
| Oct-05 | 140 | 100 | 5 | | 97.75 | 104.5 | 10/7/2005 semiannual | 60 |
| May-06 | 153 | 100 | 5 | | 120.50 | 146.5 | 5/11/2006 semiannual | 61 |
| Oct-06 | 147 | 100 | 5 | | 127.25 | 150 | 10/18/2006 semiannual | 62 |
| May-07 | 107 | 100 | 5 | | 136.75 | 127 | 5/22/2007 semiannual | 63 |
| Oct-07 | 144 | 100 | 5 | | 137.75 | 125.5 | 10/25/2007 semiannual | 64 |
| Oct-08 | 79.4 | 100 | 5 | | 110.13 | 111.7 | 10/23/2008 semiannual | 65 |
| May-09 | 40 | 100 | 5 | | 103.48 | 59.7 | 5/12/2009 semiannual | 66 |
| Oct-09 | 44.2 | 100 | 5 | | 82.92 | 42.1 | 10/29/2009 semiannual | 67 |
| May-10 | 42.9 | 100 | 5 | | 70.10 | 43.55 | 5/20/2010 semiannual | 68 |
| Oct-10 | 76.7 | 100 | 5 | | 56.64 | 59.8 | 10/18/2010 semiannual | 69 |
| Jun-11 | 36 | 100 | 5 | | 47.96 | 56.35 | 6/2/2011 semiannual | 70 |
| Oct-11 | 54 | 100 | 50 | | 50.76 | 45 | 10/12/2011 semiannual | 71 |
| May-12 | 51.7 | 100 | 2 | | 52.26 | 52.85 | 5/18/2012 semiannual | 72 |
| Oct-12 | 76.3 | 100 | 2 | | 58.94 | 64 | 10/11/2012 semiannual | 73 |
| May-13 | 50.3 | 100 | 2 | | 53.66 | 63.3 | 5/17/2013 semiannual | 74 |
| Oct-13 | 58.6 | 100 | 2 | | 58.18 | 54.45 | 10/11/2013 semiannual | 75 |
| May-14 | 30.5 | 100 | 2 | | 53.48 | 44.55 | 5/5/2014 semiannual | 76 |
| Oct-14 | 51.9 | 100 | 2 | | 53.52 | 41.2 | 10/6/2014 semiannual | 76 |

MOVING AVERAGE TREND TEST VDM-9 CHROMIUM

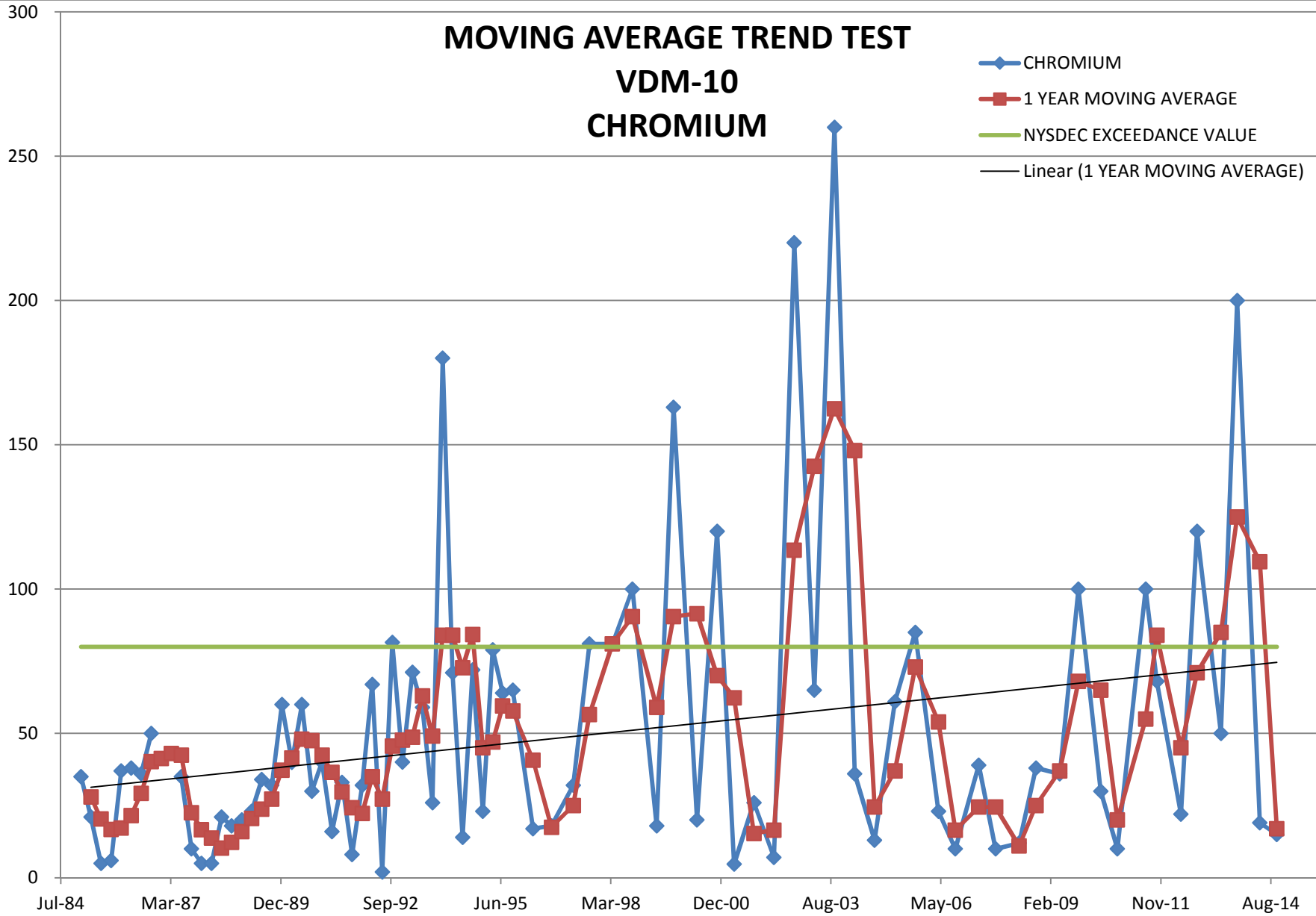


WELL VDM - 9 : CHROMIUM

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|---------------------|---------------|--------------|
| Jan-87 | 190 | 60 | 50 | TOTAL STD 170.5499 | | 1 |
| Apr-87 | 190 | 60 | 50 | TOTAL Sx 20.99324 | | 2 |
| Jul-87 | 1400 | 60 | 50 | TOTAL MEAN 58.33582 | | 3 |
| Oct-87 | 66 | 60 | 50 | TOTAL N 67 | 461.5 | 4 |
| Jan-88 | 17 | 60 | 50 | TOTAL df 66 | 418.25 | 5 |
| Apr-88 | 19 | 60 | 50 | | 375.5 | 6 |
| Jul-88 | 16 | 60 | 50 | | 29.5 | 7 |
| Oct-88 | 5 | 60 | 50 | | 14.25 | 8 |
| Jan-89 | 170 | 60 | 50 | | 52.5 | 9 |
| Apr-89 | 9 | 60 | 50 | | 50 | 10 |
| Jul-89 | 51 | 60 | 50 | | 58.75 | 11 |
| Oct-89 | 33 | 60 | 50 | | 65.75 | 12 |
| Jan-90 | 30 | 60 | 50 | | 30.75 | 13 |
| Apr-90 | 30 | 60 | 50 | | 36 | 14 |
| Jul-90 | 30 | 60 | 50 | | 30.75 | 15 |
| Oct-90 | 30 | 60 | 50 | | 30 | 16 |
| Jan-91 | 8 | 60 | 50 | | 24.5 | 17 |
| Apr-91 | 140 | 60 | 50 | | 52 | 18 |
| Jul-91 | 20 | 60 | 50 | | 49.5 | 19 |
| Oct-91 | 27 | 60 | 50 | | 48.75 | 20 |
| Jan-92 | 25 | 60 | 50 | | 53 | 21 |
| Apr-92 | 2 | 60 | 50 | | 18.5 | 22 |
| Jul-92 | 26 | 60 | 50 | | 20 | 23 |
| Oct-92 | 10 | 60 | 50 | | 15.75 | 24 |
| Jan-93 | 53 | 60 | 50 | | 22.75 | 25 |
| Apr-93 | 2 | 60 | 50 | | 22.75 | 26 |
| Jul-93 | 42 | 60 | 50 | | 26.75 | 27 |
| Oct-93 | 10 | 60 | 50 | | 26.75 | 28 |
| Jan-94 | 63 | 60 | 50 | | 29.25 | 29 |
| Apr-94 | 38 | 60 | 50 | | 38.25 | 30 |
| Jul-94 | 42 | 60 | 50 | | 38.25 | 31 |
| Oct-94 | 42 | 60 | 50 | | 46.25 | 32 |
| Jan-95 | 90 | 60 | 50 | | 53 | 33 |
| Apr-95 | 71 | 60 | 50 | | 61.25 | 34 |
| Jul-95 | 60 | 60 | 50 | | 65.75 | 35 |
| Oct-95 | 31 | 60 | 2 | | 63 | 36 |
| Apr-96 | 155 | 60 | 2 | | 100.25 | 37 |
| Sep-96 | 10 | 60 | 5 | | 82.5 | 38 |
| Apr-97 | 8 | 60 | 5 | | 9 | 39 |
| Aug-97 | 58 | 60 | 5 | | 33 | 40 |
| Mar-98 | 10 | 60 | 10 | | 34 | 41 |
| Sep-98 | 10 | 60 | 10 | | 10 | 42 |
| May-99 | 10 | 60 | 10 | | 10 | 43 |
| Sep-99 | 21 | 60 | 14 | | 15.5 | 44 |
| May-00 | 49 | 60 | 20 | | 35 | 45 |
| Nov-00 | 2 | 60 | 2 | | 25.5 | 46 |
| Apr-01 | 28 | 60 | 2 | | 15 | 47 |
| Oct-01 | 28 | 60 | 2 | | 28 | 48 |
| Apr-02 | 8.5 | 60 | 2 | | 18.25 | 49 |
| Oct-02 | 14 | 60 | 2 | | 11.25 | 50 |
| Apr-03 | 57 | 60 | 2 | | 35.5 | 51 |
| Oct-03 | 64 | 60 | 4 | | 60.5 | 52 |
| Apr-04 | 8 | 60 | 4 | | 36 | 53 |
| Oct-04 | 8 | 60 | 4 | | 8 | 54 |
| Apr-05 | 23 | 60 | 4 | | 15.5 | 55 |
| Oct-05 | 74 | 60 | 4 | | 48.5 | 56 |
| May-06 | 25 | 60 | 4 | | 49.5 | 57 |
| Oct-06 | 10 | 60 | 4 | | 17.5 | 58 |
| May-07 | 10 | 60 | 4 | | 10 | 59 |
| Oct-07 | 10 | 60 | 4 | | 10 | 60 |
| May-08 | 14 | 60 | 4 | | 12 | 61 |
| May-09 | 22 | 60 | 4 | | 18 | 63 |
| Oct-09 | 37 | 60 | 4 | | 29.5 | 64 |
| May-10 | 10 | 60 | 4 | | 23.5 | 65 |
| Oct-10 | 10 | 60 | 4 | | 10 | 66 |
| Jun-11 | 10 | 60 | 10 | | 10 | 67 |
| Oct-11 | 17 | 60 | 10 | | 13.5 | 68 |
| May-12 | 17 | 60 | 10 | | 17 | 69 |
| Oct-12 | 19 | 60 | 400 | | 18 | 70 |
| May-13 | 10 | 60 | 400 | | 14.5 | 71 |
| Oct-14 | 16 | 60 | 20 | | 13 | 72 |
| Jun-14 | 17 | 60 | 30 | | 16.5 | 73 |
| Oct-14 | 22 | 60 | 10 | | 19.5 | 74 |

MOVING AVERAGE TREND TEST VDM-10 CHROMIUM

- CHROMIUM
- 1 YEAR MOVING AVERAGE
- NYSDEC EXCEEDANCE VALUE
- Linear (1 YEAR MOVING AVERAGE)



WELL VDM - 10 : CHROMIUM

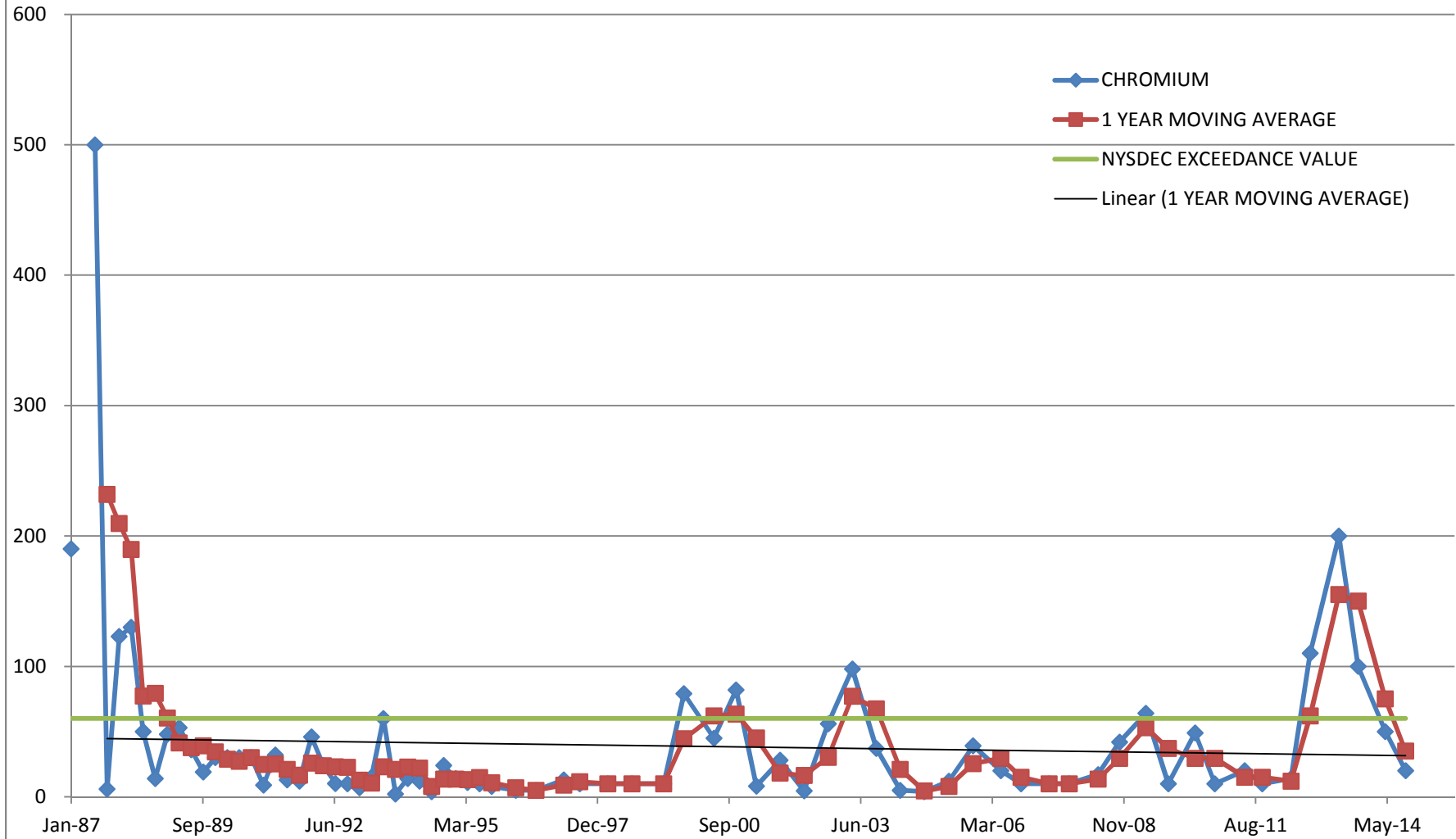
WELL VDM - 10 : CHROMIUM

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVERAGE | SAMPLING EVENT NO. |
|----------------|----------|------------------|-------------|----------------------|----------------|--------------------|
| Jul-84 | | 80 | 50 | TOTAL STD 47.3213727 | | 1 |
| Oct-84 | | 80 | 50 | TOTAL Sx 5.53854774 | | 2 |
| Jan-85 | 35 | 80 | 50 | TOTAL MEAN 48.222973 | | 3 |
| Apr-85 | 21 | 80 | 50 | TOTAL N 74 | 28.00 | 4 |
| Jul-85 | 5 | 80 | 50 | TOTAL df 73 | 20.33 | 5 |
| Oct-85 | 6 | 80 | 50 | | 16.75 | 6 |
| Jan-86 | 37 | 80 | 50 | | 17.25 | 7 |
| Apr-86 | 38 | 80 | 50 | | 21.50 | 8 |
| Jul-86 | 36 | 80 | 50 | | 29.25 | 9 |
| Oct-86 | 50 | 80 | 50 | | 40.25 | 10 |
| Jan-87 | | 80 | 50 | | 41.33 | 11 |
| Apr-87 | | 80 | 50 | | 43.00 | 12 |
| Jul-87 | 35 | 80 | 50 | | 42.50 | 13 |
| Oct-87 | 10 | 80 | 50 | | 22.50 | 14 |
| Jan-88 | 5 | 80 | 50 | | 16.67 | 15 |
| Apr-88 | 5 | 80 | 50 | | 13.75 | 16 |
| Jul-88 | 21 | 80 | 50 | | 10.25 | 17 |
| Oct-88 | 18 | 80 | 50 | | 12.25 | 18 |
| Jan-89 | 20 | 80 | 50 | | 16.00 | 19 |
| Apr-89 | 23 | 80 | 50 | | 20.50 | 20 |
| Jul-89 | 34 | 80 | 50 | | 23.75 | 21 |
| Oct-89 | 32 | 80 | 50 | | 27.25 | 22 |
| Jan-90 | 60 | 80 | 50 | | 37.25 | 23 |
| Apr-90 | 40 | 80 | 50 | | 41.50 | 24 |
| Jul-90 | 60 | 80 | 50 | | 48.00 | 25 |
| Oct-90 | 30 | 80 | 50 | | 47.50 | 26 |
| Jan-91 | 40 | 80 | 50 | | 42.50 | 27 |
| Apr-91 | 16 | 80 | 50 | | 36.50 | 28 |
| Jul-91 | 33 | 80 | 50 | | 29.75 | 29 |
| Oct-91 | 8 | 80 | 50 | | 24.25 | 30 |
| Jan-92 | 32 | 80 | 50 | | 22.25 | 31 |
| Apr-92 | 67 | 80 | 50 | | 35.00 | 32 |
| Jul-92 | 2 | 80 | 50 | | 27.25 | 33 |
| Oct-92 | 81.5 | 80 | 50 | | 45.63 | 34 |
| Jan-93 | 40.1 | 80 | 50 | | 47.65 | 35 |
| Apr-93 | 71.2 | 80 | 50 | | 48.70 | 36 |
| Jul-93 | 59 | 80 | 50 | | 62.95 | 37 |
| Oct-93 | 26 | 80 | 50 | | 49.08 | 38 |
| Jan-94 | 180 | 80 | 50 | | 84.05 | 39 |
| Apr-94 | 71 | 80 | 50 | | 84.00 | 40 |
| Jul-94 | 14 | 80 | 50 | | 72.75 | 41 |
| Oct-94 | 72 | 80 | 50 | | 84.25 | 42 |
| Jan-95 | 23 | 80 | 50 | | 45.00 | 43 |
| Apr-95 | 79 | 80 | 50 | | 47.00 | 44 |
| Jul-95 | 64 | 80 | 50 | | 59.50 | 45 |
| Oct-95 | 65 | 80 | 2 | | 57.75 | 46 |
| Apr-96 | 17 | 80 | 2 | | 40.75 | 47 |
| Sep-96 | 18 | 80 | 5 | | 17.5 | 48 |
| Apr-97 | 32 | 80 | 20 | | 25 | 49 |
| Aug-97 | 81 | 80 | 5 | | 56.5 | 50 |
| Mar-98 | 81 | 80 | 10 | | 81 | 51 |
| Sep-98 | 100 | 80 | 10 | | 90.5 | 52 |
| May-99 | 18 | 80 | 10 | | 59 | 53 |
| Oct-99 | 163 | 80 | 14 | | 90.5 | 54 |
| May-00 | 20 | 80 | 20 | | 91.5 | 55 |
| Nov-00 | 120 | 80 | 2 | | 70 | 56 |
| Apr-01 | 4.7 | 80 | 2 | | 62.35 | 57 |
| Oct-01 | 26 | 80 | 2 | | 15.35 | 58 |
| Apr-02 | 7 | 80 | 2 | | 16.5 | 59 |
| Oct-02 | 220 | 80 | 2 | | 113.5 | 60 |
| Apr-03 | 65 | 80 | 2 | | 142.5 | 61 |
| Oct-03 | 260 | 80 | 4 | | 162.5 | 62 |
| Apr-04 | 36 | 80 | 4 | | 148 | 63 |
| Oct-04 | 13 | 80 | 4 | | 24.5 | 64 |
| Apr-05 | 61 | 80 | 4 | | 37 | 65 |
| Oct-05 | 85 | 80 | 4 | | 73 | 66 |
| May-06 | 23 | 80 | 4 | | 54 | 67 |
| Oct-06 | 10 | 80 | 4 | | 16.5 | 68 |
| May-07 | 39 | 80 | 4 | | 24.5 | 69 |
| Oct-07 | 10 | 80 | 4 | | 24.5 | 70 |
| May-08 | 12 | 80 | 4 | | 11 | 71 |
| Oct-08 | 38 | 80 | 4 | | 25 | 72 |
| May-09 | 36 | 80 | 4 | | 37 | 73 |
| Oct-09 | 100 | 80 | 4 | | 68 | 74 |
| May-10 | 30 | 80 | 4 | | 65 | 75 |
| Oct-10 | 10 | 80 | 10 | | 20 | 76 |
| Jul-11 | 100 | 80 | 100 | | 55 | 77 |
| Oct-11 | 68 | 80 | 100 | | 84 | 78 |
| May-12 | 22 | 80 | 10 | | 45 | 79 |
| Oct-12 | 120 | 80 | 400 | | 71 | 80 |
| May-13 | 50 | 80 | 50 | | 85 | 81 |
| Oct-13 | 200 | 80 | 200 | | 125 | 82 |
| May-14 | 19 | 80 | 30 | | 109.5 | 83 |
| Oct-14 | 15 | 80 | 10 | | 17 | 84 |

MOVING AVERAGE TREND TEST

VDM-11

CHROMIUM



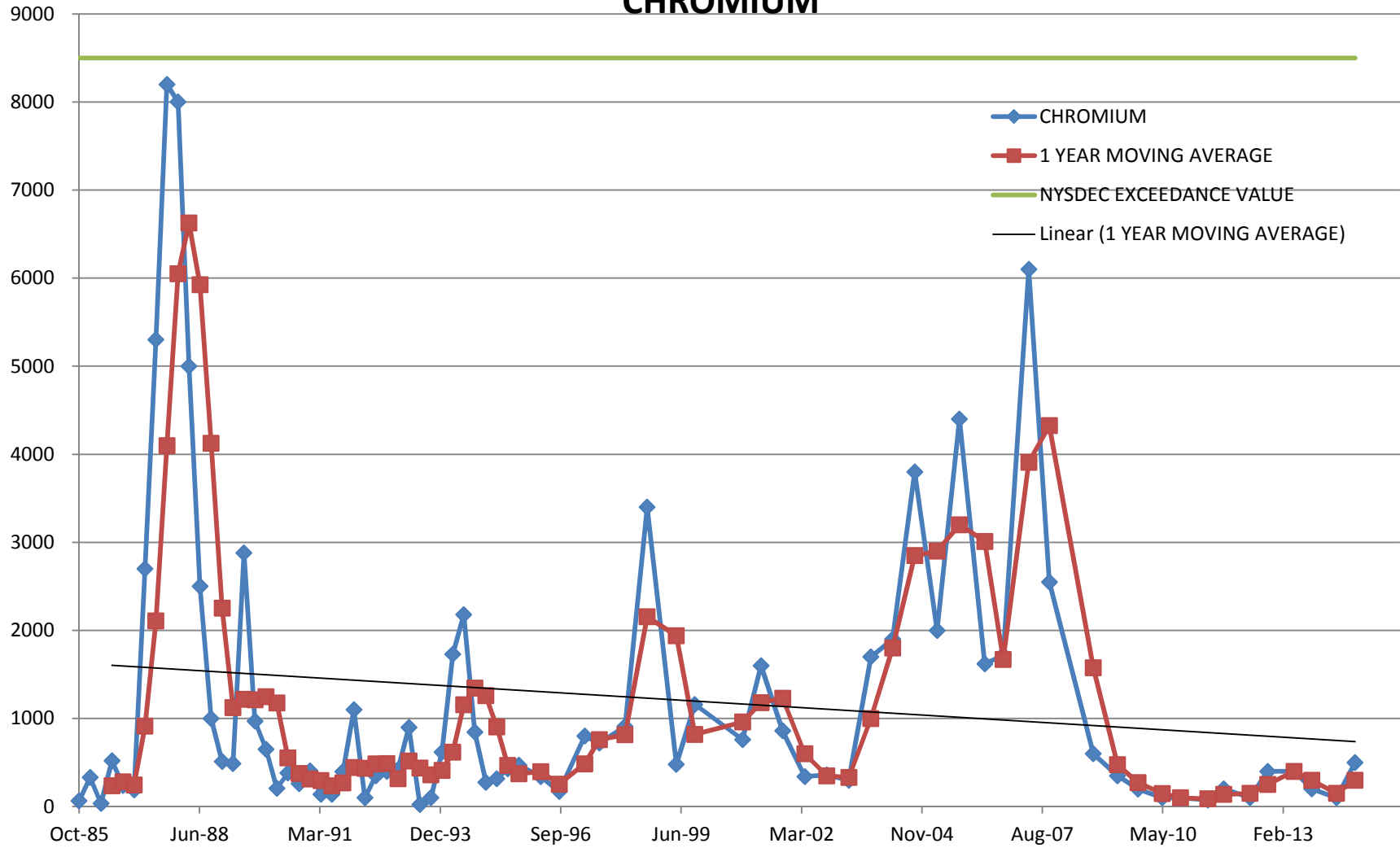
WELL VDM - 11 : CHROMIUM

| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|--------------------------|-------------|------------------------|-----------------|--------------------|---------------|--------------|
| - | - | - | - | - | - | - |
| Jan-87 | 190 | 60 | 50 | TOTAL STD 65.6805 | | 1 |
| Apr-87 | | 60 | 50 | TOTAL Sx 8.0242 | | 2 |
| Jul-87 | 500 | 60 | 50 | TOTAL MEAN 36.3662 | | 3 |
| Oct-87 | 6 | 60 | 50 | TOTAL N 68 | 232.00 | 4 |
| Jan-88 | 123 | 60 | 50 | TOTAL df 67 | 209.67 | 5 |
| Apr-88 | 130 | 60 | 50 | | 189.75 | 6 |
| Jul-88 | 50 | 60 | 50 | | 77.25 | 7 |
| Oct-88 | 14 | 60 | 50 | | 79.25 | 8 |
| Jan-89 | 48 | 60 | 50 | | 60.50 | 9 |
| Apr-89 | 53 | 60 | 50 | | 41.25 | 10 |
| Jul-89 | 36 | 60 | 50 | | 37.75 | 11 |
| Oct-89 | 19 | 60 | 50 | | 39.00 | 12 |
| Jan-90 | 30 | 60 | 50 | | 34.50 | 13 |
| Apr-90 | 30 | 60 | 50 | | 28.75 | 14 |
| Jul-90 | 30 | 60 | 50 | | 27.25 | 15 |
| Oct-90 | 30 | 60 | 50 | | 30.00 | 16 |
| Jan-91 | 9 | 60 | 50 | | 24.75 | 17 |
| Apr-91 | 32 | 60 | 50 | | 25.25 | 18 |
| Jul-91 | 13 | 60 | 50 | | 21.00 | 19 |
| Oct-91 | 12 | 60 | 50 | | 16.50 | 20 |
| Jan-92 | 46 | 60 | 50 | | 25.75 | 21 |
| Apr-92 | 24 | 60 | 50 | | 23.75 | 22 |
| Jul-92 | 10.2 | 60 | 50 | | 23.05 | 23 |
| Oct-92 | 10 | 60 | 50 | | 22.55 | 24 |
| Jan-93 | 6.9 | 60 | 50 | | 12.78 | 25 |
| Apr-93 | 15 | 60 | 50 | | 10.53 | 26 |
| Jul-93 | 60 | 60 | 50 | | 22.98 | 27 |
| Oct-93 | 2 | 60 | 50 | | 20.98 | 28 |
| Jan-94 | 14 | 60 | 50 | | 22.75 | 29 |
| Apr-94 | 12 | 60 | 50 | | 22.00 | 30 |
| Jul-94 | 4 | 60 | 50 | | 8.00 | 31 |
| Oct-94 | 24 | 60 | 50 | | 13.50 | 32 |
| Jan-95 | 14 | 60 | 50 | | 13.50 | 33 |
| Apr-95 | 11 | 60 | 50 | | 13.25 | 34 |
| Jul-95 | 10 | 60 | 50 | | 14.75 | 35 |
| Oct-95 | 8 | 60 | 2 | | 10.75 | 36 |
| Apr-96 | 5 | 60 | 5 | | 7 | 37 |
| Sep-96 | 5 | 60 | 5 | | 5 | 38 |
| Apr-97 | 13 | 60 | 20 | | 9 | 39 |
| Aug-97 | 10 | 60 | 5 | | 11.5 | 40 |
| Mar-98 | 10 | 60 | 10 | | 10 | 41 |
| Sep-98 | 10 | 60 | 10 | | 10 | 42 |
| May-99 | 10 | 60 | 10 | | 10 | 43 |
| Oct-99 | 79 | 60 | 14 | | 44.5 | 44 |
| May-00 | 45 | 60 | 20 | | 62 | 45 |
| Nov-00 | 82 | 60 | 2 | | 63.5 | 46 |
| Apr-01 | 8.2 | 60 | 2 | | 45.1 | 47 |
| Oct-01 | 28 | 60 | 2 | | 18.1 | 48 |
| Apr-02 | 4.6 | 60 | 2 | | 16.3 | 49 |
| Oct-02 | 56 | 60 | 2 | | 30.3 | 50 |
| Apr-03 | 98 | 60 | 2 | | 77 | 51 |
| Oct-03 | 37 | 60 | 4 | | 67.5 | 52 |
| Apr-04 | 5 | 60 | 4 | | 21 | 53 |
| Oct-04 | 4 | 60 | 4 | | 4.5 | 54 |
| Apr-05 | 12 | 60 | 4 | | 8 | 55 |
| Oct-05 | 39 | 60 | 4 | | 25.5 | 56 |
| May-06 | 20 | 60 | 4 | | 29.5 | 57 |
| Oct-06 | 10 | 60 | 4 | | 15 | 58 |
| May-07 | 10 | 60 | 4 | | 10 | 59 |
| Oct-07 | 10 | 60 | 4 | | 10 | 60 |
| May-08 | 17 | 60 | 4 | | 13.5 | 61 |
| Oct-08 | 42 | 60 | 4 | | 29.5 | 62 |
| May-09 | 64 | 60 | 4 | | 53 | 63 |
| Oct-09 | 10 | 60 | 4 | | 37 | 64 |
| May-10 | 49 | 60 | 4 | | 29.5 | 65 |
| Oct-10 | 10 | 60 | 4 | | 29.5 | 66 |
| Jun-11 | 20 | 60 | 4 | | 15 | 67 |
| Oct-11 | 10 | 60 | 10 | | 15 | 68 |
| May-12 | 14 | 60 | 10 | | 12 | 69 |
| Oct-12 | 110 | 60 | 400 | | 62 | 70 |
| May-13 | 200 | 60 | 200 | | 155 | 71 |
| Oct-13 | 100 | 60 | 100 | | 150 | 72 |
| May-14 | 50 | 60 | 30 | | 75 | 73 |
| Oct-14 | 20 | 60 | 10 | | 35 | 74 |

MOVING AVERAGE TREND TEST

VDM-14

CHROMIUM



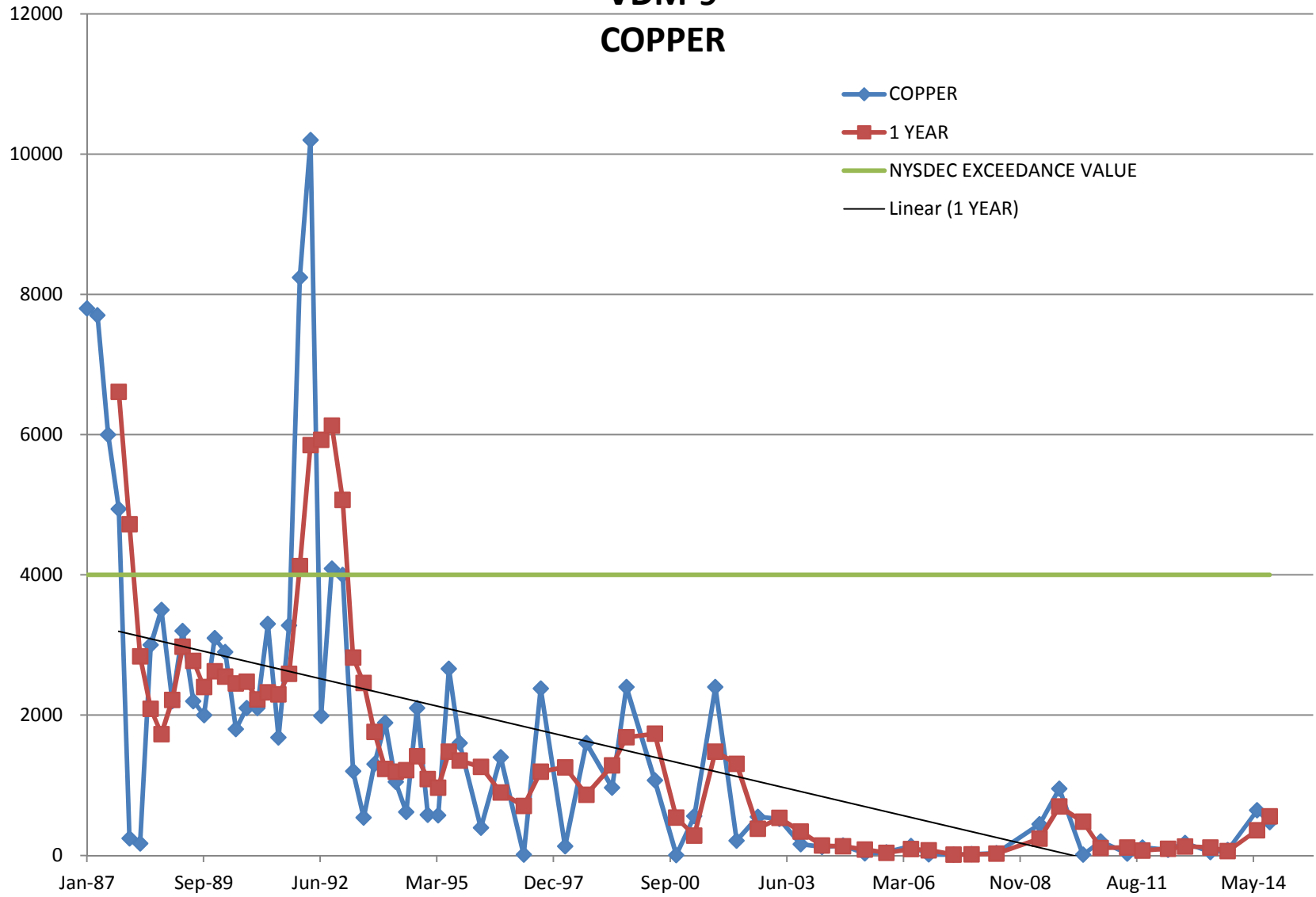
WELL VDM - 14 : CHROMIUM

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING VG | EVENT NO. | | | |
|-------------------|-------------|------------------------|-----------------|--------------------|--------------|--------------|------------|------------|----|
| ----- | - | - | - | - | - | - | | | |
| Oct-85 | 64 | 8500 | 50 | TOTAL STE 1745.988 | | 1 | | | |
| Jan-86 | 330 | 8500 | 50 | TOTAL Sx 207.2107 | | 2 | | | |
| Apr-86 | 34 | 8500 | 50 | TOTAL MEA 1270.542 | | 3 | | | |
| Jul-86 | 520 | 8500 | 50 | TOTAL N 72 | 237.00 | 4 | | | |
| Oct-86 | 240 | 8500 | 50 | TOTAL df 71 | 281.00 | 5 | | | |
| Jan-87 | 190 | 8500 | 50 | | 246.00 | 6 | | | |
| Apr-87 | 2700 | 8500 | 50 | | 912.50 | 7 | | | |
| Jul-87 | 5300 | 8500 | 50 | | 2107.50 | 8 | | | |
| Oct-87 | 8200 | 8500 | 50 | | 4097.50 | 9 | | | |
| Jan-88 | 8000 | 8500 | 50 | | 6050.00 | 10 | | | |
| Apr-88 | 5000 | 8500 | 50 | | 6625.00 | 11 | | | |
| Jul-88 | 2500 | 8500 | 50 | | 5925.00 | 12 | | | |
| Oct-88 | 1000 | 8500 | 50 | | 4125.00 | 13 | | | |
| Jan-89 | 510 | 8500 | 50 | | 2252.50 | 14 | | | |
| Apr-89 | 488 | 8500 | 50 | | 1124.50 | 15 | | | |
| Jul-89 | 2880 | 8500 | 50 | | 1219.50 | 16 | | | |
| Oct-89 | 970 | 8500 | 50 | | 1212.00 | 17 | | | |
| Jan-90 | 650 | 8500 | 50 | | 1247.00 | 18 | | | |
| Apr-90 | 208 | 8500 | 50 | | 1177.00 | 19 | | | |
| Jul-90 | 380 | 8500 | 50 | | 552.00 | 20 | | | |
| Oct-90 | 260 | 8500 | 50 | | 374.50 | 21 | | | |
| Jan-91 | 406 | 8500 | 50 | | 313.50 | 22 | | | |
| Apr-91 | 139 | 8500 | 50 | | 296.25 | 23 | | | |
| Jul-91 | 140 | 8500 | 50 | | 236.25 | 24 | | | |
| Oct-91 | 395 | 8500 | 50 | | 270.00 | 25 | | | |
| Jan-92 | 1100 | 8500 | 50 | | 443.50 | 26 | | | |
| Apr-92 | 100 | 8500 | 50 | | 433.75 | 27 | | | |
| Jul-92 | 350 | 8500 | 50 | | 486.25 | 28 | | | |
| Oct-92 | 400 | 8500 | 50 | | 487.50 | 29 | | | |
| Jan-93 | 420 | 8500 | 50 | | 317.50 | 30 | | | |
| Apr-93 | 900 | 8500 | 50 | | 517.50 | 31 | | | |
| Jul-93 | 25 | 8500 | 50 | | 436.25 | 32 | | | |
| Oct-93 | 100 | 8500 | 50 | | 361.25 | 33 | | | |
| Jan-94 | 619 | 8500 | 50 | | 411.00 | 34 | | | |
| Apr-94 | 1730 | 8500 | 50 | | 618.50 | 35 | | | |
| Jul-94 | 2180 | 8500 | 50 | | 1157.25 | 36 | | | |
| Oct-94 | 847 | 8500 | 50 | | 1344.00 | 37 | | | |
| Jan-95 | 276 | 8500 | 50 | | 1258.25 | 38 | | | |
| Apr-95 | 317 | 8500 | 50 | | 905.00 | 39 | | | |
| Jul-95 | 430 | 8500 | 50 | | 467.50 | 40 | | | |
| Oct-95 | 470 | 8500 | 2 | | 373.25 | 41 | | | |
| Apr-96 | 340 | 8500 | 2 | | 395 | 42 | | | |
| Sep-96 | 170 | 8500 | 5 | | 255 | 255 | 9/17/1996 | semiannual | 43 |
| Apr-97 | 800 | 8500 | 20 | | 485 | 485 | 4/3/1997 | semiannual | 44 |
| Aug-97 | 720 | 8500 | 5 | | 760 | 760 | 8/27/1997 | semiannual | 45 |
| Mar-98 | 910 | 8500 | 10 | | 815 | 815 | 3/24/1998 | semiannual | 46 |
| Sep-98 | 3400 | 8500 | 10 | | 2155 | 2155 | 9/22/1998 | semiannual | 47 |
| May-99 | 480 | 8500 | 10 | | 1940 | 1940 | 5/11/1999 | semiannual | 48 |
| Oct-99 | 1160 | 8500 | 14 | | 820 | 820 | 10/5/1999 | semiannual | 49 |
| Nov-00 | 760 | 8500 | 2 | | 960 | 960 | 11/28/2000 | semiannual | 50 |
| Apr-01 | 1600 | 8500 | 2 | | 1180 | 1180 | 4/4/2001 | semiannual | 51 |
| Oct-01 | 860 | 8500 | 2 | | 1230 | 1230 | 10/18/2001 | semiannual | 52 |
| Apr-02 | 340 | 8500 | 2 | | 600 | 600 | 4/18/2002 | semiannual | 53 |
| Oct-02 | 360 | 8500 | 2 | | 350 | 350 | 10/3/2002 | semiannual | 54 |
| Apr-03 | 300 | 8500 | 2 | | 330 | 330 | 4/25/2003 | semiannual | 55 |
| Oct-03 | 1700 | 8500 | 2 | | 1000 | 1000 | 10/3/2003 | semiannual | 56 |
| Apr-04 | 1900 | 8500 | 4 | | 1800 | 1800 | 4/1/2004 | semiannual | 57 |
| Oct-04 | 3800 | 8500 | 4 | | 2850 | 2850 | 10/19/2004 | semiannual | 58 |
| Apr-05 | 2000 | 8500 | 4 | | 2900 | 2900 | 4/22/2005 | semiannual | 59 |
| Oct-05 | 4400 | 8500 | 4 | | 3200 | 3200 | 10/7/2005 | semiannual | 60 |
| May-06 | 1620 | 8500 | 4 | | 3010 | 3010 | 5/11/2006 | semiannual | 61 |
| Oct-06 | 1720 | 8500 | 4 | | 1670 | 1670 | 10/18/2006 | semiannual | 62 |
| May-07 | 6100 | 8500 | 4 | | 3910 | 3910 | 5/22/2007 | semiannual | 63 |
| Oct-07 | 2550 | 8500 | 4 | | 4325 | 4325 | 10/25/2007 | semiannual | 64 |
| Oct-08 | 600 | 8500 | 4 | | 1575 | 1575 | 10/23/2008 | semiannual | 65 |
| May-09 | 349 | 8500 | 4 | | 474.5 | 474.5 | 5/12/2009 | semiannual | 66 |
| Oct-09 | 197 | 8500 | 4 | | 273 | 273 | 10/29/2009 | semiannual | 67 |
| May-10 | 100 | 8500 | 4 | | 148.5 | 148.5 | 5/20/2010 | semiannual | 68 |
| Oct-10 | 100 | 8500 | 4 | | 100 | 100 | 10/18/2010 | semiannual | 69 |
| Jun-11 | 75 | 8500 | 4 | | 87.5 | 87.5 | 6/2/2011 | semiannual | 70 |
| Oct-11 | 200 | 8500 | 200 | | 137.5 | 137.5 | 10/12/2011 | semiannual | 71 |
| May-12 | 100 | 8500 | 100 | | 150 | 150 | 5/18/2012 | semiannual | 72 |
| Oct-12 | 400 | 8500 | 400 | | 250 | 250 | 10/11/2012 | semiannual | 73 |
| May-13 | 400 | 8500 | 400 | | 400 | 400 | 5/17/2013 | semiannual | 74 |
| Oct-13 | 200 | 8500 | 200 | | 300 | 300 | 10/11/2013 | semiannual | 75 |
| May-14 | 100 | 8500 | 30 | | 150 | 150 | 5/5/2014 | semiannual | 76 |
| Oct-14 | 500 | 8500 | 10 | | 300 | 300 | 10/6/2014 | semiannual | 77 |

MOVING AVERAGE TREND TEST

VDM-9

COPPER



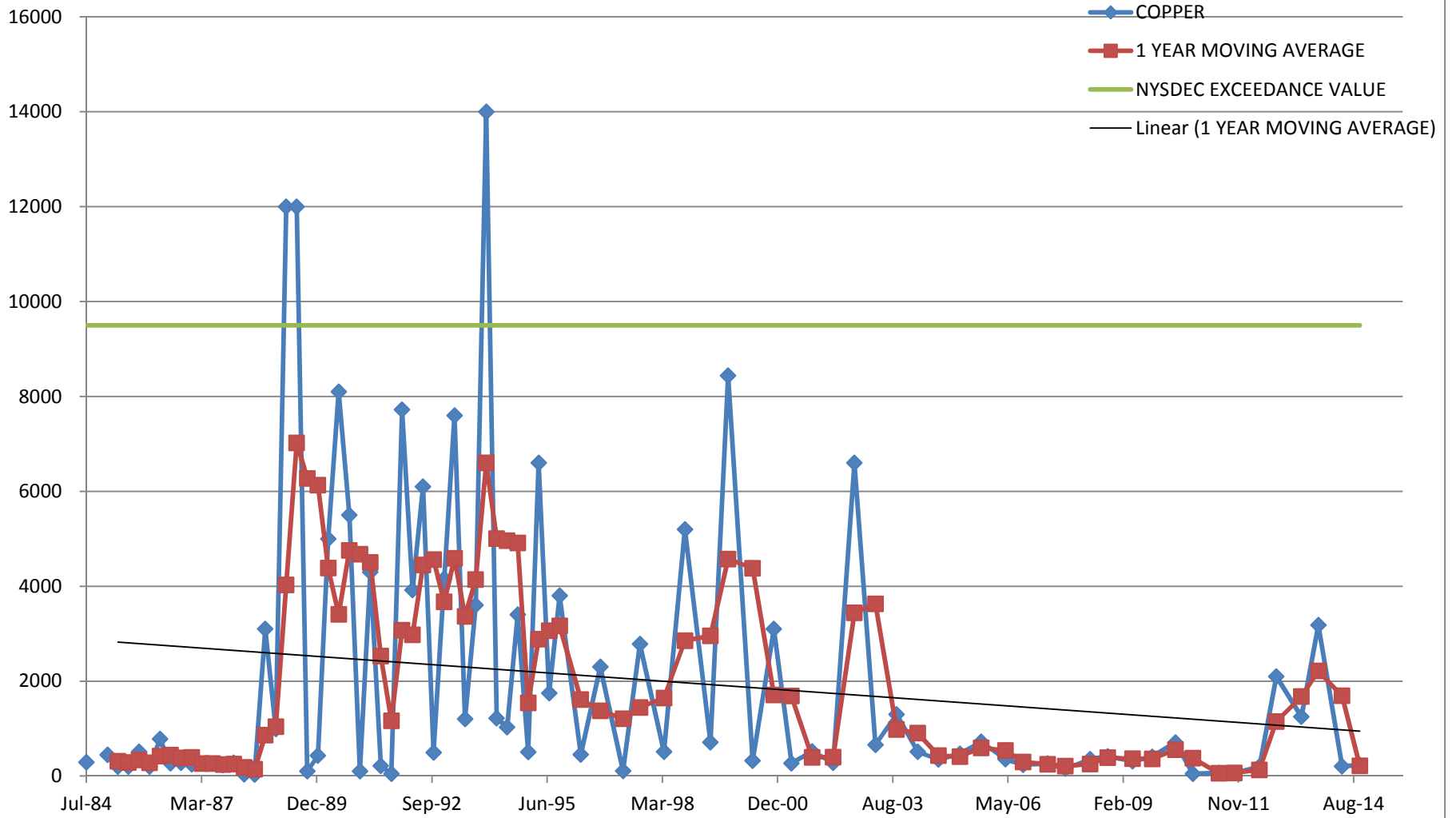
WELL VDM - 9 : COPPER

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|-------------------|---------------|--------------|
| Jan-87 | 7800 | 4000 | 200 | OTAL STD 2161.112 | | 1 |
| Apr-87 | 7700 | 4000 | 200 | TOTAL Sx 266.0145 | | 2 |
| Jul-87 | 6000 | 4000 | 200 | TAL MEAN 1834.045 | | 3 |
| Oct-87 | 4940 | 4000 | 200 | TOTAL N 67 | 6610 | 4 |
| Jan-88 | 243 | 4000 | 200 | TOTAL df 66 | 4720.75 | 5 |
| Apr-88 | 171 | 4000 | 200 | | 2838.5 | 6 |
| Jul-88 | 3000 | 4000 | 200 | | 2088.5 | 7 |
| Oct-88 | 3500 | 4000 | 200 | | 1728.5 | 8 |
| Jan-89 | 2200 | 4000 | 200 | | 2217.75 | 9 |
| Apr-89 | 3200 | 4000 | 200 | | 2975 | 10 |
| Jul-89 | 2200 | 4000 | 200 | | 2775 | 11 |
| Oct-89 | 2000 | 4000 | 200 | | 2400 | 12 |
| Jan-90 | 3100 | 4000 | 200 | | 2625 | 13 |
| Apr-90 | 2900 | 4000 | 200 | | 2550 | 14 |
| Jul-90 | 1800 | 4000 | 200 | | 2450 | 15 |
| Oct-90 | 2100 | 4000 | 200 | | 2475 | 16 |
| Jan-91 | 2100 | 4000 | 200 | | 2225 | 17 |
| Apr-91 | 3300 | 4000 | 200 | | 2325 | 18 |
| Jul-91 | 1680 | 4000 | 200 | | 2295 | 19 |
| Oct-91 | 3280 | 4000 | 200 | | 2590 | 20 |
| Jan-92 | 8240 | 4000 | 200 | | 4125 | 21 |
| Apr-92 | 10200 | 4000 | 200 | | 5850 | 22 |
| Jul-92 | 1990 | 4000 | 200 | | 5927.5 | 23 |
| Oct-92 | 4090 | 4000 | 200 | | 6130 | 24 |
| Jan-93 | 4000 | 4000 | 200 | | 5070 | 25 |
| Apr-93 | 1200 | 4000 | 200 | | 2820 | 26 |
| Jul-93 | 540 | 4000 | 200 | | 2457.5 | 27 |
| Oct-93 | 1300 | 4000 | 200 | | 1760 | 28 |
| Jan-94 | 1890 | 4000 | 200 | | 1232.5 | 29 |
| Apr-94 | 1050 | 4000 | 200 | | 1195 | 30 |
| Jul-94 | 620 | 4000 | 200 | | 1215 | 31 |
| Oct-94 | 2100 | 4000 | 200 | | 1415 | 32 |
| Jan-95 | 577 | 4000 | 200 | | 1086.75 | 33 |
| Apr-95 | 570 | 4000 | 200 | | 966.75 | 34 |
| Jul-95 | 2662 | 4000 | 200 | | 1477.25 | 35 |
| Oct-95 | 1600 | 4000 | 10 | | 1352.25 | 36 |
| Apr-96 | 394 | 4000 | 10 | | 1262.5 | 37 |
| Sep-96 | 1400 | 4000 | 10 | | 897 | 38 |
| Apr-97 | 10 | 4000 | 10 | | 705 | 39 |
| Aug-97 | 2380 | 4000 | 10 | | 1195 | 40 |
| Mar-98 | 130 | 4000 | 20 | | 1255 | 41 |
| Sep-98 | 1600 | 4000 | 20 | | 865 | 42 |
| May-99 | 967 | 4000 | 10 | | 1283.5 | 43 |
| Sep-99 | 2400 | 4000 | 10 | | 1683.5 | 44 |
| May-00 | 1070 | 4000 | 10 | | 1735 | 45 |
| Nov-00 | 5 | 4000 | 5 | | 537.5 | 46 |
| Apr-01 | 560 | 4000 | 10 | | 282.5 | 47 |
| Oct-01 | 2400 | 4000 | 10 | | 1480 | 48 |
| Apr-02 | 210 | 4000 | 5 | | 1305 | 49 |
| Oct-02 | 550 | 4000 | 5 | | 380 | 50 |
| Apr-03 | 520 | 4000 | 5 | | 535 | 51 |
| Oct-03 | 160 | 4000 | 10 | | 340 | 52 |
| Apr-04 | 120 | 4000 | 10 | | 140 | 53 |
| Oct-04 | 140 | 4000 | 10 | | 130 | 54 |
| Apr-05 | 28 | 4000 | 10 | | 84 | 55 |
| Oct-05 | 45 | 4000 | 10 | | 36.5 | 56 |
| May-06 | 133 | 4000 | 10 | | 89 | 57 |
| Oct-06 | 13 | 4000 | 10 | | 73 | 58 |
| May-07 | 10 | 4000 | 10 | | 11.5 | 59 |
| Oct-07 | 18 | 4000 | 10 | | 14 | 60 |
| May-08 | 32 | 4000 | 10 | | 25 | 61 |
| May-09 | 443 | 4000 | 10 | | 237.5 | 63 |
| Oct-09 | 951 | 4000 | 10 | | 697 | 64 |
| May-10 | 10 | 4000 | 10 | | 480.5 | 65 |
| Oct-10 | 200 | 4000 | 10 | | 105 | 66 |
| Jun-11 | 26 | 4000 | 10 | | 113 | 67 |
| Oct-11 | 113 | 4000 | 10 | | 69.5 | 68 |
| May-12 | 78 | 4000 | 10 | | 95.5 | 69 |
| Oct-12 | 178 | 4000 | 40 | | 128 | 70 |
| May-13 | 47 | 4000 | 400 | | 112.5 | 71 |
| Oct-13 | 75 | 4000 | 20 | | 61 | 72 |
| Jun-14 | 643 | 4000 | 32 | | 359 | 73 |
| Oct-14 | 474 | 4000 | 15 | | 558.5 | 74 |

MOVING AVERAGE TREND TEST

VDM-10

COPPER



WELL VDM - 10 : COPPER

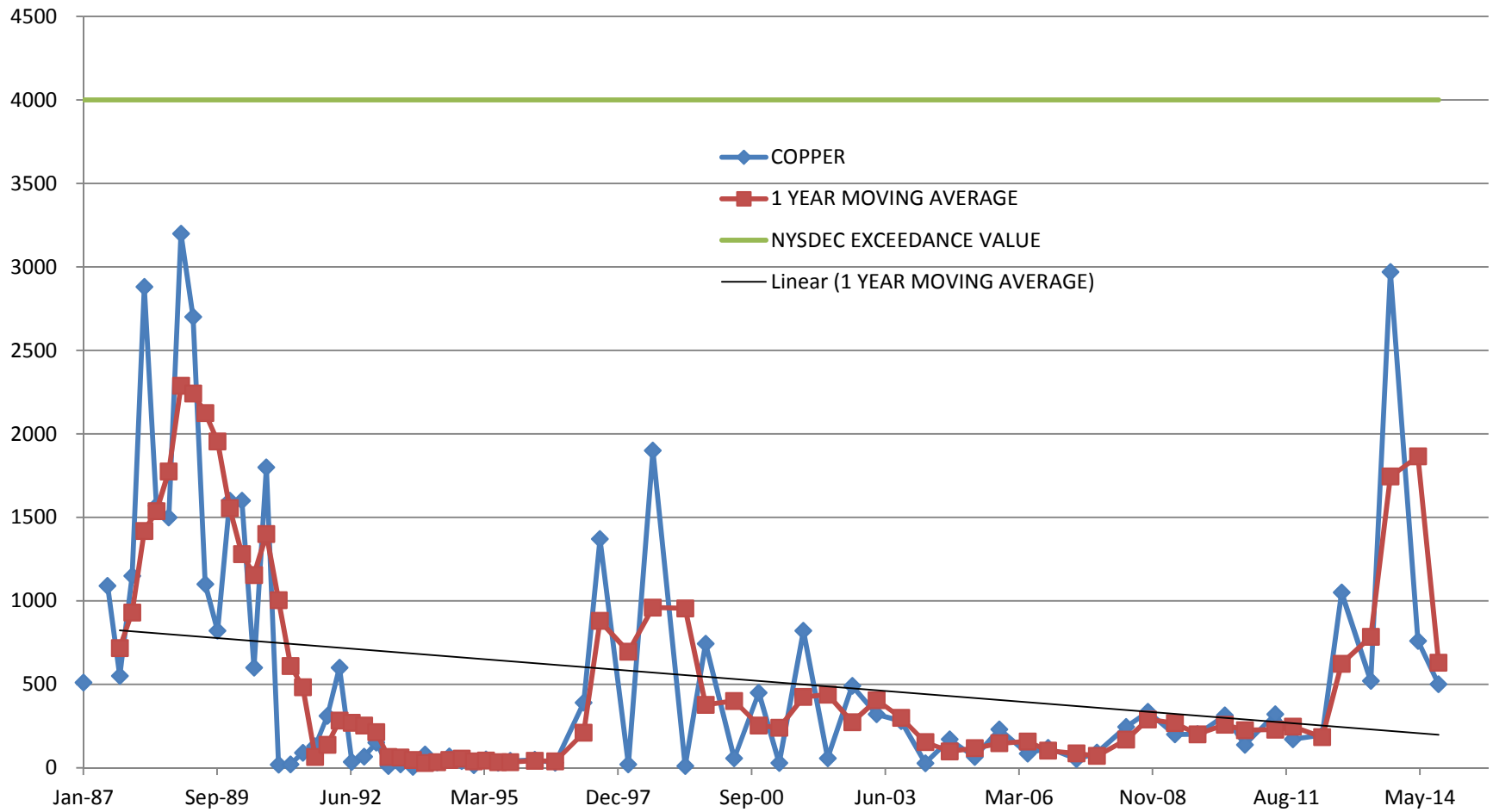
WELL VDM - 10 : COPPER

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVERAGE | SAMPLING EVENT NO. |
|-------------------|-------------|------------------------|----------------|----------------------|-------------------|--------------------------|
| Jul-84 | 290 | 9500 | 200 | TOTAL STD 3128.0101 | | 1 |
| Oct-84 | | 9500 | 200 | TOTAL Sx 363.62379 | | 2 |
| Jan-85 | 450 | 9500 | 200 | TOTAL MEAN 2159.7773 | | 3 |
| Apr-85 | 200 | 9500 | 200 | TOTAL N 75 | 313.33 | 4 |
| Jul-85 | 200 | 9500 | 200 | TOTAL df 74 | 283.33 | 5 |
| Oct-85 | 510 | 9500 | 200 | | 340.00 | 6 |
| Jan-86 | 200 | 9500 | 200 | | 277.50 | 7 |
| Apr-86 | 780 | 9500 | 200 | | 422.50 | 8 |
| Jul-86 | 270 | 9500 | 200 | | 440.00 | 9 |
| Oct-86 | 280 | 9500 | 200 | | 382.50 | 10 |
| Jan-87 | 250 | 9500 | 200 | | 395.00 | 11 |
| Apr-87 | | 9500 | 200 | | 266.67 | 12 |
| Jul-87 | | 9500 | 200 | | 265.00 | 13 |
| Oct-87 | 230 | 9500 | 200 | | 240.00 | 14 |
| Jan-88 | 280 | 9500 | 200 | | 255.00 | 15 |
| Apr-88 | 35 | 9500 | 200 | | 181.67 | 16 |
| Jul-88 | 30 | 9500 | 200 | | 143.75 | 17 |
| Oct-88 | 3100 | 9500 | 200 | | 861.25 | 18 |
| Jan-89 | 990 | 9500 | 200 | | 1038.75 | 19 |
| Apr-89 | 12000 | 9500 | 200 | | 4030.00 | 20 |
| Jul-89 | 12000 | 9500 | 200 | | 7022.50 | 21 |
| Oct-89 | 100 | 9500 | 200 | | 6272.50 | 22 |
| Jan-90 | 430 | 9500 | 200 | | 6132.50 | 23 |
| Apr-90 | 5000 | 9500 | 200 | | 4382.50 | 24 |
| Jul-90 | 8100 | 9500 | 200 | | 3407.50 | 25 |
| Oct-90 | 5500 | 9500 | 200 | | 4757.50 | 26 |
| Jan-91 | 100 | 9500 | 200 | | 4675.00 | 27 |
| Apr-91 | 4300 | 9500 | 200 | | 4500.00 | 28 |
| Jul-91 | 215 | 9500 | 200 | | 2528.75 | 29 |
| Oct-91 | 50 | 9500 | 200 | | 1166.25 | 30 |
| Jan-92 | 7720 | 9500 | 200 | | 3071.25 | 31 |
| Apr-92 | 3920 | 9500 | 200 | | 2976.25 | 32 |
| Jul-92 | 6100 | 9500 | 200 | | 4447.50 | 33 |
| Oct-92 | 498 | 9500 | 200 | | 4559.50 | 34 |
| Jan-93 | 4160 | 9500 | 200 | | 3669.50 | 35 |
| Apr-93 | 7600 | 9500 | 200 | | 4589.50 | 36 |
| Jul-93 | 1200 | 9500 | 200 | | 3364.50 | 37 |
| Oct-93 | 3600 | 9500 | 200 | | 4140.00 | 38 |
| Jan-94 | 14000 | 9500 | 200 | | 6600.00 | 39 |
| Apr-94 | 1220 | 9500 | 200 | | 5005.00 | 40 |
| Jul-94 | 1030 | 9500 | 200 | | 4962.50 | 41 |
| Oct-94 | 3400 | 9500 | 200 | | 4912.50 | 42 |
| Jan-95 | 508 | 9500 | 200 | | 1539.50 | 43 |
| Apr-95 | 6600 | 9500 | 200 | | 2884.50 | 44 |
| Jul-95 | 1745 | 9500 | 200 | | 3063.25 | 45 |
| Oct-95 | 3800 | 9500 | 10 | | 3163.25 | 46 |
| Apr-96 | 453 | 9500 | 10 | | 1612.75 | 47 |
| Sep-96 | 2300 | 9500 | 10 | | 1376.5 | 48 |
| Apr-97 | 110 | 9500 | 10 | | 1205 | 49 |
| Aug-97 | 2780 | 9500 | 10 | | 1445 | 50 |
| Mar-98 | 510 | 9500 | 20 | | 1645 | 51 |
| Sep-98 | 5200 | 9500 | 20 | | 2855 | 52 |
| May-99 | 709 | 9500 | 10 | | 2954.5 | 53 |
| Oct-99 | 8440 | 9500 | 10 | | 4574.5 | 54 |
| May-00 | 322 | 9500 | 10 | | 4381 | 55 |
| Nov-00 | 3100 | 9500 | 5 | | 1711 | 56 |
| Apr-01 | 270 | 9500 | 10 | | 1685 | 57 |
| Oct-01 | 520 | 9500 | 10 | | 395 | 58 |
| Apr-02 | 280 | 9500 | 5 | | 400 | 59 |
| Oct-02 | 6600 | 9500 | 5 | | 3440 | 60 |
| Apr-03 | 660 | 9500 | 5 | | 3630 | 61 |
| Oct-03 | 1300 | 9500 | 10 | | 980 | 62 |
| Apr-04 | 510 | 9500 | 10 | | 905 | 63 |
| Oct-04 | 350 | 9500 | 10 | | 430 | 64 |
| Apr-05 | 470 | 9500 | 10 | | 410 | 65 |
| Oct-05 | 720 | 9500 | 10 | | 595 | 66 |
| May-06 | 353 | 9500 | 10 | | 536.5 | 67 |
| Oct-06 | 238 | 9500 | 10 | | 295.5 | 68 |
| May-07 | 262 | 9500 | 10 | | 250 | 69 |
| Oct-07 | 156 | 9500 | 10 | | 209 | 70 |
| May-08 | 355 | 9500 | 10 | | 255.5 | 71 |
| Oct-08 | 417 | 9500 | 10 | | 386 | 72 |
| May-09 | 315 | 9500 | 10 | | 366 | 73 |
| Oct-09 | 405 | 9500 | 10 | | 360 | 74 |
| May-10 | 708 | 9500 | 10 | | 556.5 | 75 |
| Oct-10 | 48.3 | 9500 | 10 | | 378.15 | 76 |
| Jun-11 | 67 | 9500 | 10 | | 57.65 | 77 |
| Oct-11 | 64 | 9500 | 10 | | 65.5 | 78 |
| May-12 | 199 | 9500 | 10 | | 131.5 | 79 |
| Oct-12 | 2100 | 9500 | 40 | | 1149.5 | 80 |
| May-13 | 1250 | 9500 | 400 | | 1675 | 81 |
| Oct-13 | 3180 | 9500 | 20 | | 2215 | 82 |
| May-14 | 205 | 9500 | 32000 | | 1692.5 | 83 |
| Oct-14 | 231 | 9500 | 15 | | 218 | 84 |

MOVING AVERAGE TREND TEST

VDM-11

COPPER



WELL VDM - 11 : COPPER

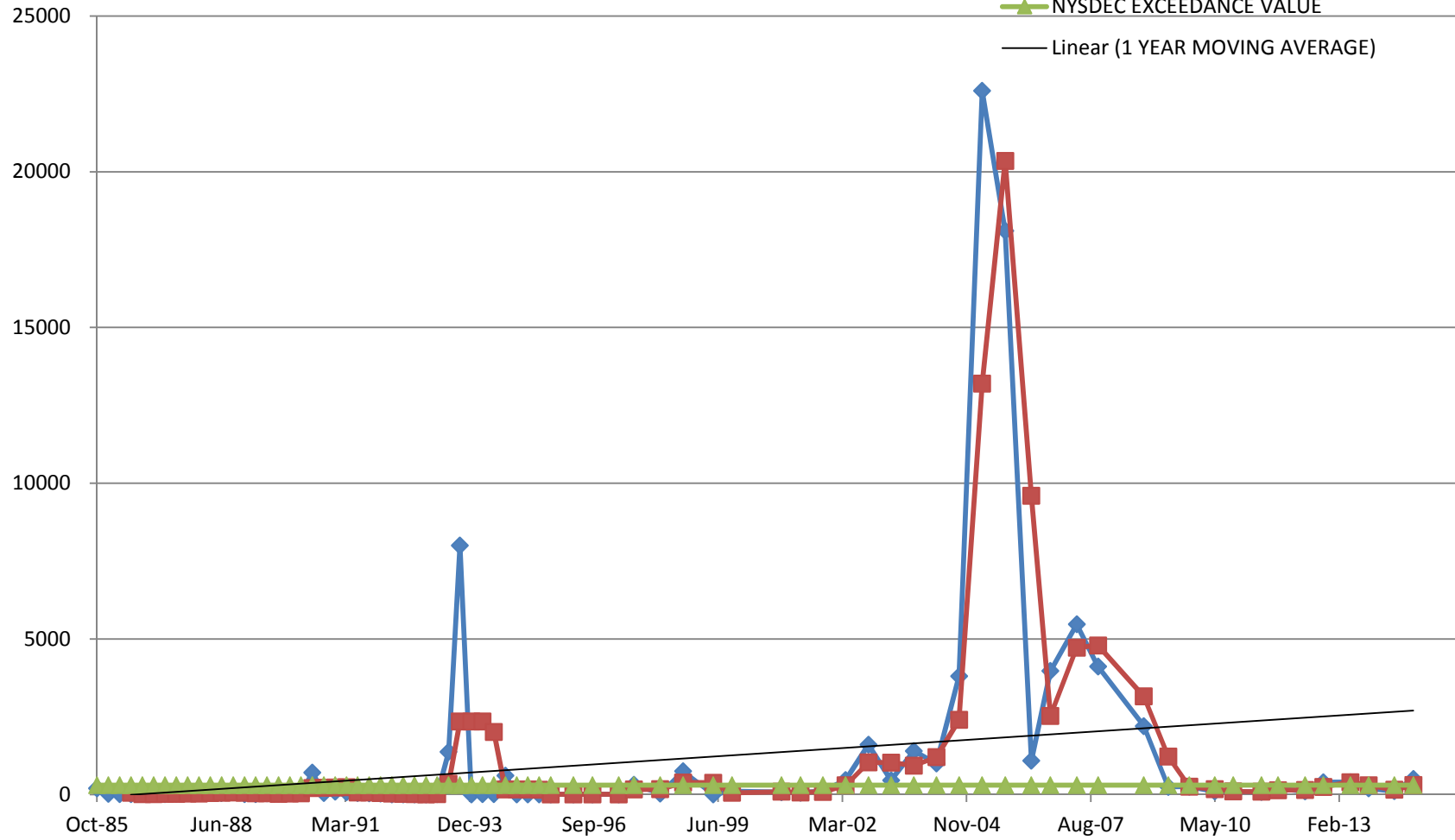
| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|--------------------------|-------------|------------------------|-----------------|---------------------|---------------|--------------|
| - | - | - | - | - | - | - |
| Jan-87 | 510 | 4000 | 200 | TOTAL STD 721.9995 | | 1 |
| Apr-87 | | 4000 | 200 | TOTAL Sx 88.2063 | | 2 |
| Jul-87 | 1090 | 4000 | 200 | TOTAL MEAN 506.6647 | | 3 |
| Oct-87 | 550 | 4000 | 200 | TOTAL N 68 | 716.67 | 4 |
| Jan-88 | 1150 | 4000 | 200 | TOTAL df 67 | 930.00 | 5 |
| Apr-88 | 2880 | 4000 | 200 | | 1417.50 | 6 |
| Jul-88 | 1570 | 4000 | 200 | | 1537.50 | 7 |
| Oct-88 | 1500 | 4000 | 200 | | 1775.00 | 8 |
| Jan-89 | 3200 | 4000 | 200 | | 2287.50 | 9 |
| Apr-89 | 2700 | 4000 | 200 | | 2242.50 | 10 |
| Jul-89 | 1100 | 4000 | 200 | | 2125.00 | 11 |
| Oct-89 | 820 | 4000 | 200 | | 1955.00 | 12 |
| Jan-90 | 1600 | 4000 | 200 | | 1555.00 | 13 |
| Apr-90 | 1600 | 4000 | 200 | | 1280.00 | 14 |
| Jul-90 | 600 | 4000 | 200 | | 1155.00 | 15 |
| Oct-90 | 1800 | 4000 | 200 | | 1400.00 | 16 |
| Jan-91 | 19 | 4000 | 200 | | 1004.75 | 17 |
| Apr-91 | 21 | 4000 | 200 | | 610.00 | 18 |
| Jul-91 | 90 | 4000 | 200 | | 482.50 | 19 |
| Oct-91 | 130 | 4000 | 200 | | 65.00 | 20 |
| Jan-92 | 310 | 4000 | 200 | | 137.75 | 21 |
| Apr-92 | 600 | 4000 | 200 | | 282.50 | 22 |
| Jul-92 | 35.5 | 4000 | 200 | | 268.88 | 23 |
| Oct-92 | 66.7 | 4000 | 200 | | 253.05 | 24 |
| Jan-93 | 150 | 4000 | 200 | | 213.05 | 25 |
| Apr-93 | 10 | 4000 | 200 | | 65.55 | 26 |
| Jul-93 | 20 | 4000 | 200 | | 61.68 | 27 |
| Oct-93 | 5 | 4000 | 200 | | 46.25 | 28 |
| Jan-94 | 80 | 4000 | 200 | | 28.75 | 29 |
| Apr-94 | 31 | 4000 | 200 | | 34.00 | 30 |
| Jul-94 | 68 | 4000 | 200 | | 46.00 | 31 |
| Oct-94 | 40 | 4000 | 200 | | 54.75 | 32 |
| Jan-95 | 15 | 4000 | 200 | | 38.50 | 33 |
| Apr-95 | 50 | 4000 | 200 | | 43.25 | 34 |
| Jul-95 | 30 | 4000 | 200 | | 33.75 | 35 |
| Oct-95 | 41 | 4000 | 10 | | 34.00 | 36 |
| Apr-96 | 48 | 4000 | 10 | | 41.75 | 37 |
| Sep-96 | 30 | 4000 | 30 | | 39 | 38 |
| Apr-97 | 390 | 4000 | 10 | | 210 | 39 |
| Aug-97 | 1370 | 4000 | 10 | | 880 | 40 |
| Mar-98 | 20 | 4000 | 20 | | 695 | 41 |
| Sep-98 | 1900 | 4000 | 20 | | 960 | 42 |
| May-99 | 10 | 4000 | 10 | | 955 | 43 |
| Oct-99 | 744 | 4000 | 10 | | 377 | 44 |
| May-00 | 56 | 4000 | 10 | | 400 | 45 |
| Nov-00 | 450 | 4000 | 5 | | 253 | 46 |
| Apr-01 | 28 | 4000 | 10 | | 239 | 47 |
| Oct-01 | 820 | 4000 | 10 | | 424 | 48 |
| Apr-02 | 57 | 4000 | 5 | | 438.5 | 49 |
| Oct-02 | 490 | 4000 | 5 | | 273.5 | 50 |
| Apr-03 | 320 | 4000 | 5 | | 405 | 51 |
| Oct-03 | 280 | 4000 | 10 | | 300 | 52 |
| Apr-04 | 27 | 4000 | 10 | | 153.5 | 53 |
| Oct-04 | 170 | 4000 | 10 | | 98.5 | 54 |
| Apr-05 | 64 | 4000 | 10 | | 117 | 55 |
| Oct-05 | 230 | 4000 | 10 | | 147 | 56 |
| May-06 | 85 | 4000 | 10 | | 157.5 | 57 |
| Oct-06 | 120 | 4000 | 10 | | 102.5 | 58 |
| May-07 | 51 | 4000 | 10 | | 85.5 | 59 |
| Oct-07 | 91 | 4000 | 10 | | 71 | 60 |
| May-08 | 245 | 4000 | 10 | | 168 | 61 |
| Oct-08 | 335 | 4000 | 10 | | 290 | 62 |
| May-09 | 200 | 4000 | 10 | | 267.5 | 63 |
| Oct-09 | 201 | 4000 | 10 | | 200.5 | 64 |
| May-10 | 314 | 4000 | 10 | | 257.5 | 65 |
| Oct-10 | 137 | 4000 | 10 | | 225.5 | 66 |
| Jun-11 | 321 | 4000 | 10 | | 229 | 67 |
| Oct-11 | 171 | 4000 | 10 | | 246 | 68 |
| May-12 | 196 | 4000 | 10 | | 183.5 | 69 |
| Oct-12 | 1050 | 4000 | 40 | | 623 | 70 |
| May-13 | 520 | 4000 | 400 | | 785 | 71 |
| Oct-13 | 2970 | 4000 | 20 | | 1745 | 72 |
| May-14 | 760 | 4000 | 32 | | 1865 | 73 |
| Oct-14 | 500 | 4000 | 15 | | 630 | 74 |

MOVING AVERAGE TREND TEST

VDM-14

COPPER

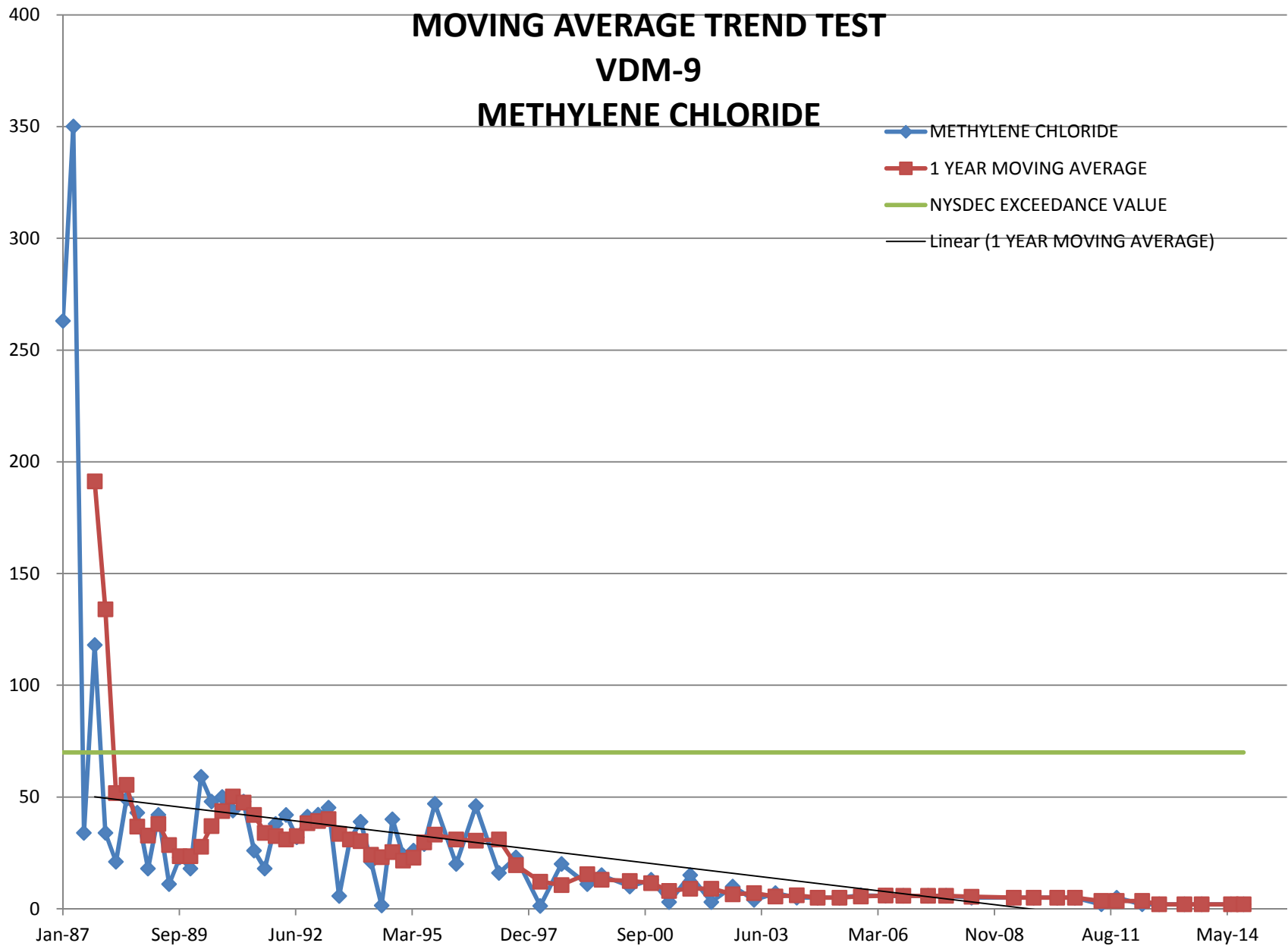
- ◆ COPPER
- 1 YEAR MOVING AVERAGE
- ▲ NYSDEC EXCEEDANCE VALUE
- Linear (1 YEAR MOVING AVERAGE)



WELL VDM - 14 : COPPER

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | |
|-------------------|-------------|------------------------|-----------------|--------------------|---------------|-----------------------------|----|
| Oct-85 | 200 | 300 | 200 | TOTAL STE 3543.745 | | 1 | |
| Jan-86 | 21 | 300 | 200 | TOTAL Sx 420.5651 | | 2 | |
| Apr-86 | 14 | 300 | 200 | TOTAL MEA 1123.847 | | 3 | |
| Jul-86 | 15 | 300 | 200 | TOTAL N 72 | 62.50 | 4 | |
| Oct-86 | 28 | 300 | 200 | TOTAL df 71 | 19.50 | 5 | |
| Jan-87 | 22 | 300 | 200 | | 19.75 | 6 | |
| Apr-87 | 18 | 300 | 200 | | 20.75 | 7 | |
| Jul-87 | 26 | 300 | 200 | | 23.50 | 8 | |
| Oct-87 | 50 | 300 | 200 | | 29.00 | 9 | |
| Jan-88 | 50 | 300 | 200 | | 36.00 | 10 | |
| Apr-88 | 80 | 300 | 200 | | 51.50 | 11 | |
| Jul-88 | 60 | 300 | 200 | | 60.00 | 12 | |
| Oct-88 | 80 | 300 | 200 | | 67.50 | 13 | |
| Jan-89 | 19 | 300 | 200 | | 59.75 | 14 | |
| Apr-89 | 16 | 300 | 200 | | 43.75 | 15 | |
| Jul-89 | 40 | 300 | 200 | | 38.75 | 16 | |
| Oct-89 | 39 | 300 | 200 | | 28.50 | 17 | |
| Jan-90 | 50 | 300 | 200 | | 36.25 | 18 | |
| Apr-90 | 50 | 300 | 200 | | 44.75 | 19 | |
| Jul-90 | 710 | 300 | 200 | | 212.25 | 20 | |
| Oct-90 | 50 | 300 | 200 | | 215.00 | 21 | |
| Jan-91 | 93.3 | 300 | 200 | | 225.83 | 22 | |
| Apr-91 | 79.7 | 300 | 200 | | 233.25 | 23 | |
| Jul-91 | 50 | 300 | 200 | | 68.25 | 24 | |
| Oct-91 | 40 | 300 | 200 | | 65.75 | 25 | |
| Jan-92 | 30 | 300 | 200 | | 49.93 | 26 | |
| Apr-92 | 5 | 300 | 200 | | 31.25 | 27 | |
| Jul-92 | 10 | 300 | 200 | | 21.25 | 28 | |
| Oct-92 | 10 | 300 | 200 | | 13.75 | 29 | |
| Jan-93 | 10 | 300 | 200 | | 8.75 | 30 | |
| Apr-93 | 18 | 300 | 200 | | 12.00 | 31 | |
| Jul-93 | 1370 | 300 | 200 | | 352.00 | 32 | |
| Oct-93 | 8000 | 300 | 200 | | 2349.50 | 33 | |
| Jan-94 | 10 | 300 | 200 | | 2349.50 | 34 | |
| Apr-94 | 15 | 300 | 200 | | 2348.75 | 35 | |
| Jul-94 | 18 | 300 | 200 | | 2010.75 | 36 | |
| Oct-94 | 610 | 300 | 200 | | 163.25 | 37 | |
| Jan-95 | 10 | 300 | 200 | | 163.25 | 38 | |
| Apr-95 | 10 | 300 | 200 | | 162.00 | 39 | |
| Jul-95 | 10 | 300 | 200 | | 160.00 | 40 | |
| Oct-95 | 10 | 300 | 10 | | 10.00 | 41 | |
| Apr-96 | 10 | 300 | 10 | | 10 | 42 | |
| Sep-96 | 10 | 300 | 10 | | 10 | 10 9/17/1996 semiannual | 43 |
| Apr-97 | 10 | 300 | 10 | | 10 | 10 4/3/1997 semiannual | 44 |
| Aug-97 | 320 | 300 | 10 | | 165 | 165 8/27/1997 semiannual | 45 |
| Mar-98 | 30 | 300 | 20 | | 175 | 175 3/24/1998 semiannual | 46 |
| Sep-98 | 750 | 300 | 20 | | 390 | 390 9/22/1998 semiannual | 47 |
| May-99 | 10 | 300 | 10 | | 380 | 380 5/11/1999 semiannual | 48 |
| Oct-99 | 106 | 300 | 10 | | 58 | 58 10/5/1999 semiannual | 49 |
| Nov-00 | 81 | 300 | 5 | | 93.5 | 93.5 11/28/2000 semiannual | 50 |
| Apr-01 | 60 | 300 | 10 | | 70.5 | 70.5 4/4/2001 semiannual | 51 |
| Oct-01 | 120 | 300 | 10 | | 90 | 90 10/18/2001 semiannual | 52 |
| Apr-02 | 470 | 300 | 5 | | 295 | 295 4/18/2002 semiannual | 53 |
| Oct-02 | 1600 | 300 | 5 | | 1035 | 1035 10/3/2002 semiannual | 54 |
| Apr-03 | 460 | 300 | 5 | | 1030 | 1030 4/25/2003 semiannual | 55 |
| Oct-03 | 1400 | 300 | 5 | | 930 | 930 10/3/2003 semiannual | 56 |
| Apr-04 | 1000 | 300 | 100 | | 1200 | 1200 4/1/2004 semiannual | 57 |
| Oct-04 | 3800 | 300 | 100 | | 2400 | 2400 10/19/2004 semiannual | 58 |
| Apr-05 | 22600 | 300 | 100 | | 13200 | 13200 4/22/2005 semiannual | 59 |
| Oct-05 | 18100 | 300 | 100 | | 20350 | 20350 10/7/2005 semiannual | 60 |
| May-06 | 1090 | 300 | 100 | | 9595 | 9595 5/11/2006 semiannual | 61 |
| Oct-06 | 3970 | 300 | 100 | | 2530 | 2530 10/18/2006 semiannual | 62 |
| May-07 | 5470 | 300 | 100 | | 4720 | 4720 5/22/2007 semiannual | 63 |
| Oct-07 | 4110 | 300 | 100 | | 4790 | 4790 10/25/2007 semiannual | 64 |
| Oct-08 | 2200 | 300 | 100 | | 3155 | 3155 10/27/2008 semiannual | 65 |
| May-09 | 250 | 300 | 100 | | 1225 | 1225 5/12/2009 semiannual | 66 |
| Oct-09 | 258 | 300 | 100 | | 254 | 254 10/29/2009 semiannual | 67 |
| May-10 | 100 | 300 | 100 | | 179 | 179 5/20/2010 semiannual | 68 |
| Oct-10 | 100 | 300 | 100 | | 100 | 100 10/18/2010 semiannual | 69 |
| Jun-11 | 85 | 300 | 100 | | 92.5 | 92.5 6/2/2011 semiannual | 70 |
| Oct-11 | 200 | 300 | 200 | | 142.5 | 142.5 10/12/2011 semiannual | 71 |
| May-12 | 100 | 300 | 100 | | 150 | 150 5/18/2012 semiannual | 72 |
| Oct-12 | 400 | 300 | 400 | | 250 | 250 10/11/2012 semiannual | 73 |
| May-13 | 400 | 300 | 400 | | 400 | 400 5/17/2013 semiannual | 74 |
| Oct-13 | 200 | 300 | 200 | | 300 | 300 10/11/2013 semiannual | 75 |
| May-14 | 110 | 300 | 32 | | 155 | 155 5/5/2014 semiannual | 76 |
| Oct-14 | 500 | 300 | 15 | | 305 | 305 10/6/2014 semiannual | 77 |

MOVING AVERAGE TREND TEST VDM-9 METHYLENE CHLORIDE



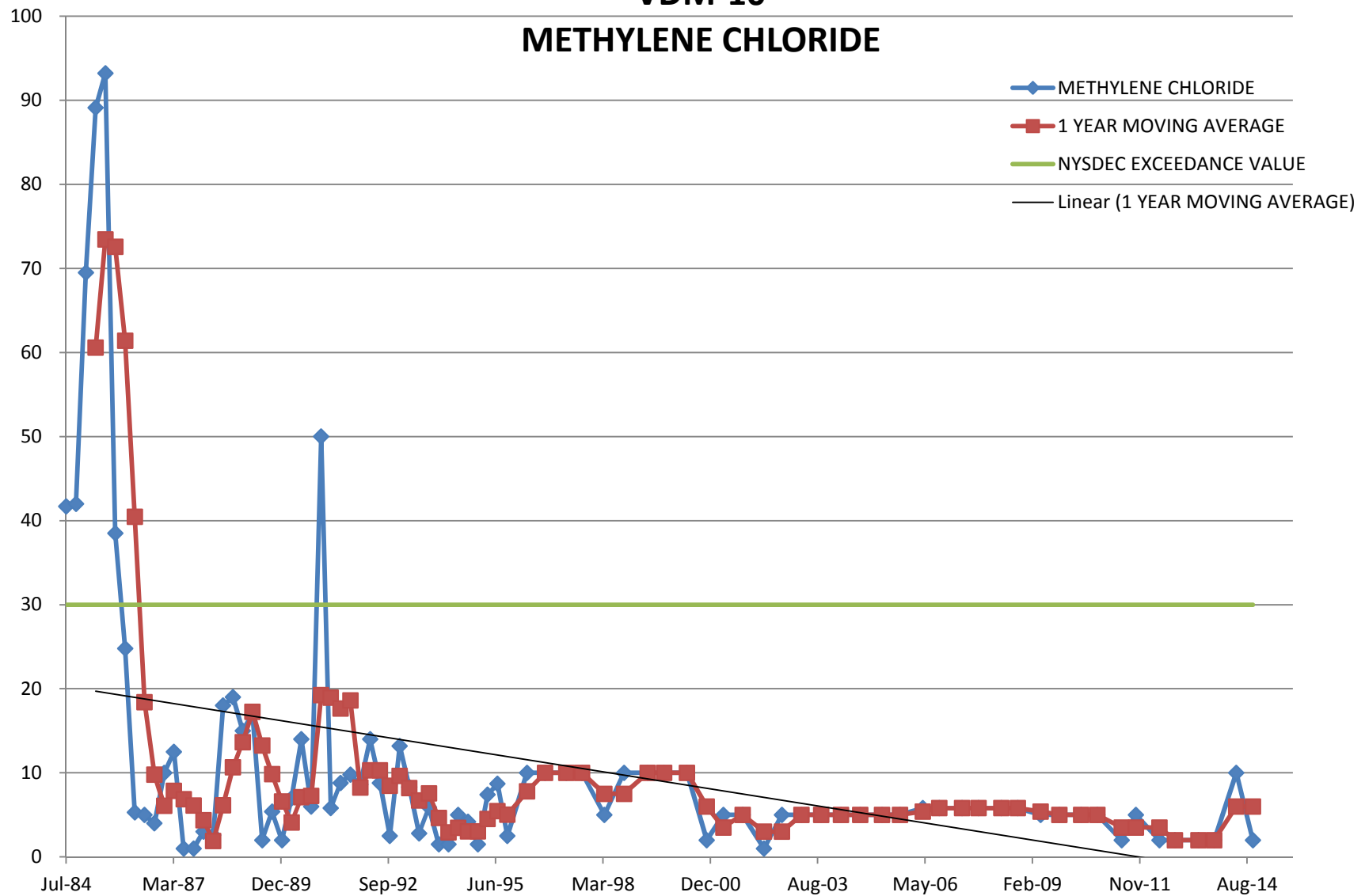
WELL VDM - 9 : METHYLENE CHLORIDE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | |
|-------------------|-------------|------------------------|-----------------|---------------------|---------------|---------------------------|----|
| Jan-87 | 263 | 70 | 5 | TOTAL STD 52.70811 | | 1 | |
| Apr-87 | 350 | 70 | 5 | TOTAL Sx 6.48792 | | 2 | |
| Jul-87 | 34 | 70 | 5 | TOTAL MEAN 31.57015 | | 3 | |
| Oct-87 | 118 | 70 | 5 | TOTAL N 67 | 191.25 | 4 | |
| Jan-88 | 34 | 70 | 5 | TOTAL df 66 | 134.00 | 5 | |
| Apr-88 | 21 | 70 | 5 | | 51.75 | 6 | |
| Jul-88 | 49 | 70 | 5 | | 55.50 | 7 | |
| Oct-88 | 43 | 70 | 5 | | 36.75 | 8 | |
| Jan-89 | 18 | 70 | 5 | | 32.75 | 9 | |
| Apr-89 | 42 | 70 | 5 | | 38.00 | 10 | |
| Jul-89 | 11 | 70 | 5 | | 28.50 | 11 | |
| Oct-89 | 23 | 70 | 5 | | 23.50 | 12 | |
| Jan-90 | 18 | 70 | 5 | | 23.50 | 13 | |
| Apr-90 | 59 | 70 | 5 | | 27.75 | 14 | |
| Jul-90 | 48 | 70 | 5 | | 37.00 | 15 | |
| Oct-90 | 50 | 70 | 5 | | 43.75 | 16 | |
| Jan-91 | 44 | 70 | 5 | | 50.25 | 17 | |
| Apr-91 | 48 | 70 | 5 | | 47.50 | 18 | |
| Jul-91 | 26 | 70 | 5 | | 42.00 | 19 | |
| Oct-91 | 18 | 70 | 5 | | 34.00 | 20 | |
| Jan-92 | 38 | 70 | 5 | | 32.50 | 21 | |
| Apr-92 | 42 | 70 | 5 | | 31.00 | 22 | |
| Jul-92 | 32 | 70 | 5 | | 32.50 | 23 | |
| Oct-92 | 41.2 | 70 | 5 | | 38.30 | 24 | |
| Jan-93 | 42.1 | 70 | 5 | | 39.33 | 25 | |
| Apr-93 | 45.2 | 70 | 5 | | 40.13 | 26 | |
| Jul-93 | 5.7 | 70 | 5 | | 33.55 | 27 | |
| Oct-93 | 31 | 70 | 5 | | 31.00 | 28 | |
| Jan-94 | 39 | 70 | 5 | | 30.23 | 29 | |
| Apr-94 | 21 | 70 | 5 | | 24.18 | 30 | |
| Jul-94 | 2 | 70 | 5 | | 23.13 | 31 | |
| Oct-94 | 40 | 70 | 5 | | 25.38 | 32 | |
| Jan-95 | 24 | 70 | 5 | | 21.63 | 33 | |
| Apr-95 | 26 | 70 | 5 | | 22.88 | 34 | |
| Jul-95 | 29 | 70 | 5 | | 29.75 | 35 | |
| Oct-95 | 47 | 70 | 5 | | 33.20 | 36 | |
| Apr-96 | 20 | 70 | 5 | | 31.00 | 29 04/01/96 | 37 |
| Sep-96 | 46 | 70 | 10 | | 30.50 | 33 09/17/96 semiannual | 38 |
| Apr-97 | 16 | 70 | 10 | | 31 | 31 04/03/97 semiannual | 39 |
| Aug-97 | 23 | 70 | 10 | | 19.5 | 19.5 08/27/97 semiannual | 40 |
| Mar-98 | 1.3 | 70 | 5 | | 12.15 | 12.15 03/24/98 semiannual | 41 |
| Sep-98 | 20 | 70 | 5 | | 10.65 | 10.65 09/22/98 semiannual | 42 |
| May-99 | 11 | 70 | 10 | | 15.5 | 15.5 05/11/99 semiannual | 43 |
| Sep-99 | 15 | 70 | 10 | | 13 | 13 09/29/99 semiannual | 44 |
| May-00 | 10 | 70 | 10 | | 12.5 | 12.5 05/16/00 semiannual | 45 |
| Nov-00 | 13 | 70 | 5 | | 11.5 | 11.5 11/28/00 semiannual | 46 |
| Apr-01 | 3 | 70 | 5 | | 8 | 8 04/04/01 semiannual | 47 |
| Oct-01 | 15 | 70 | 5 | | 9 | 9 10/18/01 semiannual | 48 |
| Apr-02 | 3 | 70 | 5 | | 9 | 9 04/18/02 semiannual | 49 |
| Oct-02 | 10 | 70 | 5 | | 6.5 | 6.5 10/03/02 semiannual | 50 |
| Apr-03 | 4 | 70 | 5 | | 7 | 7 04/25/03 semiannual | 51 |
| Oct-03 | 7 | 70 | 5 | | 5.5 | 5.5 10/03/03 semiannual | 52 |
| Apr-04 | 5 | 70 | 5 | | 6 | 6 04/01/04 semiannual | 53 |
| Oct-04 | 5 | 70 | 5 | | 5 | 5 10/19/04 semiannual | 54 |
| Apr-05 | 5 | 70 | 5 | | 5 | 5 04/22/05 semiannual | 55 |
| Oct-05 | 6 | 70 | 5 | | 5.5 | 5.5 10/07/05 semiannual | 56 |
| May-06 | 5.8 | 70 | 5 | | 5.9 | 5.9 05/11/06 semiannual | 57 |
| Oct-06 | 5.8 | 70 | 5 | | 5.8 | 5.8 10/18/06 semiannual | 58 |
| May-07 | 5.8 | 70 | 5 | | 5.8 | 5.8 05/22/07 semiannual | 59 |
| Oct-07 | 5.8 | 70 | 5 | | 5.8 | 5.8 10/25/07 semiannual | 60 |
| May-08 | 5 | 70 | 5 | | 5.4 | 5.4 05/13/08 semiannual | 61 |
| May-09 | 5 | 70 | 5 | | 5 | 5 05/12/09 semiannual | 63 |
| Oct-09 | 5 | 70 | 5 | | 5 | 5 10/29/09 semiannual | 64 |
| May-10 | 5 | 70 | 5 | | 5 | 5 05/20/10 semiannual | 65 |
| Oct-10 | 5 | 70 | 5 | | 5 | 5 10/18/10 semiannual | 66 |
| Jun-11 | 2 | 70 | 5 | | 3.5 | 3.5 06/02/11 semiannual | 67 |
| Oct-11 | 5 | 70 | 5 | | 3.5 | 3.5 10/12/11 semiannual | 68 |
| May-12 | 2 | 70 | 2 | | 3.5 | 3.5 05/18/12 semiannual | 69 |
| Oct-12 | 2 | 70 | 2 | | 2 | 2 10/11/12 semiannual | 70 |
| May-13 | 2 | 70 | 2 | | 2 | 2 05/17/13 semiannual | 71 |
| Oct-13 | 2 | 70 | 2 | | 2 | 2 10/11/13 semiannual | 72 |
| Jun-14 | 2 | 70 | 2 | | 2 | 2 06/20/14 semiannual | 73 |
| Oct-14 | 2 | 70 | 2 | | 2 | 2 10/06/14 semiannual | 74 |

MOVING AVERAGE TREND TEST

VDM-10

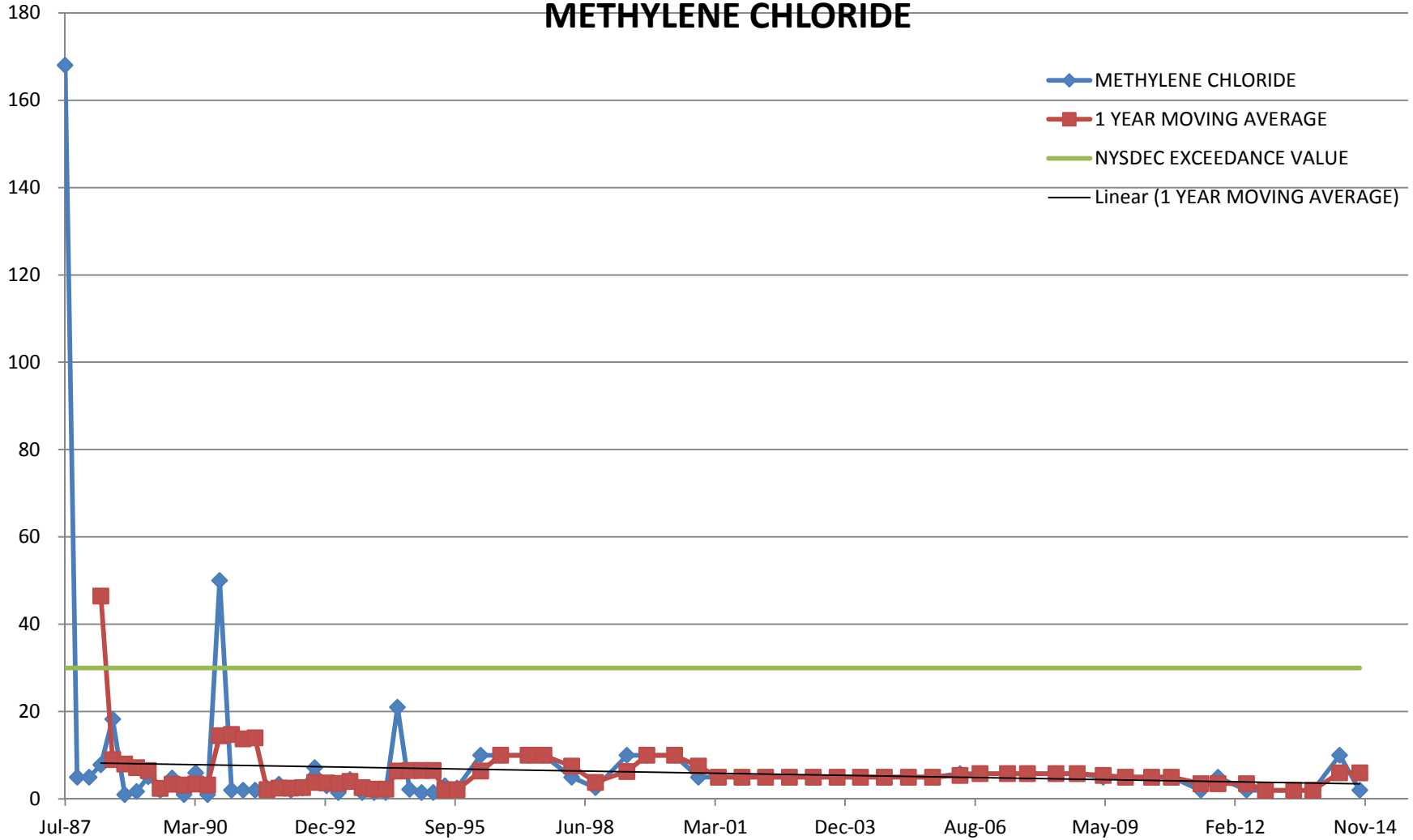
METHYLENE CHLORIDE



WELL VDM - 10 : METHYLENE CHLORIDE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVERAGE | SAMPLING EVENT NO. |
|-------------------|-------------|------------------------|----------------|----------------------|-------------------|----------------------------|
| Jul-84 | 41.7 | 30 | 5 | TOTAL STD 17.216293 | | 1 |
| Oct-84 | 42 | 30 | 5 | TOTAL Sx 1.9619787 | | 2 |
| Jan-85 | 69.5 | 30 | 5 | TOTAL MEAN 11.720641 | | 3 |
| Apr-85 | 89.1 | 30 | 5 | TOTAL N 78 | 60.58 | 4 |
| Jul-85 | 93.2 | 30 | 5 | TOTAL df 77 | 73.45 | 5 |
| Oct-85 | 38.5 | 30 | 5 | | 72.58 | 6 |
| Jan-86 | 24.8 | 30 | 5 | | 61.40 | 7 |
| Apr-86 | 5.3 | 30 | 5 | | 40.45 | 8 |
| Jul-86 | 5 | 30 | 5 | | 18.40 | 9 |
| Oct-86 | 4 | 30 | 5 | | 9.78 | 10 |
| Jan-87 | 10 | 30 | 5 | | 6.08 | 11 |
| Apr-87 | 12.5 | 30 | 5 | | 7.88 | 12 |
| Jul-87 | 1 | 30 | 5 | | 6.88 | 13 |
| Oct-87 | 1 | 30 | 5 | | 6.13 | 14 |
| Jan-88 | 3 | 30 | 5 | | 4.38 | 15 |
| Apr-88 | 2.6 | 30 | 5 | | 1.90 | 16 |
| Jul-88 | 18 | 30 | 5 | | 6.15 | 17 |
| Oct-88 | 19 | 30 | 5 | | 10.65 | 18 |
| Jan-89 | 15 | 30 | 5 | | 13.65 | 19 |
| Apr-89 | 17 | 30 | 5 | | 17.25 | 20 |
| Jul-89 | 2 | 30 | 5 | | 13.25 | 21 |
| Oct-89 | 5.4 | 30 | 5 | | 9.85 | 22 |
| Jan-90 | 2 | 30 | 5 | | 6.60 | 23 |
| Apr-90 | 7 | 30 | 5 | | 4.10 | 24 |
| Jul-90 | 14 | 30 | 5 | | 7.10 | 25 |
| Oct-90 | 6 | 30 | 5 | | 7.25 | 26 |
| Jan-91 | 50 | 30 | 5 | | 19.25 | 27 |
| Apr-91 | 5.8 | 30 | 5 | | 18.95 | 28 |
| Jul-91 | 8.8 | 30 | 5 | | 17.65 | 29 |
| Oct-91 | 9.8 | 30 | 5 | | 18.60 | 30 |
| Jan-92 | 8.6 | 30 | 5 | | 8.25 | 31 |
| Apr-92 | 14 | 30 | 5 | | 10.30 | 32 |
| Jul-92 | 8.8 | 30 | 5 | | 10.30 | 33 |
| Oct-92 | 2.5 | 30 | 5 | | 8.48 | 34 |
| Jan-93 | 13.2 | 30 | 5 | | 9.63 | 35 |
| Apr-93 | 8.31 | 30 | 5 | | 8.20 | 36 |
| Jul-93 | 2.8 | 30 | 5 | | 6.70 | 37 |
| Oct-93 | 5.9 | 30 | 5 | | 7.55 | 38 |
| Jan-94 | 1.5 | 30 | 5 | | 4.63 | 39 |
| Apr-94 | 1.5 | 30 | 5 | | 2.93 | 40 |
| Jul-94 | 5 | 30 | 5 | | 3.48 | 41 |
| Oct-94 | 4.2 | 30 | 5 | | 3.05 | 42 |
| Jan-95 | 1.5 | 30 | 5 | | 3.05 | 43 |
| Apr-95 | 7.4 | 30 | 5 | | 4.53 | 44 |
| Jul-95 | 8.7 | 30 | 5 | | 5.45 | 45 |
| Oct-95 | 2.5 | 30 | 2.5 | | 5.03 | 46 |
| Apr-96 | 10 | 30 | 10 | | 7.80 | 47 |
| Sep-96 | 10 | 30 | 10 | | 10 | 10 09/17/96 semiannual 48 |
| Apr-97 | 10 | 30 | 10 | | 10 | 10 04/03/97 semiannual 49 |
| Aug-97 | 10 | 30 | 10 | | 10 | 10 08/27/97 semiannual 50 |
| Mar-98 | 5 | 30 | 5 | | 7.5 | 7.5 03/24/98 semiannual 51 |
| Sep-98 | 10 | 30 | 5 | | 7.5 | 7.5 09/22/98 semiannual 52 |
| May-99 | 10 | 30 | 10 | | 10 | 10 05/11/99 semiannual 53 |
| Oct-99 | 10 | 30 | 10 | | 10 | 10 10/05/99 semiannual 54 |
| May-00 | 10 | 30 | 10 | | 10 | 10 05/16/00 semiannual 55 |
| Nov-00 | 2 | 30 | 5 | | 6 | 6 11/28/00 semiannual 56 |
| Apr-01 | 5 | 30 | 5 | | 3.5 | 3.5 04/04/01 semiannual 57 |
| Oct-01 | 5 | 30 | 5 | | 5 | 5 10/18/01 semiannual 58 |
| Apr-02 | 1 | 30 | 5 | | 3 | 3 04/18/02 semiannual 59 |
| Oct-02 | 5 | 30 | 5 | | 3 | 3 10/03/02 semiannual 60 |
| Apr-03 | 5 | 30 | 5 | | 5 | 5 04/25/03 semiannual 61 |
| Oct-03 | 5 | 30 | 5 | | 5 | 5 10/03/03 semiannual 62 |
| Apr-04 | 5 | 30 | 5 | | 5 | 5 04/01/04 semiannual 63 |
| Oct-04 | 5 | 30 | 5 | | 5 | 5 10/19/04 semiannual 64 |
| Apr-05 | 5 | 30 | 5 | | 5 | 5 04/22/05 semiannual 65 |
| Oct-05 | 5 | 30 | 5 | | 5 | 5 10/07/05 semiannual 66 |
| May-06 | 5.8 | 30 | 5 | | 5.4 | 5.4 05/11/06 semiannual 67 |
| Oct-06 | 5.8 | 30 | 5 | | 5.8 | 5.8 10/18/06 semiannual 68 |
| May-07 | 5.8 | 30 | 5 | | 5.8 | 5.8 05/22/07 semiannual 69 |
| Oct-07 | 5.8 | 30 | 5 | | 5.8 | 5.8 10/25/07 semiannual 70 |
| May-08 | 5.8 | 30 | 5 | | 5.8 | 5.8 05/13/08 semiannual 71 |
| Oct-08 | 5.8 | 30 | 5 | | 5.8 | 5.8 10/23/08 semiannual 72 |
| May-09 | 5 | 30 | 5 | | 5.4 | 5.4 05/09/09 semiannual 73 |
| Oct-09 | 5 | 30 | 5 | | 5 | 5 10/29/09 semiannual 74 |
| May-10 | 5 | 30 | 5 | | 5 | 5 05/20/10 semiannual 75 |
| Oct-10 | 5 | 30 | 5 | | 5 | 5 10/18/10 semiannual 76 |
| Jun-11 | 2 | 30 | 2 | | 3.5 | 3.5 06/02/11 semiannual 77 |
| Oct-11 | 5 | 30 | 5 | | 3.5 | 3.5 10/12/11 semiannual 78 |

**MOVING AVERAGE TREND TEST
VDM-11
METHYLENE CHLORIDE**



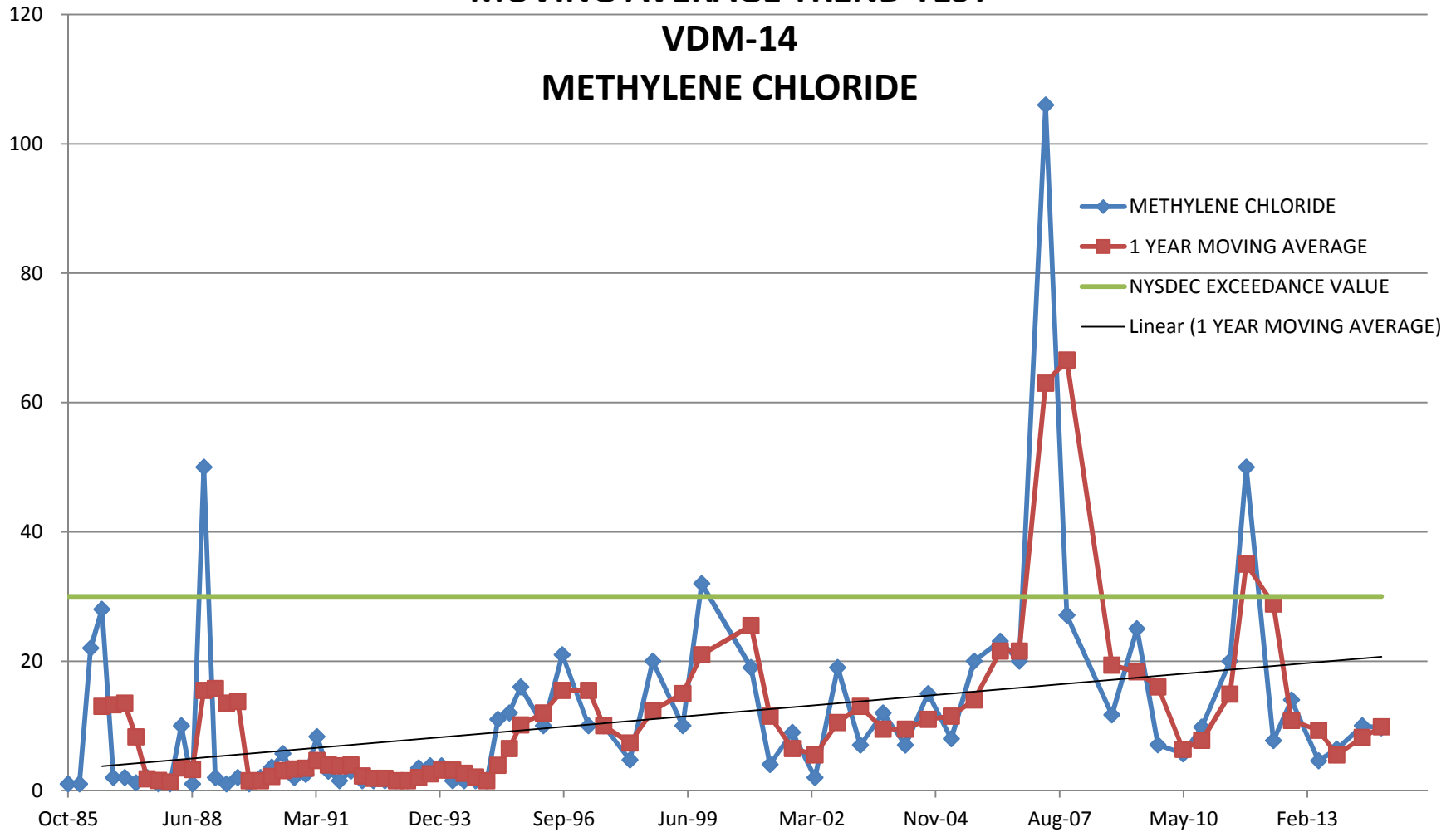
METHYLENE CHLORIDE

| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|--------------------------|-------------|------------------------|-----------------|-------------------|---------------|------------------------------|
| - | - | - | - | - | - | - |
| Jan-87 | | 30 | 5 | TOTAL STD 20.7399 | | 1 |
| Apr-87 | | 30 | 5 | TOTAL Sx 2.5529 | | 2 |
| Jul-87 | 168 | 30 | 5 | TOTAL MEAN 8.0864 | | 3 |
| Oct-87 | 5 | 30 | 5 | TOTAL N 67 | | 4 |
| Jan-88 | 5 | 30 | 5 | TOTAL df 66 | | 5 |
| Apr-88 | 7.8 | 30 | 5 | | 46.45 | 6 |
| Jul-88 | 18.3 | 30 | 5 | | 9.03 | 7 |
| Oct-88 | 1 | 30 | 5 | | 8.03 | 8 |
| Jan-89 | 1.7 | 30 | 5 | | 7.20 | 9 |
| Apr-89 | 5.1 | 30 | 5 | | 6.53 | 10 |
| Jul-89 | 2 | 30 | 5 | | 2.45 | 11 |
| Oct-89 | 4.8 | 30 | 5 | | 3.40 | 12 |
| Jan-90 | 1 | 30 | 5 | | 3.23 | 13 |
| Apr-90 | 6 | 30 | 5 | | 3.45 | 14 |
| Jul-90 | 1 | 30 | 5 | | 3.20 | 15 |
| Oct-90 | 50 | 30 | 5 | | 14.50 | 16 |
| Jan-91 | 2 | 30 | 5 | | 14.75 | 17 |
| Apr-91 | 2 | 30 | 5 | | 13.75 | 18 |
| Jul-91 | 2 | 30 | 5 | | 14.00 | 19 |
| Oct-91 | 2.5 | 30 | 5 | | 2.13 | 20 |
| Jan-92 | 3.4 | 30 | 5 | | 2.48 | 21 |
| Apr-92 | 2 | 30 | 5 | | 2.48 | 22 |
| Jul-92 | 2.5 | 30 | 5 | | 2.60 | 23 |
| Oct-92 | 7.16 | 30 | 5 | | 3.77 | 24 |
| Jan-93 | 3 | 30 | 5 | | 3.67 | 25 |
| Apr-93 | 1.5 | 30 | 5 | | 3.54 | 26 |
| Jul-93 | 4.43 | 30 | 5 | | 4.02 | 27 |
| Oct-93 | 1.5 | 30 | 5 | | 2.61 | 28 |
| Jan-94 | 1.5 | 30 | 5 | | 2.23 | 29 |
| Apr-94 | 1.5 | 30 | 5 | | 2.23 | 30 |
| Jul-94 | 21 | 30 | 5 | | 6.38 | 31 |
| Oct-94 | 2.2 | 30 | 5 | | 6.55 | 32 |
| Jan-95 | 1.5 | 30 | 5 | | 6.55 | 33 |
| Apr-95 | 1.5 | 30 | 5 | | 6.55 | 34 |
| Jul-95 | 3 | 30 | 5 | | 2.05 | 35 |
| Oct-95 | 2.5 | 30 | 2.5 | | 2.13 | 36 |
| Apr-96 | 10 | 30 | 10 | | 6.375 | 37 |
| Sep-96 | 10 | 30 | 10 | | 10 | 10 9/17/1996 semiannual 38 |
| Apr-97 | 10 | 30 | 10 | | 10 | 10 4/3/1997 semiannual 39 |
| Aug-97 | 10 | 30 | 10 | | 10 | 10 8/27/1997 semiannual 40 |
| Mar-98 | 5 | 30 | 5 | | 7.5 | 7.5 3/24/1998 semiannual 41 |
| Sep-98 | 2.6 | 30 | 5 | | 3.8 | 3.8 9/22/1998 semiannual 42 |
| May-99 | 10 | 30 | 10 | | 6.3 | 6.3 5/11/1999 semiannual 43 |
| Oct-99 | 10 | 30 | 10 | | 10 | 10 10/5/1999 semiannual 44 |
| May-00 | 10 | 30 | 10 | | 10 | 10 5/16/2000 semiannual 45 |
| Nov-00 | 5 | 30 | 5 | | 7.5 | 7.5 11/28/2000 semiannual 46 |
| Apr-01 | 5 | 30 | 5 | | 5 | 5 4/4/2001 semiannual 47 |
| Oct-01 | 5 | 30 | 5 | | 5 | 5 10/18/2001 semiannual 48 |
| Apr-02 | 5 | 30 | 5 | | 5 | 5 4/18/2002 semiannual 49 |
| Oct-02 | 5 | 30 | 5 | | 5 | 5 10/3/2002 semiannual 50 |
| Apr-03 | 5 | 30 | 5 | | 5 | 5 4/25/2003 semiannual 51 |
| Oct-03 | 5 | 30 | 5 | | 5 | 5 10/3/2003 semiannual 52 |
| Apr-04 | 5 | 30 | 5 | | 5 | 5 4/1/2004 semiannual 53 |
| Oct-04 | 5 | 30 | 5 | | 5 | 5 10/19/2004 semiannual 54 |
| Apr-05 | 5 | 30 | 5 | | 5 | 5 4/22/2005 semiannual 55 |
| Oct-05 | 5 | 30 | 5 | | 5 | 5 10/7/2005 semiannual 56 |
| May-06 | 5.8 | 30 | 5 | | 5.4 | 5.4 5/11/2006 semiannual 57 |
| Oct-06 | 5.8 | 30 | 5 | | 5.8 | 5.8 10/18/2006 semiannual 58 |
| May-07 | 5.8 | 30 | 5 | | 5.8 | 5.8 5/22/2007 semiannual 59 |
| Oct-07 | 5.8 | 30 | 5 | | 5.8 | 5.8 10/25/2007 semiannual 60 |
| May-08 | 5.8 | 30 | 5 | | 5.8 | 5.8 5/13/2008 semiannual 61 |
| Oct-08 | 5.8 | 30 | 5 | | 5.8 | 5.8 10/23/2008 semiannual 62 |
| May-09 | 5 | 30 | 5 | | 5.4 | 5.4 5/12/2009 semiannual 63 |
| Oct-09 | 5 | 30 | 5 | | 5 | 5 10/29/2009 semiannual 64 |
| May-10 | 5 | 30 | 5 | | 5 | 5 5/20/2010 semiannual 65 |
| Oct-10 | 5 | 30 | 5 | | 5 | 5 10/18/2010 semiannual 66 |
| Jun-11 | 2 | 30 | 2 | | 3.5 | 3.5 6/2/2011 semiannual 67 |
| Oct-11 | 5 | 30 | 5 | | 3.5 | 3.5 10/12/2011 semiannual 68 |
| May-12 | 2 | 30 | 2 | | 3.5 | 3.5 5/18/2012 semiannual 69 |
| Oct-12 | 2 | 30 | 2 | | 2 | 2 10/11/2012 semiannual 70 |
| May-13 | 2 | 30 | 2 | | 2 | 2 5/17/2013 semiannual 71 |
| Oct-13 | 2 | 30 | 2 | | 2 | 2 10/11/2013 semiannual 72 |
| May-14 | 10 | 30 | 2 | | 6 | 6 5/5/2014 semiannual 73 |
| Oct-14 | 2 | 30 | 2 | | 6 | 6 10/6/2014 semiannual 74 |

MOVING AVERAGE TREND TEST

VDM-14





METHYLENE CHLORIDE

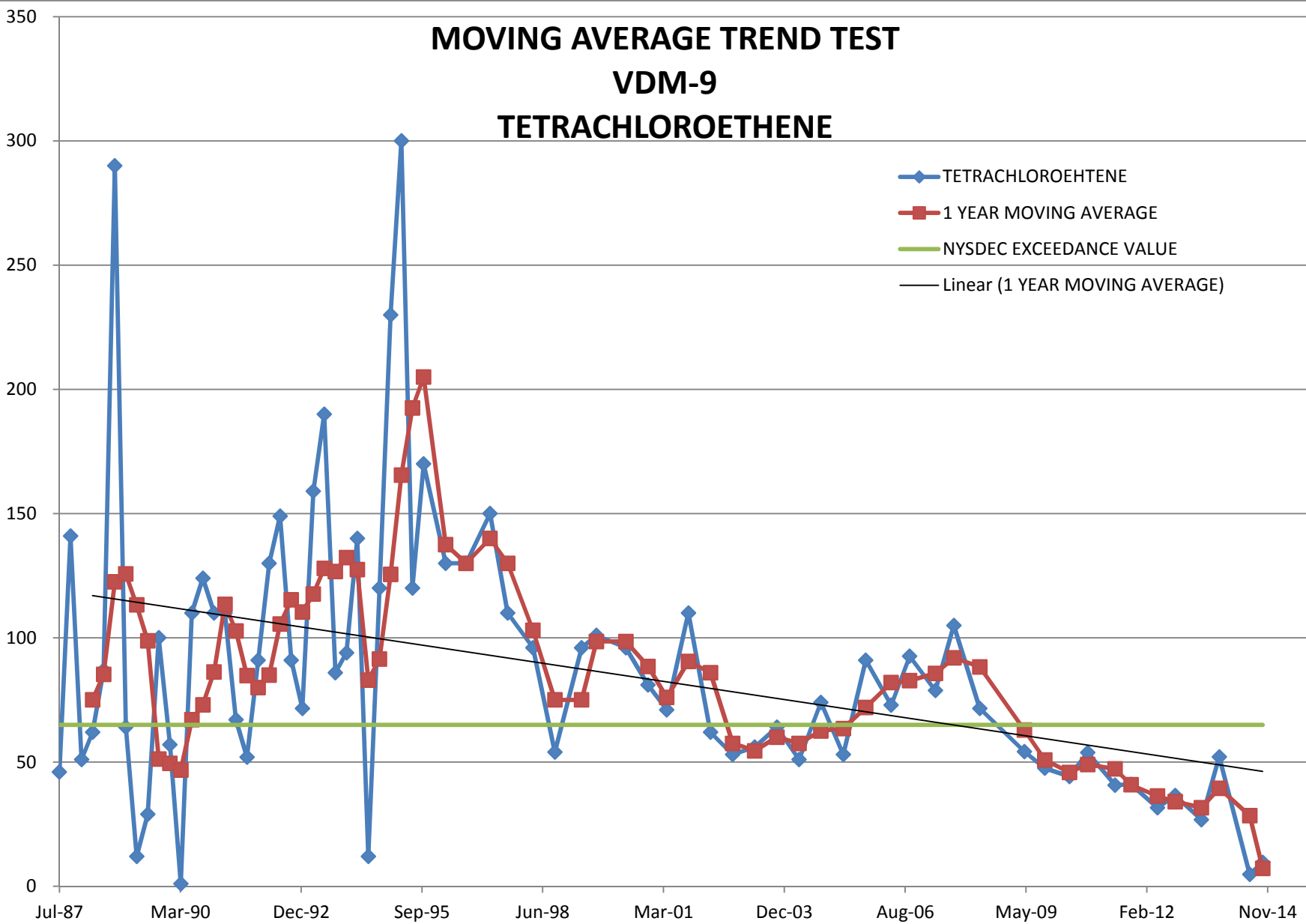


WELL VDM - 14 : METHYLENE CHLORIDE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|----------------|----------|------------------|--------------|--------------------|------------|-----------|
| Oct-85 | 1 | 30 | 5 | TOTAL STI 15.41251 | | 1 |
| Jan-86 | 1 | 30 | 5 | TOTAL Sx 1.829129 | | 2 |
| Apr-86 | 22 | 30 | 5 | TOTAL MEA 10.78167 | | 3 |
| Jul-86 | 28 | 30 | 5 | TOTAL N 72 | 13.00 | 4 |
| Oct-86 | 2 | 30 | 5 | TOTAL df 71 | 13.25 | 5 |
| Jan-87 | 2 | 30 | 5 | | 13.50 | 6 |
| Apr-87 | 1.2 | 30 | 5 | | 8.30 | 7 |
| Jul-87 | 2 | 30 | 5 | | 1.80 | 8 |
| Oct-87 | 1 | 30 | 5 | | 1.55 | 9 |
| Jan-88 | 1 | 30 | 5 | | 1.30 | 10 |
| Apr-88 | 10 | 30 | 5 | | 3.50 | 11 |
| Jul-88 | 1 | 30 | 5 | | 3.25 | 12 |
| Oct-88 | 50 | 30 | 5 | | 15.50 | 13 |
| Jan-89 | 2 | 30 | 5 | | 15.75 | 14 |
| Apr-89 | 1 | 30 | 5 | | 13.50 | 15 |
| Jul-89 | 2 | 30 | 5 | | 13.75 | 16 |
| Oct-89 | 1 | 30 | 5 | | 1.50 | 17 |
| Jan-90 | 2 | 30 | 5 | | 1.50 | 18 |
| Apr-90 | 3.6 | 30 | 5 | | 2.15 | 19 |
| Jul-90 | 5.7 | 30 | 5 | | 3.08 | 20 |
| Oct-90 | 2 | 30 | 5 | | 3.33 | 21 |
| Jan-91 | 2.5 | 30 | 5 | | 3.45 | 22 |
| Apr-91 | 8.32 | 30 | 5 | | 4.63 | 23 |
| Jul-91 | 3 | 30 | 5 | | 3.96 | 24 |
| Oct-91 | 1.5 | 30 | 5 | | 3.83 | 25 |
| Jan-92 | 3 | 30 | 5 | | 3.96 | 26 |
| Apr-92 | 1.5 | 30 | 5 | | 2.25 | 27 |
| Jul-92 | 1.5 | 30 | 5 | | 1.88 | 28 |
| Oct-92 | 1.5 | 30 | 5 | | 1.88 | 29 |
| Jan-93 | 1.5 | 30 | 5 | | 1.50 | 30 |
| Apr-93 | 1.5 | 30 | 5 | | 1.50 | 31 |
| Jul-93 | 3.5 | 30 | 5 | | 2.00 | 32 |
| Oct-93 | 3.8 | 30 | 5 | | 2.58 | 33 |
| Jan-94 | 3.8 | 30 | 5 | | 3.15 | 34 |
| Apr-94 | 1.5 | 30 | 5 | | 3.15 | 35 |
| Jul-94 | 1.5 | 30 | 5 | | 2.65 | 36 |
| Oct-94 | 1.5 | 30 | 5 | | 2.08 | 37 |
| Jan-95 | 1.5 | 30 | 5 | | 1.50 | 38 |
| Apr-95 | 11 | 30 | 5 | | 3.88 | 39 |
| Jul-95 | 12 | 30 | 5 | | 6.50 | 40 |
| Oct-95 | 16 | 30 | 5 | | 10.13 | 41 |
| Apr-96 | 10 | 30 | 10 | | 12 | 42 |
| Sep-96 | 21 | 30 | 10 | | 15.5 | 43 |
| Apr-97 | 10 | 30 | 10 | | 15.5 | 44 |
| Aug-97 | 10 | 30 | 100 | | 10 | 45 |
| Mar-98 | 4.7 | 30 | 5 | | 7.35 | 46 |
| Sep-98 | 20 | 30 | 5 | | 12.35 | 47 |
| May-99 | 10 | 30 | 10 | | 15 | 48 |
| Oct-99 | 32 | 30 | 10 | | 21 | 49 |
| Nov-00 | 19 | 30 | 5 | | 25.5 | 50 |
| Apr-01 | 4 | 30 | 5 | | 11.5 | 51 |
| Oct-01 | 9 | 30 | 5 | | 6.5 | 52 |
| Apr-02 | 2 | 30 | 5 | | 5.5 | 53 |
| Oct-02 | 19 | 30 | 25 | | 10.5 | 54 |
| Apr-03 | 7 | 30 | 10 | | 13 | 55 |
| Oct-03 | 12 | 30 | 5 | | 9.5 | 56 |
| Apr-04 | 7 | 30 | 10 | | 9.5 | 57 |
| Oct-04 | 15 | 30 | 10 | | 11 | 58 |
| Apr-05 | 8 | 30 | 10 | | 11.5 | 59 |
| Oct-05 | 20 | 30 | 10 | | 14 | 60 |
| May-06 | 23.1 | 30 | 10 | | 21.55 | 61 |
| Oct-06 | 20 | 30 | 10 | | 21.55 | 62 |
| May-07 | 106 | 30 | 10 | | 63 | 63 |
| Oct-07 | 27.1 | 30 | 10 | | 66.55 | 64 |
| Oct-08 | 11.7 | 30 | 10 | | 19.4 | 65 |
| May-09 | 25 | 30 | 25 | | 18.35 | 66 |
| Oct-09 | 7.05 | 30 | 25 | | 16.025 | 67 |
| May-10 | 5.68 | 30 | 25 | | 6.365 | 68 |
| Oct-10 | 9.83 | 30 | 25 | | 7.755 | 69 |
| Jun-11 | 20 | 30 | 20 | | 14.915 | 70 |
| Oct-11 | 50 | 30 | 50 | | 35 | 71 |
| May-12 | 7.7 | 30 | 2 | | 28.85 | 72 |
| Oct-12 | 14 | 30 | 2 | | 10.85 | 73 |
| May-13 | 4.6 | 30 | 2 | | 9.3 | 74 |
| Oct-13 | 6.4 | 30 | 2 | | 5.5 | 75 |
| May-14 | 10 | 30 | 10 | | 8.2 | 76 |
| Oct-14 | 9.7 | 30 | 2 | | 9.85 | 77 |

MOVING AVERAGE TREND TEST
VDM-9
TETRACHLOROETHENE

-  TETRACHLOROETHENE
-  1 YEAR MOVING AVERAGE
-  NYSDEC EXCEEDANCE VALUE
-  Linear (1 YEAR MOVING AVERAGE)



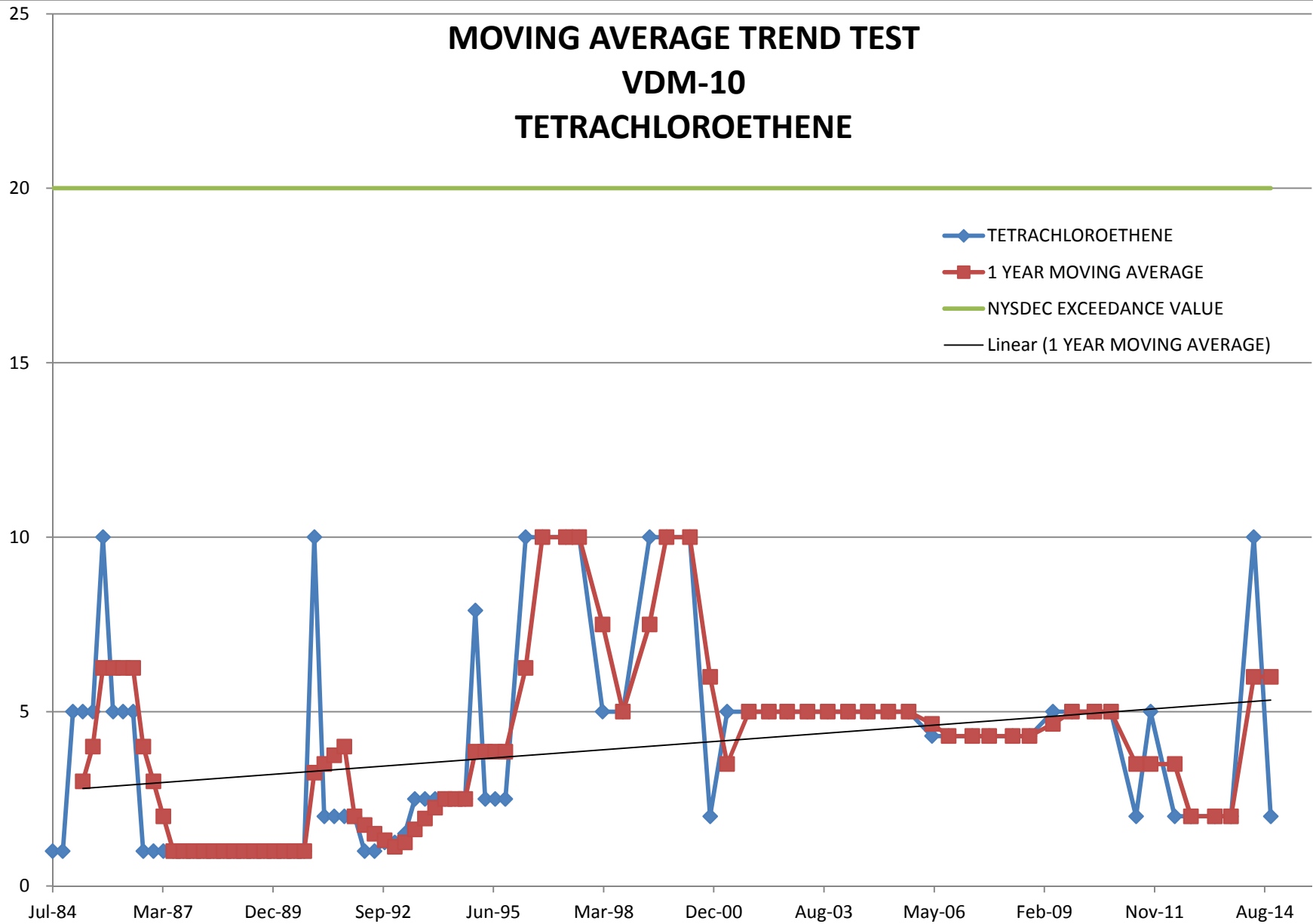
WELL VDM - 9 : TETRACHLOROETHENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|---------------------|---------------|------------------------------|
| Jan-87 | | 65 | 5 | TOTAL STD 55.40602 | | 1 |
| Apr-87 | | 65 | 5 | TOTAL Sx 6.925752 | | 2 |
| Jul-87 | 46 | 65 | 5 | TOTAL MEAN 93.81385 | | 3 |
| Oct-87 | 141 | 65 | 5 | TOTAL N 65 | | 4 |
| Jan-88 | 51 | 65 | 5 | TOTAL df 64 | | 5 |
| Apr-88 | 62 | 65 | 5 | | 75.00 | 6 |
| Jul-88 | 87 | 65 | 5 | | 85.25 | 7 |
| Oct-88 | 290 | 65 | 5 | | 122.50 | 8 |
| Jan-89 | 64 | 65 | 5 | | 125.75 | 9 |
| Apr-89 | 12 | 65 | 5 | | 113.25 | 10 |
| Jul-89 | 29 | 65 | 5 | | 98.75 | 11 |
| Oct-89 | 100 | 65 | 5 | | 51.25 | 12 |
| Jan-90 | 57 | 65 | 5 | | 49.50 | 13 |
| Apr-90 | 1 | 65 | 5 | | 46.75 | 14 |
| Jul-90 | 110 | 65 | 5 | | 67.00 | 15 |
| Oct-90 | 124 | 65 | 5 | | 73.00 | 16 |
| Jan-91 | 110 | 65 | 5 | | 86.25 | 17 |
| Apr-91 | 110 | 65 | 5 | | 113.50 | 18 |
| Jul-91 | 67 | 65 | 5 | | 102.75 | 19 |
| Oct-91 | 52 | 65 | 5 | | 84.75 | 20 |
| Jan-92 | 91 | 65 | 5 | | 80.00 | 21 |
| Apr-92 | 130 | 65 | 5 | | 85.00 | 22 |
| Jul-92 | 149 | 65 | 5 | | 105.50 | 23 |
| Oct-92 | 91 | 65 | 5 | | 115.25 | 24 |
| Jan-93 | 71.6 | 65 | 5 | | 110.40 | 25 |
| Apr-93 | 159 | 65 | 5 | | 117.65 | 26 |
| Jul-93 | 190 | 65 | 5 | | 127.90 | 27 |
| Oct-93 | 86 | 65 | 5 | | 126.65 | 28 |
| Jan-94 | 94 | 65 | 5 | | 132.25 | 29 |
| Apr-94 | 140 | 65 | 5 | | 127.50 | 30 |
| Jul-94 | 12 | 65 | 5 | | 83.00 | 31 |
| Oct-94 | 120 | 65 | 5 | | 91.50 | 32 |
| Jan-95 | 230 | 65 | 5 | | 125.50 | 33 |
| Apr-95 | 300 | 65 | 5 | | 165.50 | 34 |
| Jul-95 | 120 | 65 | 5 | | 192.50 | 35 |
| Oct-95 | 170 | 65 | 5 | | 205.00 | 36 |
| Apr-96 | 130 | 65 | 5 | | 137.5 | 137.5 04/01/96 semiannual 37 |
| Sep-96 | 130 | 65 | 10 | | 130 | 130 09/17/96 semiannual 38 |
| Apr-97 | 150 | 65 | 10 | | 140 | 140 04/03/97 semiannual 39 |
| Aug-97 | 110 | 65 | 10 | | 130 | 130 08/27/97 semiannual 40 |
| Mar-98 | 96 | 65 | 5 | | 103 | 103 03/24/98 semiannual 41 |
| Sep-98 | 54 | 65 | 5 | | 75 | 75 09/22/98 semiannual 42 |
| May-99 | 96 | 65 | 10 | | 75 | 75 05/11/99 semiannual 43 |
| Sep-99 | 101 | 65 | 10 | | 98.5 | 98.5 09/29/99 semiannual 44 |
| May-00 | 96 | 65 | 10 | | 98.5 | 98.5 05/16/00 semiannual 45 |
| Nov-00 | 81 | 65 | 5 | | 88.5 | 88.5 11/28/00 semiannual 46 |
| Apr-01 | 71 | 65 | 5 | | 76 | 76 04/04/01 semiannual 47 |
| Oct-01 | 110 | 65 | 5 | | 90.5 | 90.5 10/18/01 semiannual 48 |
| Apr-02 | 62 | 65 | 5 | | 86 | 86 04/18/02 semiannual 49 |
| Oct-02 | 53 | 65 | 5 | | 57.5 | 57.5 10/03/02 semiannual 50 |
| Apr-03 | 56 | 65 | 5 | | 54.5 | 54.5 04/25/03 semiannual 51 |
| Oct-03 | 64 | 65 | 5 | | 60 | 60 10/03/03 semiannual 52 |
| Apr-04 | 51 | 65 | 5 | | 57.5 | 57.5 04/01/04 semiannual 53 |
| Oct-04 | 74 | 65 | 5 | | 62.5 | 62.5 10/19/04 semiannual 54 |
| Apr-05 | 53 | 65 | 5 | | 63.5 | 63.5 04/22/05 semiannual 55 |
| Oct-05 | 91 | 65 | 5 | | 72 | 72 10/07/05 semiannual 56 |
| May-06 | 72.9 | 65 | 5 | | 81.95 | 81.95 05/11/06 semiannual 57 |
| Oct-06 | 92.6 | 65 | 5 | | 82.75 | 82.75 10/18/06 semiannual 58 |
| May-07 | 78.8 | 65 | 5 | | 85.7 | 85.7 05/22/07 semiannual 59 |
| Oct-07 | 105 | 65 | 5 | | 91.9 | 91.9 10/25/07 semiannual 60 |
| May-08 | 71.6 | 65 | 5 | | 88.3 | 88.3 05/13/08 semiannual 61 |
| May-09 | 54.2 | 65 | 5 | | 62.9 | 62.9 05/12/09 semiannual 63 |
| Oct-09 | 47.5 | 65 | 5 | | 50.85 | 50.85 10/29/09 semiannual 64 |
| May-10 | 44.2 | 65 | 5 | | 45.85 | 45.85 05/20/10 semiannual 65 |
| Oct-10 | 53.8 | 65 | 5 | | 49 | 49 10/18/10 semiannual 66 |
| Jun-11 | 40.7 | 65 | 5 | | 47.25 | 47.25 06/02/11 semiannual 67 |
| Oct-11 | 41 | 65 | 5 | | 40.85 | 40.85 10/12/11 semiannual 68 |
| May-12 | 31.6 | 65 | 2 | | 36.3 | 36.3 05/18/12 semiannual 69 |
| Oct-12 | 36.5 | 65 | 2 | | 34.05 | 34.05 10/11/12 semiannual 70 |
| May-13 | 26.8 | 65 | 2 | | 31.65 | 31.65 05/17/13 semiannual 71 |
| Oct-13 | 52.1 | 65 | 2 | | 39.45 | 39.45 10/11/13 semiannual 72 |
| Jun-14 | 4.8 | 65 | 2 | | 28.45 | 28.45 06/20/14 semiannual 73 |
| Oct-14 | 9.6 | 65 | 2 | | 7.2 | 7.2 10/06/14 semiannual 74 |

MOVING AVERAGE TREND TEST

VDM-10

TETRACHLOROETHENE



WELL VDM - 10 : TETRACHLOROETHENE

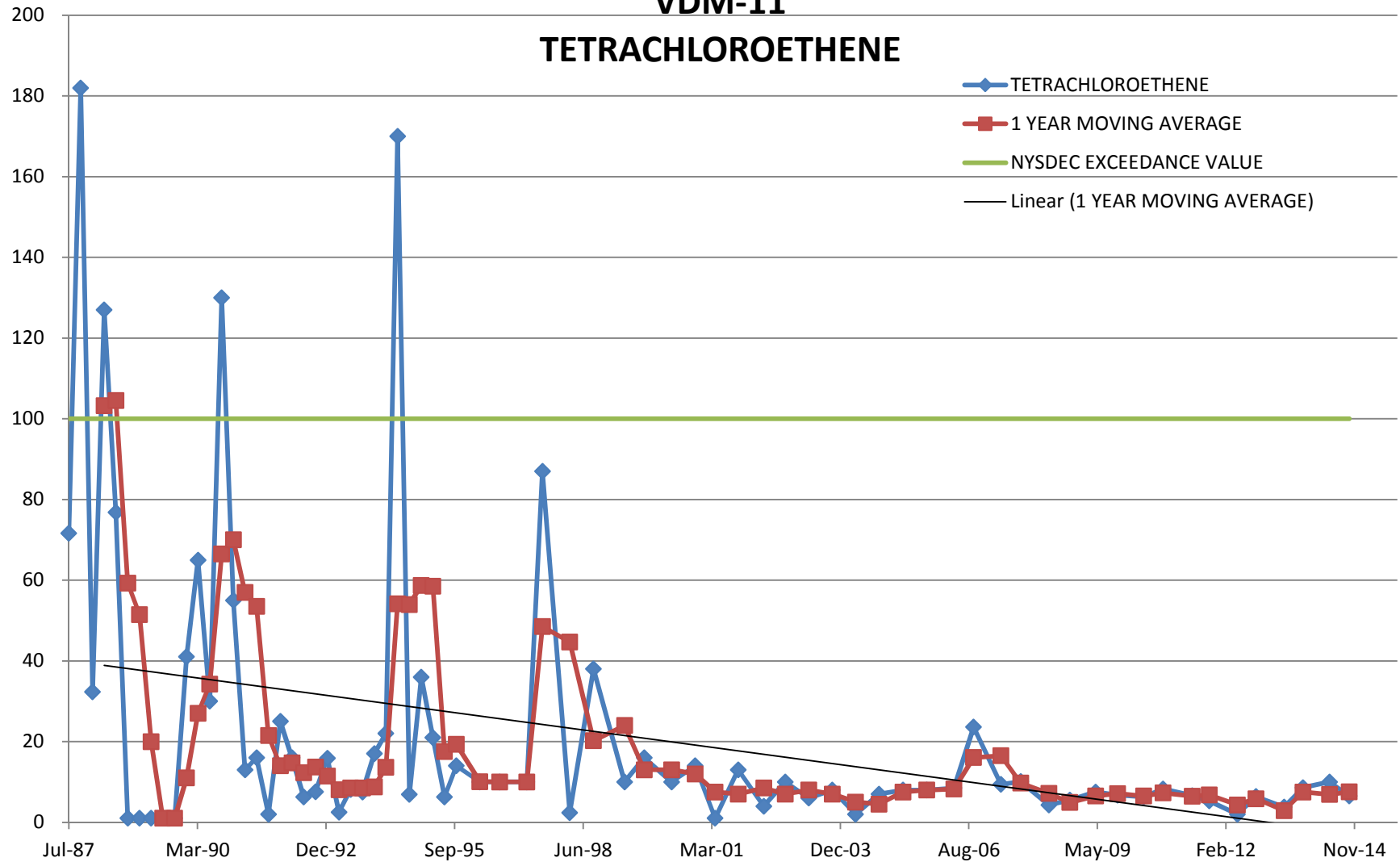
WELL VDM - 10 : TETRACHLOROETHENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVERAGE | SAMPLING EVENT NO. |
|-------------------|-------------|------------------------|----------------|---------------------|-------------------|-----------------------------|
| - | - | - | - | - | - | - |
| Jul-84 | 1 | 20 | 5 | TOTAL STD 2.8078038 | | 1 |
| Oct-84 | 1 | 20 | 5 | TOTAL Sx 0.3199789 | | 2 |
| Jan-85 | 5 | 20 | 5 | TOTAL ME/ 3.8230769 | | 3 |
| Apr-85 | 5 | 20 | 5 | TOTAL N 78 | 3.00 | 4 |
| Jul-85 | 5 | 20 | 5 | TOTAL df 77 | 4.00 | 5 |
| Oct-85 | 10 | 20 | 5 | | 6.25 | 6 |
| Jan-86 | 5 | 20 | 5 | | 6.25 | 7 |
| Apr-86 | 5 | 20 | 5 | | 6.25 | 8 |
| Jul-86 | 5 | 20 | 5 | | 6.25 | 9 |
| Oct-86 | 1 | 20 | 5 | | 4.00 | 10 |
| Jan-87 | 1 | 20 | 5 | | 3.00 | 11 |
| Apr-87 | 1 | 20 | 5 | | 2.00 | 12 |
| Jul-87 | 1 | 20 | 5 | | 1.00 | 13 |
| Oct-87 | 1 | 20 | 5 | | 1.00 | 14 |
| Jan-88 | 1 | 20 | 5 | | 1.00 | 15 |
| Apr-88 | 1 | 20 | 5 | | 1.00 | 16 |
| Jul-88 | 1 | 20 | 5 | | 1.00 | 17 |
| Oct-88 | 1 | 20 | 5 | | 1.00 | 18 |
| Jan-89 | 1 | 20 | 5 | | 1.00 | 19 |
| Apr-89 | 1 | 20 | 5 | | 1.00 | 20 |
| Jul-89 | 1 | 20 | 5 | | 1.00 | 21 |
| Oct-89 | 1 | 20 | 5 | | 1.00 | 22 |
| Jan-90 | 1 | 20 | 5 | | 1.00 | 23 |
| Apr-90 | 1 | 20 | 5 | | 1.00 | 24 |
| Jul-90 | 1 | 20 | 5 | | 1.00 | 25 |
| Oct-90 | 1 | 20 | 5 | | 1.00 | 26 |
| Jan-91 | 10 | 20 | 5 | | 3.25 | 27 |
| Apr-91 | 2 | 20 | 5 | | 3.50 | 28 |
| Jul-91 | 2 | 20 | 5 | | 3.75 | 29 |
| Oct-91 | 2 | 20 | 5 | | 4.00 | 30 |
| Jan-92 | 2 | 20 | 5 | | 2.00 | 31 |
| Apr-92 | 1 | 20 | 5 | | 1.75 | 32 |
| Jul-92 | 1 | 20 | 5 | | 1.50 | 33 |
| Oct-92 | 1.25 | 20 | 5 | | 1.31 | 34 |
| Jan-93 | 1.25 | 20 | 5 | | 1.13 | 35 |
| Apr-93 | 1.5 | 20 | 5 | | 1.25 | 36 |
| Jul-93 | 2.5 | 20 | 5 | | 1.63 | 37 |
| Oct-93 | 2.5 | 20 | 5 | | 1.94 | 38 |
| Jan-94 | 2.5 | 20 | 5 | | 2.25 | 39 |
| Apr-94 | 2.5 | 20 | 5 | | 2.50 | 40 |
| Jul-94 | 2.5 | 20 | 5 | | 2.50 | 41 |
| Oct-94 | 2.5 | 20 | 5 | | 2.50 | 42 |
| Jan-95 | 7.9 | 20 | 5 | | 3.85 | 43 |
| Apr-95 | 2.5 | 20 | 5 | | 3.85 | 44 |
| Jul-95 | 2.5 | 20 | 5 | | 3.85 | 45 |
| Oct-95 | 2.5 | 20 | 2.5 | | 3.85 | 46 |
| Apr-96 | 10 | 20 | 10 | | 6.25 | 47 |
| Sep-96 | 10 | 20 | 10 | | 10 | 10 09/17/96 semiannual 48 |
| Apr-97 | 10 | 20 | 10 | | 10 | 10 04/03/97 semiannual 49 |
| Aug-97 | 10 | 20 | 10 | | 10 | 10 08/27/97 semiannual 50 |
| Mar-98 | 5 | 20 | 5 | | 7.5 | 7.5 03/24/98 semiannual 51 |
| Sep-98 | 5 | 20 | 5 | | 5 | 5 09/22/98 semiannual 52 |
| May-99 | 10 | 20 | 10 | | 7.5 | 7.5 05/11/99 semiannual 53 |
| Oct-99 | 10 | 20 | 10 | | 10 | 10 10/05/99 semiannual 54 |
| May-00 | 10 | 20 | 10 | | 10 | 10 05/16/00 semiannual 55 |
| Nov-00 | 2 | 20 | 5 | | 6 | 6 11/28/00 semiannual 56 |
| Apr-01 | 5 | 20 | 5 | | 3.5 | 3.5 04/04/01 semiannual 57 |
| Oct-01 | 5 | 20 | 5 | | 5 | 5 10/18/01 semiannual 58 |
| Apr-02 | 5 | 20 | 5 | | 5 | 5 04/18/02 semiannual 59 |
| Oct-02 | 5 | 20 | 5 | | 5 | 5 10/03/02 semiannual 60 |
| Apr-03 | 5 | 20 | 5 | | 5 | 5 04/25/03 semiannual 61 |
| Oct-03 | 5 | 20 | 5 | | 5 | 5 10/03/03 semiannual 62 |
| Apr-04 | 5 | 20 | 5 | | 5 | 5 04/01/04 semiannual 63 |
| Oct-04 | 5 | 20 | 5 | | 5 | 5 10/19/04 semiannual 64 |
| Apr-05 | 5 | 20 | 5 | | 5 | 5 04/22/05 semiannual 65 |
| Oct-05 | 5 | 20 | 5 | | 5 | 5 10/07/05 semiannual 66 |
| May-06 | 4.3 | 20 | 5 | | 4.65 | 4.65 05/11/06 semiannual 67 |
| Oct-06 | 4.3 | 20 | 5 | | 4.3 | 4.3 10/18/06 semiannual 68 |
| May-07 | 4.3 | 20 | 5 | | 4.3 | 4.3 05/22/07 semiannual 69 |
| Oct-07 | 4.3 | 20 | 5 | | 4.3 | 4.3 10/25/07 semiannual 70 |
| May-08 | 4.3 | 20 | 5 | | 4.3 | 4.3 05/13/08 semiannual 71 |
| Oct-08 | 4.3 | 20 | 5 | | 4.3 | 4.3 10/23/08 semiannual 72 |
| May-09 | 5 | 20 | 5 | | 4.65 | 4.65 05/09/09 semiannual 73 |
| Oct-09 | 5 | 20 | 5 | | 5 | 5 10/29/09 semiannual 74 |
| May-10 | 5 | 20 | 5 | | 5 | 5 05/20/10 semiannual 75 |
| Oct-10 | 5 | 20 | 5 | | 5 | 5 10/18/10 semiannual 76 |
| Jun-11 | 2 | 20 | 2 | | 3.5 | 3.5 06/02/11 semiannual 77 |
| Oct-11 | 5 | 20 | 5 | | 3.5 | 3.5 10/12/11 semiannual 78 |
| May-12 | 2 | 20 | 2 | | 3.5 | 3.5 05/18/12 semiannual 79 |
| Oct-12 | 2 | 20 | 2 | | 2 | 2 10/11/12 semiannual 80 |
| May-13 | 2 | 20 | 2 | | 2 | 2 05/17/13 semiannual 81 |
| Oct-13 | 2 | 20 | 2 | | 2 | 2 10/11/13 semiannual 82 |
| May-14 | 10 | 20 | 10 | | 6 | 6 05/05/14 semiannual 83 |
| Oct-14 | 2 | 20 | 2 | | 6 | 6 10/06/14 semiannual 84 |

MOVING AVERAGE TREND TEST

VDM-11

TETRACHLOROETHENE



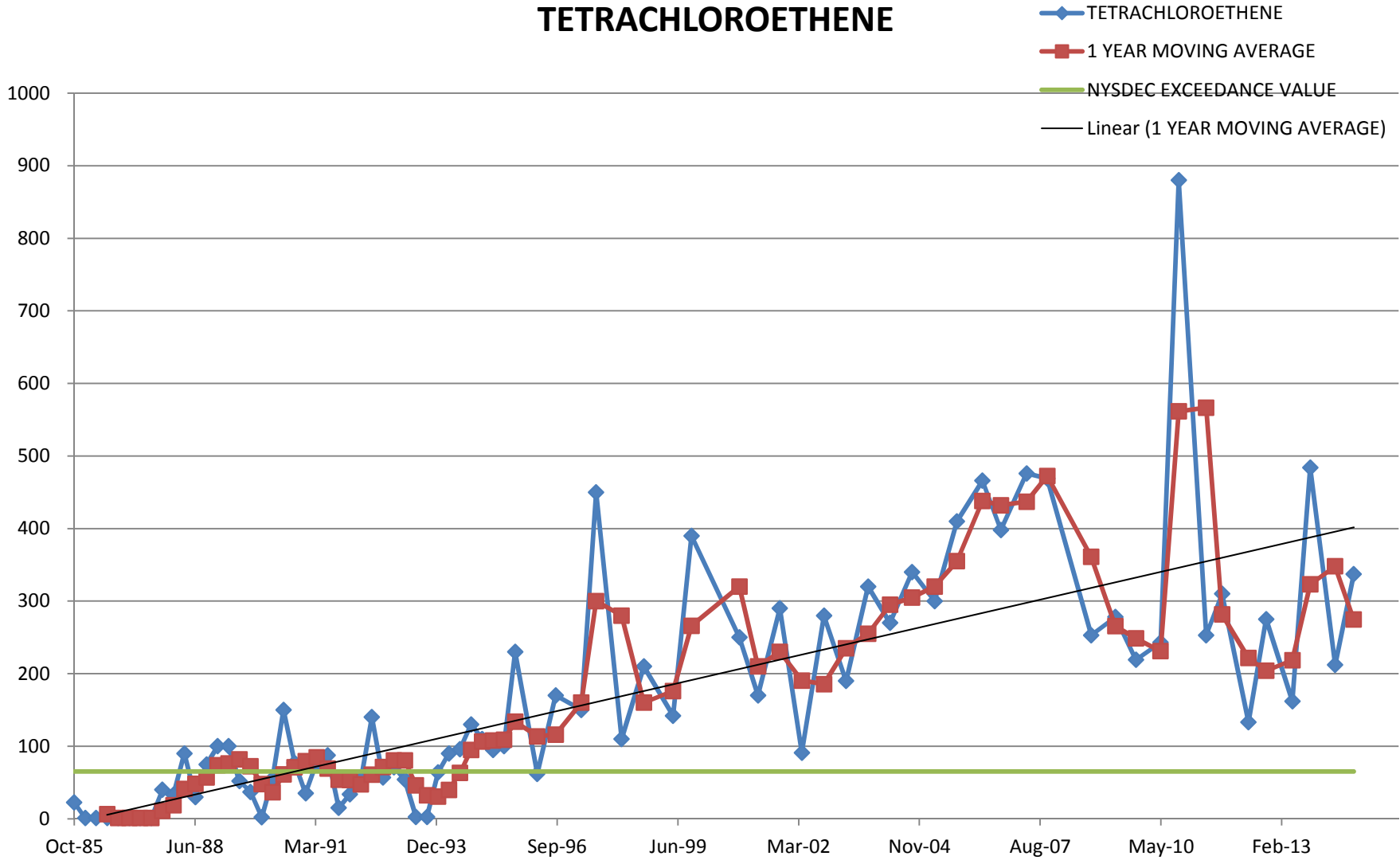
WELL VDM - 11 : TETRACHLOROETHENE

| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|--------------------------|-------------|------------------------|-----------------|--------------------|---------------|---------------------------------|
| - | - | - | - | - | - | - |
| Jan-87 | | 100 | 5 | TOTAL STD 37.5902 | | 1 |
| Apr-87 | | 100 | 5 | TOTAL Sx 4.6270 | | 2 |
| Jul-87 | 71.6 | 100 | 5 | TOTAL MEAN 23.9891 | | 3 |
| Oct-87 | 182 | 100 | 5 | TOTAL N 67 | | 4 |
| Jan-88 | 32.3 | 100 | 5 | TOTAL df 66 | | 5 |
| Apr-88 | 127 | 100 | 5 | | 103.23 | 6 |
| Jul-88 | 76.8 | 100 | 5 | | 104.53 | 7 |
| Oct-88 | 1 | 100 | 5 | | 59.28 | 8 |
| Jan-89 | 1 | 100 | 5 | | 51.45 | 9 |
| Apr-89 | 1 | 100 | 5 | | 19.95 | 10 |
| Jul-89 | 1 | 100 | 5 | | 1.00 | 11 |
| Oct-89 | 1 | 100 | 5 | | 1.00 | 12 |
| Jan-90 | 41 | 100 | 5 | | 11.00 | 13 |
| Apr-90 | 65 | 100 | 5 | | 27.00 | 14 |
| Jul-90 | 30 | 100 | 5 | | 34.25 | 15 |
| Oct-90 | 130 | 100 | 5 | | 66.50 | 16 |
| Jan-91 | 55 | 100 | 5 | | 70.00 | 17 |
| Apr-91 | 13 | 100 | 5 | | 57.00 | 18 |
| Jul-91 | 16 | 100 | 5 | | 53.50 | 19 |
| Oct-91 | 2 | 100 | 5 | | 21.50 | 20 |
| Jan-92 | 25 | 100 | 5 | | 14.00 | 21 |
| Apr-92 | 16 | 100 | 5 | | 14.75 | 22 |
| Jul-92 | 6.25 | 100 | 5 | | 12.31 | 23 |
| Oct-92 | 7.58 | 100 | 5 | | 13.71 | 24 |
| Jan-93 | 15.9 | 100 | 5 | | 11.43 | 25 |
| Apr-93 | 2.5 | 100 | 5 | | 8.06 | 26 |
| Jul-93 | 8.1 | 100 | 5 | | 8.52 | 27 |
| Oct-93 | 7.5 | 100 | 5 | | 8.50 | 28 |
| Jan-94 | 17 | 100 | 5 | | 8.78 | 29 |
| Apr-94 | 22 | 100 | 5 | | 13.65 | 30 |
| Jul-94 | 170 | 100 | 5 | | 54.13 | 31 |
| Oct-94 | 6.9 | 100 | 5 | | 53.98 | 32 |
| Jan-95 | 36 | 100 | 5 | | 58.73 | 33 |
| Apr-95 | 21 | 100 | 5 | | 58.48 | 34 |
| Jul-95 | 6.3 | 100 | 5 | | 17.55 | 35 |
| Oct-95 | 14 | 100 | 2.5 | | 19.33 | 36 |
| Apr-96 | 10 | 100 | 10 | | 10.075 | 37 |
| Sep-96 | 10 | 100 | 10 | | 10 | 10 9/17/1996 semiannual 38 |
| Apr-97 | 10 | 100 | 10 | | 10 | 10 4/3/1997 semiannual 39 |
| Aug-97 | 87 | 100 | 10 | | 48.5 | 48.5 8/27/1997 semiannual 40 |
| Mar-98 | 2.4 | 100 | 5 | | 44.7 | 44.7 3/24/1998 semiannual 41 |
| Sep-98 | 38 | 100 | 5 | | 20.2 | 20.2 9/22/1998 semiannual 42 |
| May-99 | 10 | 100 | 10 | | 24 | 24 5/11/1999 semiannual 43 |
| Oct-99 | 16 | 100 | 10 | | 13 | 13 10/5/1999 semiannual 44 |
| May-00 | 10 | 100 | 10 | | 13 | 13 5/16/2000 semiannual 45 |
| Nov-00 | 14 | 100 | 5 | | 12 | 12 11/28/2000 semiannual 46 |
| Apr-01 | 1 | 100 | 5 | | 7.5 | 7.5 4/4/2001 semiannual 47 |
| Oct-01 | 13 | 100 | 5 | | 7 | 7 10/18/2001 semiannual 48 |
| Apr-02 | 4 | 100 | 5 | | 8.5 | 8.5 4/18/2002 semiannual 49 |
| Oct-02 | 10 | 100 | 5 | | 7 | 7 10/3/2002 semiannual 50 |
| Apr-03 | 6 | 100 | 5 | | 8 | 8 4/25/2003 semiannual 51 |
| Oct-03 | 8 | 100 | 5 | | 7 | 7 10/3/2003 semiannual 52 |
| Apr-04 | 2 | 100 | 5 | | 5 | 5 4/1/2004 semiannual 53 |
| Oct-04 | 7 | 100 | 5 | | 4.5 | 4.5 10/19/2004 semiannual 54 |
| Apr-05 | 8 | 100 | 5 | | 7.5 | 7.5 4/22/2005 semiannual 55 |
| Oct-05 | 8 | 100 | 5 | | 8 | 8 10/7/2005 semiannual 56 |
| May-06 | 8.51 | 100 | 5 | | 8.255 | 8.255 5/11/2006 semiannual 57 |
| Oct-06 | 23.6 | 100 | 5 | | 16.055 | 16.055 10/18/2006 semiannual 58 |
| May-07 | 9.4 | 100 | 5 | | 16.5 | 16.5 5/22/2007 semiannual 59 |
| Oct-07 | 10.1 | 100 | 5 | | 9.75 | 9.75 10/25/2007 semiannual 60 |
| May-08 | 4.3 | 100 | 5 | | 7.2 | 7.2 5/13/2008 semiannual 61 |
| Oct-08 | 5.5 | 100 | 5 | | 4.9 | 4.9 10/23/2008 semiannual 62 |
| May-09 | 7.5 | 100 | 5 | | 6.5 | 6.5 5/12/2009 semiannual 63 |
| Oct-09 | 6.73 | 100 | 5 | | 7.115 | 7.115 10/29/2009 semiannual 64 |
| May-10 | 6.32 | 100 | 5 | | 6.525 | 6.525 5/20/2010 semiannual 65 |
| Oct-10 | 8.26 | 100 | 5 | | 7.29 | 7.29 10/18/2010 semiannual 66 |
| Jun-11 | 6.62 | 100 | 5 | | 6.47 | 6.47 6/2/2011 semiannual 67 |
| Oct-11 | 5.3 | 100 | 5 | | 6.78 | 6.78 10/12/2011 semiannual 68 |
| May-12 | 2 | 100 | 2 | | 4.31 | 4.31 5/18/2012 semiannual 69 |
| Oct-12 | 6.4 | 100 | 2 | | 5.85 | 5.85 10/11/2012 semiannual 70 |
| May-13 | 3.8 | 100 | 3.8 | | 2.9 | 2.9 5/17/2013 semiannual 71 |
| Oct-13 | 8.6 | 100 | 2 | | 7.5 | 7.5 10/11/2013 semiannual 72 |
| May-14 | 10 | 100 | 10 | | 6.9 | 6.9 5/5/2014 semiannual 73 |
| Oct-14 | 6.5 | 100 | 2 | | 7.55 | 7.55 10/6/2014 semiannual 74 |

MOVING AVERAGE TREND TEST

VDM-14

TETRACHLOROETHENE

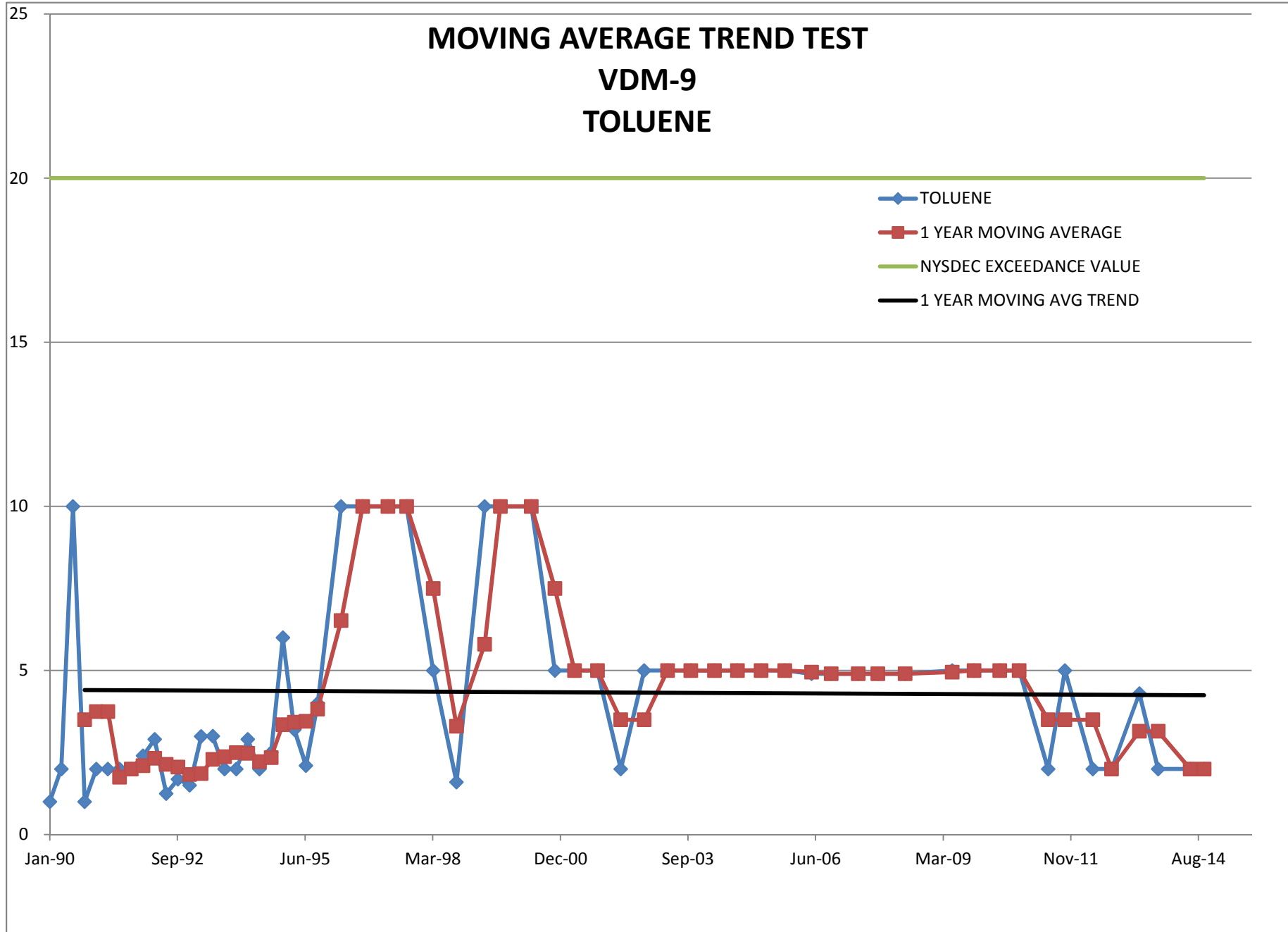


WELL VDM - 14 : TETRACHLOROETHENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|----------------|----------|------------------|--------------|--------------------|------------|--------------------------------|
| ----- | - | - | - | - | - | - |
| Oct-85 | 22.4 | 65 | 5 | TOTAL STE 158.1411 | | 1 |
| Jan-86 | 1 | 65 | 5 | TOTAL Sx 18.7679 | | 2 |
| Apr-86 | 1 | 65 | 5 | TOTAL MEA 158.1597 | | 3 |
| Jul-86 | 1 | 65 | 5 | TOTAL N 72 | 6.35 | 4 |
| Oct-86 | 1 | 65 | 5 | TOTAL df 71 | 1.00 | 5 |
| Jan-87 | 1 | 65 | 5 | | 1.00 | 6 |
| Apr-87 | 1 | 65 | 5 | | 1.00 | 7 |
| Jul-87 | 1 | 65 | 5 | | 1.00 | 8 |
| Oct-87 | 40 | 65 | 5 | | 10.75 | 9 |
| Jan-88 | 33 | 65 | 5 | | 18.75 | 10 |
| Apr-88 | 90 | 65 | 5 | | 41.00 | 11 |
| Jul-88 | 30 | 65 | 5 | | 48.25 | 12 |
| Oct-88 | 75 | 65 | 5 | | 57.00 | 13 |
| Jan-89 | 100 | 65 | 5 | | 73.75 | 14 |
| Apr-89 | 100 | 65 | 5 | | 76.25 | 15 |
| Jul-89 | 52 | 65 | 5 | | 81.75 | 16 |
| Oct-89 | 37 | 65 | 5 | | 72.25 | 17 |
| Jan-90 | 2 | 65 | 5 | | 47.75 | 18 |
| Apr-90 | 55 | 65 | 5 | | 36.50 | 19 |
| Jul-90 | 150 | 65 | 5 | | 61.00 | 20 |
| Oct-90 | 77 | 65 | 5 | | 71.00 | 21 |
| Jan-91 | 35 | 65 | 5 | | 79.25 | 22 |
| Apr-91 | 77.1 | 65 | 5 | | 84.78 | 23 |
| Jul-91 | 87.3 | 65 | 5 | | 69.10 | 24 |
| Oct-91 | 15 | 65 | 5 | | 53.60 | 25 |
| Jan-92 | 33.7 | 65 | 5 | | 53.28 | 26 |
| Apr-92 | 54 | 65 | 5 | | 47.50 | 27 |
| Jul-92 | 140 | 65 | 5 | | 60.68 | 28 |
| Oct-92 | 57 | 65 | 5 | | 71.18 | 29 |
| Jan-93 | 71 | 65 | 5 | | 80.50 | 30 |
| Apr-93 | 54 | 65 | 5 | | 80.50 | 31 |
| Jul-93 | 2.5 | 65 | 5 | | 46.13 | 32 |
| Oct-93 | 2.5 | 65 | 5 | | 32.50 | 33 |
| Jan-94 | 64 | 65 | 5 | | 30.75 | 34 |
| Apr-94 | 90 | 65 | 5 | | 39.75 | 35 |
| Jul-94 | 96 | 65 | 5 | | 63.13 | 36 |
| Oct-94 | 130 | 65 | 5 | | 95.00 | 37 |
| Jan-95 | 110 | 65 | 5 | | 106.50 | 38 |
| Apr-95 | 95 | 65 | 5 | | 107.75 | 39 |
| Jul-95 | 100 | 65 | 5 | | 108.75 | 40 |
| Oct-95 | 230 | 65 | 5 | | 133.75 | 41 |
| Apr-96 | 62 | 65 | 5 | | 113.5 | 42 |
| Sep-96 | 170 | 65 | 10 | | 116 | 116 9/17/1996 semiannual 43 |
| Apr-97 | 150 | 65 | 10 | | 160 | 160 4/3/1997 semiannual 44 |
| Aug-97 | 450 | 65 | 100 | | 300 | 300 8/27/1997 semiannual 45 |
| Mar-98 | 110 | 65 | 5 | | 280 | 280 3/24/1998 semiannual 46 |
| Sep-98 | 210 | 65 | 5 | | 160 | 160 9/22/1998 semiannual 47 |
| May-99 | 142 | 65 | 10 | | 176 | 176 5/11/1999 semiannual 48 |
| Oct-99 | 390 | 65 | 10 | | 266 | 266 10/5/1999 semiannual 49 |
| Nov-00 | 250 | 65 | 5 | | 320 | 320 11/28/2000 semiannual 50 |
| Apr-01 | 170 | 65 | 5 | | 210 | 210 4/4/2001 semiannual 51 |
| Oct-01 | 290 | 65 | 5 | | 230 | 230 10/18/2001 semiannual 52 |
| Apr-02 | 91 | 65 | 5 | | 190.5 | 190.5 4/18/2002 semiannual 53 |
| Oct-02 | 280 | 65 | 25 | | 185.5 | 185.5 10/3/2002 semiannual 54 |
| Apr-03 | 190 | 65 | 10 | | 235 | 235 4/25/2003 semiannual 55 |
| Oct-03 | 320 | 65 | 5 | | 255 | 255 10/3/2003 semiannual 56 |
| Apr-04 | 270 | 65 | 5 | | 295 | 295 4/1/2004 semiannual 57 |
| Oct-04 | 340 | 65 | 5 | | 305 | 305 10/19/2004 semiannual 58 |
| Apr-05 | 300 | 65 | 5 | | 320 | 320 4/22/2005 semiannual 59 |
| Oct-05 | 410 | 65 | 5 | | 355 | 355 10/7/2005 semiannual 60 |
| May-06 | 466 | 65 | 5 | | 438 | 438 5/11/2006 semiannual 61 |
| Oct-06 | 398 | 65 | 5 | | 432 | 432 10/18/2006 semiannual 62 |
| May-07 | 476 | 65 | 5 | | 437 | 437 5/22/2007 semiannual 63 |
| Oct-07 | 469 | 65 | 5 | | 472.5 | 472.5 10/25/2007 semiannual 64 |
| Oct-08 | 253 | 65 | 5 | | 361 | 361 10/23/2008 semiannual 65 |
| May-09 | 278 | 65 | 25 | | 265.5 | 265.5 5/12/2009 semiannual 66 |
| Oct-09 | 219 | 65 | 25 | | 248.5 | 248.5 10/29/2009 semiannual 67 |
| May-10 | 243 | 65 | 25 | | 231 | 231 5/20/2010 semiannual 68 |
| Oct-10 | 880 | 65 | 25 | | 561.5 | 561.5 10/18/2010 semiannual 69 |
| Jun-11 | 253 | 65 | 25 | | 566.5 | 566.5 6/2/2011 semiannual 70 |
| Oct-11 | 310 | 65 | 25 | | 281.5 | 281.5 10/12/2011 semiannual 71 |
| May-12 | 133 | 65 | 2 | | 221.5 | 221.5 5/18/2012 semiannual 72 |
| Oct-12 | 275 | 65 | 2 | | 204 | 204 10/11/2012 semiannual 73 |
| May-13 | 162 | 65 | 2 | | 218.5 | 218.5 5/17/2013 semiannual 74 |
| Oct-13 | 484 | 65 | 2 | | 323 | 323 10/11/2013 semiannual 75 |
| May-14 | 212 | 65 | 2 | | 348 | 348 5/5/2014 semiannual 76 |
| Oct-14 | 337 | 65 | 2 | | 274.5 | 274.5 10/6/2014 semiannual 77 |

MOVING AVERAGE TREND TEST VDM-9 TOLUENE

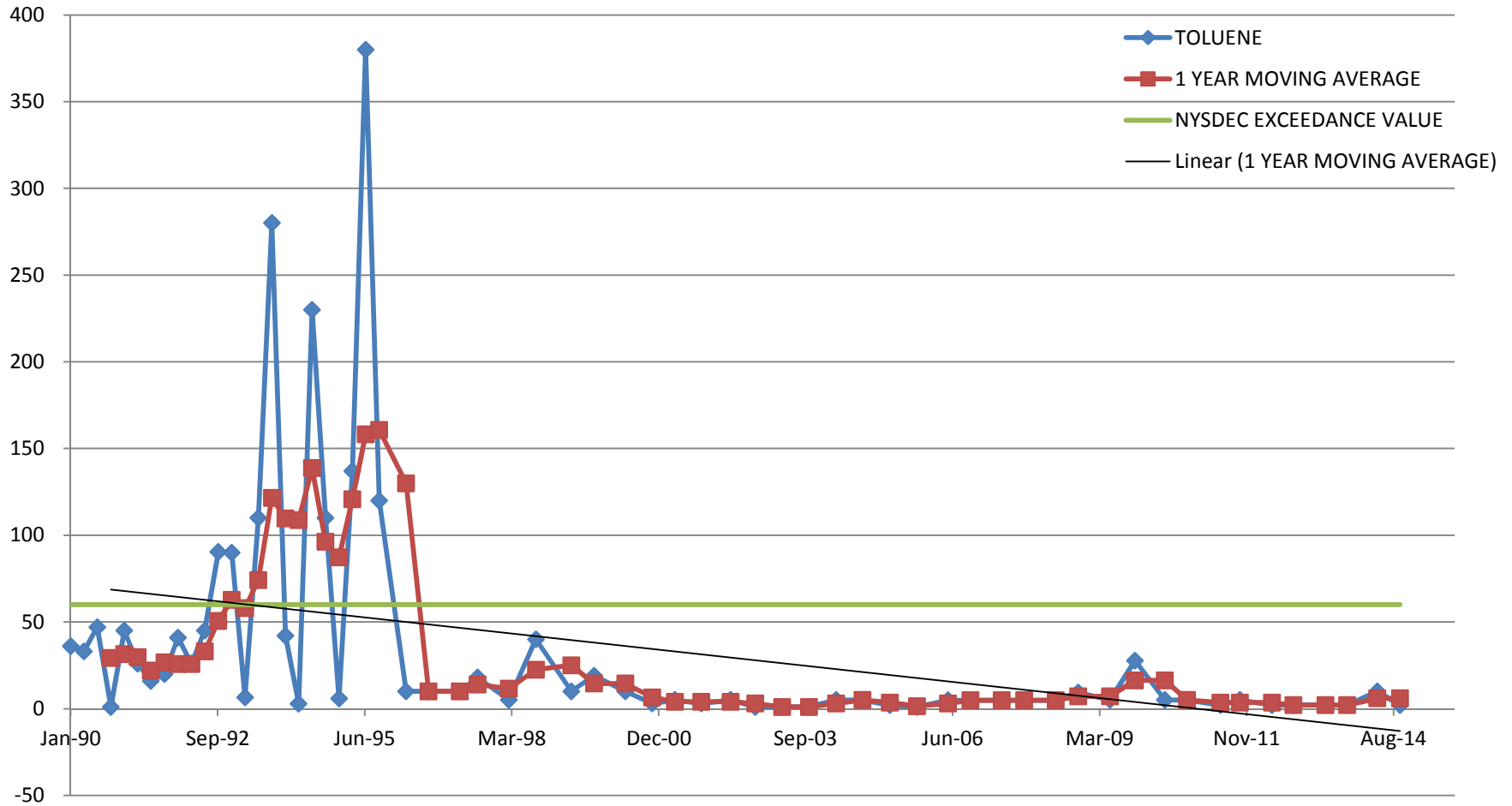
- TOLUENE
- 1 YEAR MOVING AVERAGE
- NYSDEC EXCEEDANCE VALUE
- 1 YEAR MOVING AVG TREND



WELL VDM - 9 : TOLUENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|--------------------|---------------|------------------------|
| Jan-87 | | 20 | | TOTAL STD 2.688421 | | 1 |
| Apr-87 | | 20 | | TOTAL Sx 0.365848 | | 2 |
| Jul-87 | | 20 | | TOTAL MEAN 4.446 | | 3 |
| Oct-87 | | 20 | | TOTAL N 55 | | 4 |
| Jan-88 | | 20 | | TOTAL df 54 | | 5 |
| Apr-88 | | 20 | | | | 6 |
| Jul-88 | | 20 | | | | 7 |
| Oct-88 | | 20 | | | | 8 |
| Jan-89 | | 20 | | | | 9 |
| Apr-89 | | 20 | | | | 10 |
| Jul-89 | | 20 | | | | 11 |
| Oct-89 | | 20 | | | | 12 |
| Jan-90 | 1 | 20 | 5 | | | 13 |
| Apr-90 | 2 | 20 | 5 | | | 14 |
| Jul-90 | 10 | 20 | 5 | | | 15 |
| Oct-90 | 1 | 20 | 5 | | 3.50 | 16 |
| Jan-91 | 2 | 20 | 5 | | 3.75 | 17 |
| Apr-91 | 2 | 20 | 5 | | 3.75 | 18 |
| Jul-91 | 2 | 20 | 5 | | 1.75 | 19 |
| Oct-91 | 2 | 20 | 5 | | 2.00 | 20 |
| Jan-92 | 2.4 | 20 | 5 | | 2.10 | 21 |
| Apr-92 | 2.9 | 20 | 5 | | 2.33 | 22 |
| Jul-92 | 1.25 | 20 | 5 | | 2.14 | 23 |
| Oct-92 | 1.69 | 20 | 5 | | 2.06 | 24 |
| Jan-93 | 1.5 | 20 | 5 | | 1.84 | 25 |
| Apr-93 | 2.99 | 20 | 5 | | 1.86 | 26 |
| Jul-93 | 3 | 20 | 5 | | 2.30 | 27 |
| Oct-93 | 2 | 20 | 5 | | 2.37 | 28 |
| Jan-94 | 2 | 20 | 5 | | 2.50 | 29 |
| Apr-94 | 3 | 20 | 5 | | 2.48 | 30 |
| Jul-94 | 2.0 | 20 | 5 | | 2.23 | 31 |
| Oct-94 | 2.5 | 20 | 5 | | 2.35 | 32 |
| Jan-95 | 6 | 20 | 5 | | 3.35 | 33 |
| Apr-95 | 3.2 | 20 | 5 | | 3.43 | 34 |
| Jul-95 | 2.1 | 20 | 5 | | 3.45 | 35 |
| Oct-95 | 4 | 20 | 4 | | 3.83 | 36 |
| Apr-96 | 10 | 20 | 10 | | 6.525 | 37 |
| Sep-96 | 10 | 20 | 10 | | 10 | 09/17/96 semiannual 38 |
| Apr-97 | 10 | 20 | 10 | | 10 | 04/03/97 semiannual 39 |
| Aug-97 | 10 | 20 | 10 | | 10 | 08/27/97 semiannual 40 |
| Mar-98 | 5 | 20 | 5 | | 7.5 | 03/24/98 semiannual 41 |
| Sep-98 | 1.6 | 20 | 5 | | 3.3 | 09/22/98 semiannual 42 |
| May-99 | 10 | 20 | 10 | | 5.8 | 05/11/99 semiannual 43 |
| Sep-99 | 10 | 20 | 10 | | 10 | 09/29/99 semiannual 44 |
| May-00 | 10 | 20 | 10 | | 10 | 05/16/00 semiannual 45 |
| Nov-00 | 5 | 20 | 5 | | 7.5 | 11/28/00 semiannual 46 |
| Apr-01 | 5 | 20 | 5 | | 5 | 04/04/01 semiannual 47 |
| Oct-01 | 5 | 20 | 5 | | 5 | 10/18/01 semiannual 48 |
| Apr-02 | 2 | 20 | 5 | | 3.5 | 04/18/02 semiannual 49 |
| Oct-02 | 5 | 20 | 5 | | 3.5 | 10/03/02 semiannual 50 |
| Apr-03 | 5 | 20 | 5 | | 5 | 04/25/03 semiannual 51 |
| Oct-03 | 5 | 20 | 5 | | 5 | 10/03/03 semiannual 52 |
| Apr-04 | 5 | 20 | 5 | | 5 | 04/01/04 semiannual 53 |
| Oct-04 | 5 | 20 | 5 | | 5 | 10/19/04 semiannual 54 |
| Apr-05 | 5 | 20 | 5 | | 5 | 04/22/05 semiannual 55 |
| Oct-05 | 5 | 20 | 5 | | 5 | 10/07/05 semiannual 56 |
| May-06 | 4.9 | 20 | 5 | | 4.95 | 05/11/06 semiannual 57 |
| Oct-06 | 4.9 | 20 | 5 | | 4.9 | 10/10/06 semiannual 58 |
| May-07 | 4.9 | 20 | 5 | | 4.9 | 05/22/07 semiannual 59 |
| Oct-07 | 4.9 | 20 | 5 | | 4.9 | 10/25/07 semiannual 60 |
| May-08 | 4.9 | 20 | 5 | | 4.9 | 05/13/08 semiannual 61 |
| May-09 | 5 | 20 | 5 | | 4.95 | 05/12/09 semiannual 63 |
| Oct-09 | 5 | 20 | 5 | | 5 | 10/29/09 semiannual 64 |
| May-10 | 5 | 20 | 5 | | 5 | 05/20/10 semiannual 65 |
| Oct-10 | 5 | 20 | 5 | | 5 | 10/18/10 semiannual 66 |
| Jun-11 | 2 | 20 | 2 | | 3.5 | 06/02/11 semiannual 67 |
| Oct-11 | 5 | 20 | 5 | | 3.5 | 10/12/11 semiannual 68 |
| May-12 | 2 | 20 | 2 | | 3.5 | 05/18/12 semiannual 69 |
| Oct-12 | 2 | 20 | 2 | | 2 | 10/11/12 semiannual 70 |
| May-13 | 4.3 | 20 | 2 | | 3.15 | 05/17/13 semiannual 71 |
| Oct-13 | 2 | 20 | 2 | | 3.15 | 10/11/13 semiannual 72 |
| Jun-14 | 2 | 20 | 2 | | 2 | 06/20/14 semiannual 73 |
| Oct-14 | 2 | 20 | 2 | | 2 | 10/06/14 semiannual 74 |

MOVING AVERAGE TREND TET VDM-10 TOLUENE

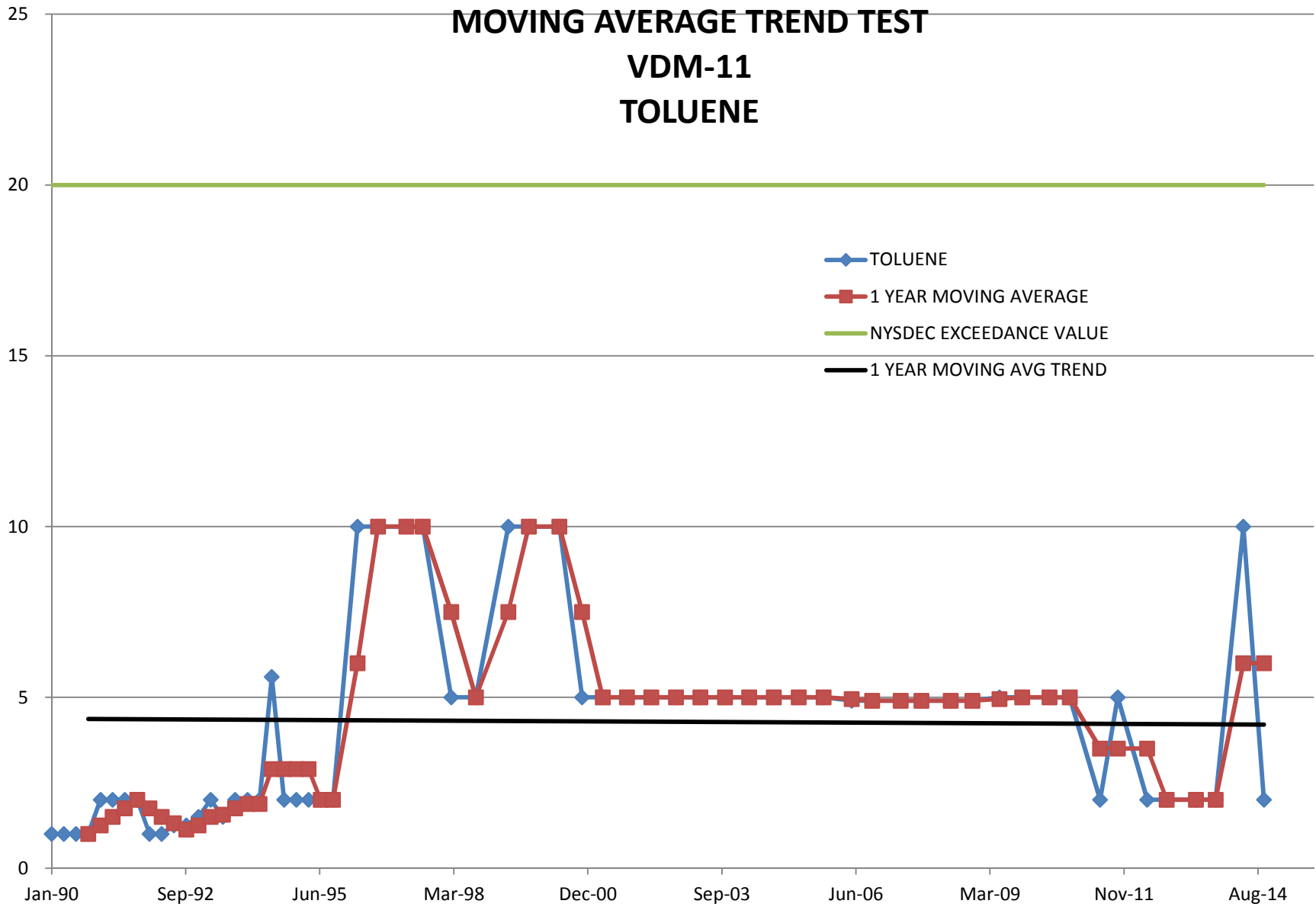


WELL VDM - 10 : TOLUENE

WELL VDM - 10 : TOLUENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVERAGE | SAMPLING EVENT NO. |
|-------------------|-------------|------------------------|----------------|---------------------|-------------------|------------------------------|
| - | - | - | - | - | - | - |
| Jul-84 | | 60 | 5 | TOTAL STD 70.966669 | | 1 |
| Oct-84 | | 60 | 5 | TOTAL Sx 9.5691437 | | 2 |
| Jan-85 | | 60 | 5 | TOTAL ME/ 39.071429 | | 3 |
| Apr-85 | | 60 | 5 | TOTAL N 56 | | 4 |
| Jul-85 | | 60 | 5 | TOTAL df 55 | | 5 |
| Oct-85 | | 60 | 5 | | | 6 |
| Jan-86 | | 60 | 5 | | | 7 |
| Apr-86 | | 60 | 5 | | | 8 |
| Jul-86 | | 60 | 5 | | | 9 |
| Oct-86 | | 60 | 5 | | | 10 |
| Jan-87 | | 60 | 5 | | | 11 |
| Apr-87 | | 60 | 5 | | | 12 |
| Jul-87 | | 60 | 5 | | | 13 |
| Oct-87 | | 60 | 5 | | | 14 |
| Jan-88 | | 60 | 5 | | | 15 |
| Apr-88 | | 60 | 5 | | | 16 |
| Jul-88 | | 60 | 5 | | | 17 |
| Oct-88 | | 60 | 5 | | | 18 |
| Jan-89 | | 60 | 5 | | | 19 |
| Apr-89 | | 60 | 5 | | | 20 |
| Jul-89 | | 60 | 5 | | | 21 |
| Oct-89 | | 60 | 5 | | | 22 |
| Jan-90 | 36 | 60 | 5 | | | 23 |
| Apr-90 | 33 | 60 | 5 | | | 24 |
| Jul-90 | 47 | 60 | 5 | | | 25 |
| Oct-90 | 1 | 60 | 5 | | 29.25 | 26 |
| Jan-91 | 45 | 60 | 5 | | 31.50 | 27 |
| Apr-91 | 26 | 60 | 5 | | 29.75 | 28 |
| Jul-91 | 16 | 60 | 5 | | 22.00 | 29 |
| Oct-91 | 20 | 60 | 5 | | 26.75 | 30 |
| Jan-92 | 41 | 60 | 5 | | 25.75 | 31 |
| Apr-92 | 26 | 60 | 5 | | 25.75 | 32 |
| Jul-92 | 45 | 60 | 5 | | 33.00 | 33 |
| Oct-92 | 90.4 | 60 | 5 | | 50.60 | 34 |
| Jan-93 | 89.9 | 60 | 5 | | 62.83 | 35 |
| Apr-93 | 6.5 | 60 | 5 | | 57.95 | 36 |
| Jul-93 | 110 | 60 | 5 | | 74.20 | 37 |
| Oct-93 | 280 | 60 | 5 | | 121.60 | 38 |
| Jan-94 | 42 | 60 | 5 | | 109.63 | 39 |
| Apr-94 | 2.9 | 60 | 5 | | 108.73 | 40 |
| Jul-94 | 230 | 60 | 5 | | 138.73 | 41 |
| Oct-94 | 110 | 60 | 5 | | 96.23 | 42 |
| Jan-95 | 5.8 | 60 | 5 | | 87.18 | 43 |
| Apr-95 | 137 | 60 | 5 | | 120.70 | 44 |
| Jul-95 | 380 | 60 | 5 | | 158.20 | 45 |
| Oct-95 | 120 | 60 | 2 | | 160.70 | 46 |
| Apr-96 | 10 | 60 | 10 | | 130.00 | 47 |
| Sep-96 | 10 | 60 | 10 | | 10 | 10 09/17/96 semiannual 48 |
| Apr-97 | 10 | 60 | 10 | | 10 | 10 04/03/97 semiannual 49 |
| Aug-97 | 18 | 60 | 10 | | 14 | 14 08/27/97 semiannual 50 |
| Mar-98 | 5 | 60 | 5 | | 11.5 | 11.5 03/24/98 semiannual 51 |
| Sep-98 | 40 | 60 | 5 | | 22.5 | 22.5 09/22/98 semiannual 52 |
| May-99 | 10 | 60 | 10 | | 25 | 25 05/11/99 semiannual 53 |
| Oct-99 | 19 | 60 | 10 | | 14.5 | 14.5 10/05/99 semiannual 54 |
| May-00 | 10 | 60 | 10 | | 14.5 | 14.5 05/16/00 semiannual 55 |
| Nov-00 | 3 | 60 | 5 | | 6.5 | 6.5 11/28/00 semiannual 56 |
| Apr-01 | 5 | 60 | 5 | | 4 | 4 04/04/01 semiannual 57 |
| Oct-01 | 3 | 60 | 5 | | 4 | 4 10/18/01 semiannual 58 |
| Apr-02 | 5 | 60 | 5 | | 4 | 4 04/18/02 semiannual 59 |
| Oct-02 | 1 | 60 | 5 | | 3 | 3 10/03/02 semiannual 60 |
| Apr-03 | 1 | 60 | 5 | | 1 | 1 04/25/03 semiannual 61 |
| Oct-03 | 1 | 60 | 5 | | 1 | 1 10/03/03 semiannual 62 |
| Apr-04 | 5 | 60 | 5 | | 3 | 3 04/01/04 semiannual 63 |
| Oct-04 | 5 | 60 | 5 | | 5 | 5 10/19/04 semiannual 64 |
| Apr-05 | 2 | 60 | 5 | | 3.5 | 3.5 04/22/05 semiannual 65 |
| Oct-05 | 1 | 60 | 5 | | 1.5 | 1.5 10/07/05 semiannual 66 |
| May-06 | 4.9 | 60 | 5 | | 2.95 | 2.95 05/11/06 semiannual 67 |
| Oct-06 | 4.9 | 60 | 5 | | 4.9 | 4.9 10/18/06 semiannual 68 |
| May-07 | 4.9 | 60 | 5 | | 4.9 | 4.9 05/22/07 semiannual 69 |
| Oct-07 | 4.9 | 60 | 5 | | 4.9 | 4.9 10/25/07 semiannual 70 |
| May-08 | 4.9 | 60 | 5 | | 4.9 | 4.9 05/14/08 semiannual 71 |
| Oct-08 | 9.3 | 60 | 5 | | 7.1 | 7.1 10/23/08 semiannual 72 |
| May-09 | 5 | 60 | 5 | | 7.15 | 7.15 05/12/09 semiannual 73 |
| Oct-09 | 27.7 | 60 | 5 | | 16.35 | 16.35 05/13/09 semiannual 74 |
| May-10 | 5 | 60 | 5 | | 16.35 | 16.35 05/14/09 semiannual 75 |
| Oct-10 | 5 | 60 | 5 | | 5 | 5 05/15/09 semiannual 76 |
| Jun-11 | 2 | 60 | 2 | | 3.5 | 3.5 06/02/11 semiannual 77 |
| Oct-11 | 5 | 60 | 5 | | 3.5 | 3.5 10/12/11 semiannual 78 |
| May-12 | 2 | 60 | 2 | | 3.5 | 3.5 05/18/12 semiannual 79 |
| Oct-12 | 2.1 | 60 | 2 | | 2.05 | 2.05 10/11/12 semiannual 80 |
| May-13 | 2.1 | 60 | 2 | | 2.1 | 2.1 05/17/13 semiannual 81 |
| Oct-13 | 2 | 60 | 2 | | 2.05 | 2.05 10/11/13 semiannual 82 |
| May-14 | 10 | 60 | 10 | | 6 | 6 05/05/14 semiannual 83 |
| Oct-14 | 2 | 60 | 2 | | 6 | 6 10/06/14 semiannual 84 |

MOVING AVERAGE TREND TEST VDM-11 TOLUENE

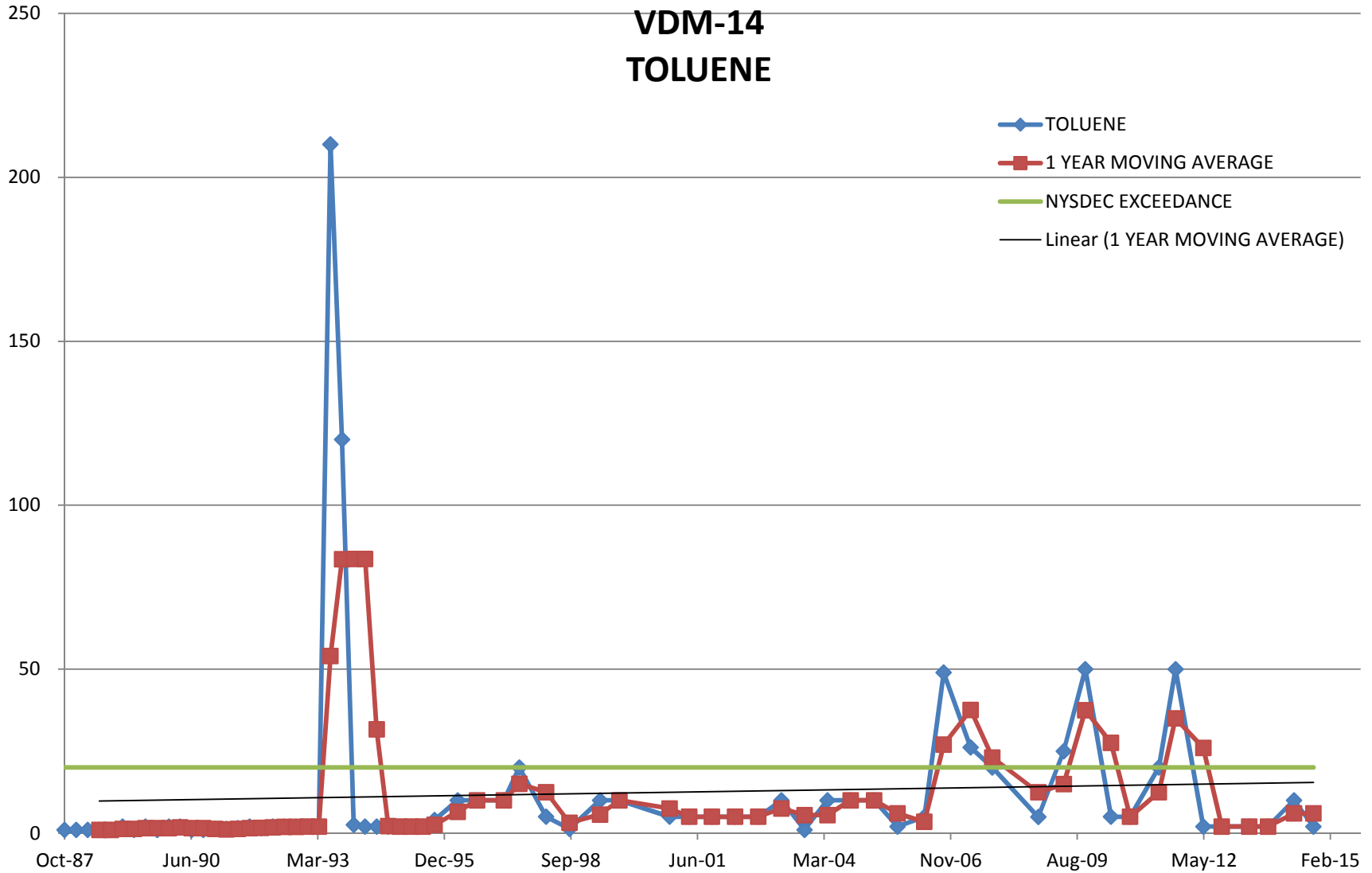


WELL VDM - 11 : TOLUENE

| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | | | |
|--------------------------|-------------|------------------------|-----------------|------------------|---------------|--------------|------------|------------|----|
| - | - | - | - | - | - | - | | | |
| Jan-87 | | 20 | 5 | TOTAL STE 2.7073 | | 1 | | | |
| Apr-87 | | 20 | 5 | TOTAL Sx 0.3618 | | 2 | | | |
| Jul-87 | | 20 | 5 | TOTAL MEA 4.1491 | | 3 | | | |
| Oct-87 | | 20 | 5 | TOTAL N 57 | | 4 | | | |
| Jan-88 | | 20 | 5 | TOTAL df 56 | | 5 | | | |
| Apr-88 | | 20 | 5 | | | 6 | | | |
| Jul-88 | | 20 | 5 | | | 7 | | | |
| Oct-88 | | 20 | 5 | | | 8 | | | |
| Jan-89 | | 20 | 5 | | | 9 | | | |
| Apr-89 | | 20 | 5 | | | 10 | | | |
| Jul-89 | | 20 | 5 | | | 11 | | | |
| Oct-89 | | 20 | 5 | | | 12 | | | |
| Jan-90 | 1 | 20 | 5 | | | 13 | | | |
| Apr-90 | 1 | 20 | 5 | | | 14 | | | |
| Jul-90 | 1 | 20 | 5 | | | 15 | | | |
| Oct-90 | 1 | 20 | 5 | | 1.00 | 16 | | | |
| Jan-91 | 2 | 20 | 5 | | 1.25 | 17 | | | |
| Apr-91 | 2 | 20 | 5 | | 1.50 | 18 | | | |
| Jul-91 | 2 | 20 | 5 | | 1.75 | 19 | | | |
| Oct-91 | 2 | 20 | 5 | | 2.00 | 20 | | | |
| Jan-92 | 1 | 20 | 5 | | 1.75 | 21 | | | |
| Apr-92 | 1 | 20 | 5 | | 1.50 | 22 | | | |
| Jul-92 | 1.25 | 20 | 5 | | 1.31 | 23 | | | |
| Oct-92 | 1.25 | 20 | 5 | | 1.13 | 24 | | | |
| Jan-93 | 1.5 | 20 | 5 | | 1.25 | 25 | | | |
| Apr-93 | 2 | 20 | 5 | | 1.50 | 26 | | | |
| Jul-93 | 1.5 | 20 | 5 | | 1.56 | 27 | | | |
| Oct-93 | 2 | 20 | 5 | | 1.75 | 28 | | | |
| Jan-94 | 2 | 20 | 5 | | 1.88 | 29 | | | |
| Apr-94 | 2 | 20 | 5 | | 1.88 | 30 | | | |
| Jul-94 | 5.6 | 20 | 5 | | 2.90 | 31 | | | |
| Oct-94 | 2 | 20 | 5 | | 2.90 | 32 | | | |
| Jan-95 | 2 | 20 | 5 | | 2.90 | 33 | | | |
| Apr-95 | 2 | 20 | 5 | | 2.90 | 34 | | | |
| Jul-95 | 2 | 20 | 5 | | 2.00 | 35 | | | |
| Oct-95 | 2 | 20 | 2 | | 2.00 | 36 | | | |
| Apr-96 | 10 | 20 | 10 | | 6 | 37 | | | |
| Sep-96 | 10 | 20 | 10 | | 10 | 10 | 9/17/1996 | semiannual | 38 |
| Apr-97 | 10 | 20 | 10 | | 10 | 10 | 4/3/1997 | semiannual | 39 |
| Aug-97 | 10 | 20 | 10 | | 10 | 10 | 8/27/1997 | semiannual | 40 |
| Mar-98 | 5 | 20 | 5 | | 7.5 | 7.5 | 3/24/1998 | semiannual | 41 |
| Sep-98 | 5 | 20 | 5 | | 5 | 5 | 9/22/1998 | semiannual | 42 |
| May-99 | 10 | 20 | 10 | | 7.5 | 7.5 | 5/11/1999 | semiannual | 43 |
| Oct-99 | 10 | 20 | 10 | | 10 | 10 | 10/5/1999 | semiannual | 44 |
| May-00 | 10 | 20 | 10 | | 10 | 10 | 5/16/2000 | semiannual | 45 |
| Nov-00 | 5 | 20 | 5 | | 7.5 | 7.5 | 11/28/2000 | semiannual | 46 |
| Apr-01 | 5 | 20 | 5 | | 5 | 5 | 4/4/2001 | semiannual | 47 |
| Oct-01 | 5 | 20 | 5 | | 5 | 5 | 10/18/2001 | semiannual | 48 |
| Apr-02 | 5 | 20 | 5 | | 5 | 5 | 4/18/2002 | semiannual | 49 |
| Oct-02 | 5 | 20 | 5 | | 5 | 5 | 10/3/2002 | semiannual | 50 |
| Apr-03 | 5 | 20 | 5 | | 5 | 5 | 4/25/2003 | semiannual | 51 |
| Oct-03 | 5 | 20 | 5 | | 5 | 5 | 10/3/2003 | semiannual | 52 |
| Apr-04 | 5 | 20 | 5 | | 5 | 5 | 4/1/2004 | semiannual | 53 |
| Oct-04 | 5 | 20 | 5 | | 5 | 5 | 10/19/2004 | semiannual | 54 |
| Apr-05 | 5 | 20 | 5 | | 5 | 5 | 4/22/2005 | semiannual | 55 |
| Oct-05 | 5 | 20 | 5 | | 5 | 5 | 10/7/2005 | semiannual | 56 |
| May-06 | 4.9 | 20 | 5 | | 4.95 | 4.95 | 5/11/2006 | semiannual | 57 |
| Oct-06 | 4.9 | 20 | 5 | | 4.9 | 4.9 | 10/18/2006 | semiannual | 58 |
| May-07 | 4.9 | 20 | 5 | | 4.9 | 4.9 | 5/22/2007 | semiannual | 59 |
| Oct-07 | 4.9 | 20 | 5 | | 4.9 | 4.9 | 10/25/2007 | semiannual | 60 |
| May-08 | 4.9 | 20 | 5 | | 4.9 | 4.9 | 5/13/2008 | semiannual | 61 |
| Oct-08 | 4.9 | 20 | 5 | | 4.9 | 4.9 | 10/23/2008 | semiannual | 62 |
| May-09 | 5 | 20 | 5 | | 4.95 | 4.95 | 5/12/2009 | semiannual | 63 |
| Oct-09 | 5 | 20 | 5 | | 5 | 5 | 10/29/2009 | semiannual | 64 |
| May-10 | 5 | 20 | 5 | | 5 | 5 | 5/20/2010 | semiannual | 65 |
| Oct-10 | 5 | 20 | 5 | | 5 | 5 | 10/18/2010 | semiannual | 66 |
| Jun-11 | 2 | 20 | 2 | | 3.5 | 3.5 | 6/2/2011 | semiannual | 67 |
| Oct-11 | 5 | 20 | 5 | | 3.5 | 3.5 | 10/12/2011 | semiannual | 68 |
| May-12 | 2 | 20 | 2 | | 3.5 | 3.5 | 5/18/2012 | semiannual | 69 |
| Oct-12 | 2 | 20 | 2 | | 2 | 2 | 10/11/2012 | semiannual | 70 |
| May-13 | 2 | 20 | 2 | | 2 | 2 | 5/17/2013 | semiannual | 71 |
| Oct-13 | 2 | 20 | 2 | | 2 | 2 | 10/11/2013 | semiannual | 72 |
| May-14 | 10 | 20 | 10 | | 6 | 6 | 5/5/2014 | semiannual | 73 |
| Oct-14 | 2 | 20 | 2 | | 6 | 6 | 10/6/2014 | semiannual | 74 |

MOVING AVERAGE TREND TEST

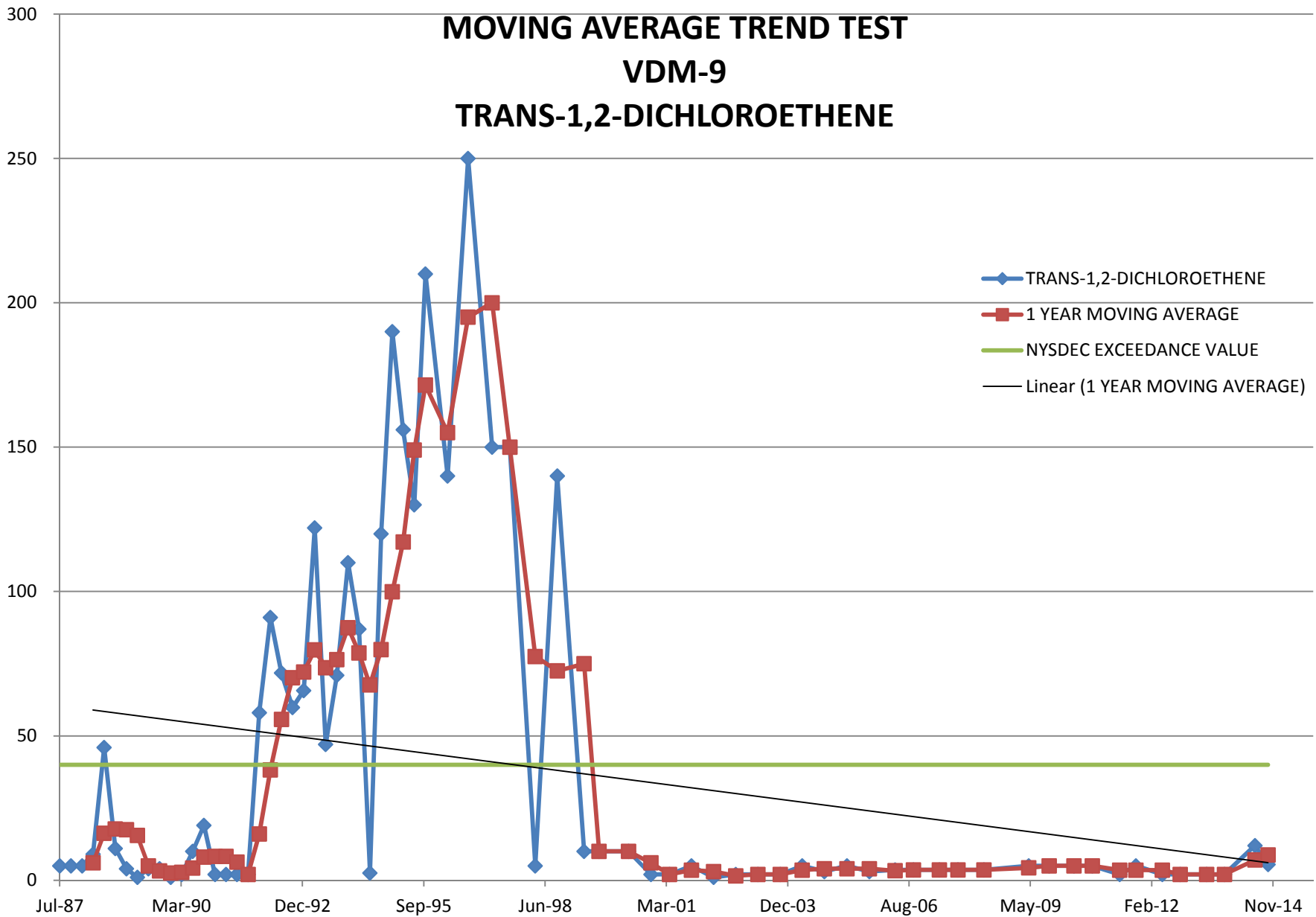
VDM-14 TOLUENE



WELL VDM - 14 : TOLUENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|--------------------|---------------|--------------|
| Oct-85 | - | - | - | TOTAL STE 30.60254 | - | 1 |
| Jan-86 | | 20 | 5 | TOTAL Sx 3.855557 | | 2 |
| Apr-86 | | 20 | 5 | TOTAL MEA 12.33125 | | 3 |
| Jul-86 | | 20 | 5 | TOTAL N 64 | | 4 |
| Oct-86 | | 20 | 5 | TOTAL df 63 | | 5 |
| Jan-87 | | 20 | 5 | | | 6 |
| Apr-87 | | 20 | 5 | | | 7 |
| Jul-87 | | 20 | 5 | | | 8 |
| Oct-87 | 1 | 20 | 5 | | | 9 |
| Jan-88 | 1 | 20 | 5 | | | 10 |
| Apr-88 | 1 | 20 | 5 | | | 11 |
| Jul-88 | 1 | 20 | 5 | | 1.00 | 12 |
| Oct-88 | 1 | 20 | 5 | | 1.00 | 13 |
| Jan-89 | 2 | 20 | 5 | | 1.25 | 14 |
| Apr-89 | 1 | 20 | 5 | | 1.25 | 15 |
| Jul-89 | 2 | 20 | 5 | | 1.50 | 16 |
| Oct-89 | 1 | 20 | 5 | | 1.50 | 17 |
| Jan-90 | 2 | 20 | 5 | | 1.50 | 18 |
| Apr-90 | 2 | 20 | 5 | | 1.75 | 19 |
| Jul-90 | 1 | 20 | 5 | | 1.50 | 20 |
| Oct-90 | 1 | 20 | 5 | | 1.50 | 21 |
| Jan-91 | 1.25 | 20 | 5 | | 1.31 | 22 |
| Apr-91 | 1.25 | 20 | 5 | | 1.13 | 23 |
| Jul-91 | 1.5 | 20 | 5 | | 1.25 | 24 |
| Oct-91 | 2 | 20 | 5 | | 1.50 | 25 |
| Jan-92 | 1.5 | 20 | 5 | | 1.56 | 26 |
| Apr-92 | 2 | 20 | 5 | | 1.75 | 27 |
| Jul-92 | 2 | 20 | 5 | | 1.88 | 28 |
| Oct-92 | 2 | 20 | 5 | | 1.88 | 29 |
| Jan-93 | 2 | 20 | 5 | | 2.00 | 30 |
| Apr-93 | 2 | 20 | 5 | | 2.00 | 31 |
| Jul-93 | 210 | 20 | 5 | | 54.00 | 32 |
| Oct-93 | 120 | 20 | 5 | | 83.50 | 33 |
| Jan-94 | 2.5 | 20 | 5 | | 83.63 | 34 |
| Apr-94 | 2 | 20 | 5 | | 83.63 | 35 |
| Jul-94 | 2 | 20 | 5 | | 31.63 | 36 |
| Oct-94 | 2 | 20 | 5 | | 2.13 | 37 |
| Jan-95 | 2 | 20 | 5 | | 2.00 | 38 |
| Apr-95 | 2 | 20 | 5 | | 2.00 | 39 |
| Jul-95 | 2 | 20 | 5 | | 2.00 | 40 |
| Oct-95 | 4 | 20 | 4 | | 2.50 | 41 |
| Apr-96 | 10 | 20 | 10 | | 6.5 | 42 |
| Sep-96 | 10 | 20 | 10 | | 10 | 43 |
| Apr-97 | 10 | 20 | 10 | | 10 | 44 |
| Aug-97 | 20 | 20 | 100 | | 15 | 45 |
| Mar-98 | 5 | 20 | 5 | | 12.5 | 46 |
| Sep-98 | 1.3 | 20 | 5 | | 3.15 | 47 |
| May-99 | 10 | 20 | 10 | | 5.65 | 48 |
| Oct-99 | 10 | 20 | 10 | | 10 | 49 |
| Nov-00 | 5 | 20 | 5 | | 7.5 | 50 |
| Apr-01 | 5 | 20 | 5 | | 5 | 51 |
| Oct-01 | 5 | 20 | 5 | | 5 | 52 |
| Apr-02 | 5 | 20 | 5 | | 5 | 53 |
| Oct-02 | 5 | 20 | 25 | ** | 5 | 54 |
| Apr-03 | 10 | 20 | 10 | | 7.5 | 55 |
| Oct-03 | 1 | 20 | 5 | | 5.5 | 56 |
| Apr-04 | 10 | 20 | 10 | | 5.5 | 57 |
| Oct-04 | 10 | 20 | 10 | | 10 | 58 |
| Apr-05 | 10 | 20 | 10 | | 10 | 59 |
| Oct-05 | 2 | 20 | 10 | | 6 | 60 |
| May-06 | 4.9 | 20 | 10 | | 3.45 | 61 |
| Oct-06 | 49 | 20 | 10 | | 26.95 | 62 |
| May-07 | 26.1 | 20 | 10 | | 37.55 | 63 |
| Oct-07 | 20 | 20 | 4.9 | | 23.05 | 64 |
| Oct-08 | 4.9 | 20 | 4.9 | | 12.45 | 65 |
| May-09 | 25 | 20 | 25 | | 14.95 | 66 |
| Oct-09 | 50 | 20 | 25 | | 37.5 | 67 |
| May-10 | 5 | 20 | 5 | | 27.5 | 68 |
| Oct-10 | 5 | 20 | 5 | | 5 | 69 |
| Jun-11 | 20 | 20 | 20 | | 12.5 | 70 |
| Oct-11 | 50 | 20 | 50 | | 35 | 71 |
| May-12 | 2 | 20 | 2 | | 26 | 72 |
| Oct-12 | 2 | 20 | 2 | | 2 | 73 |
| May-13 | 2 | 20 | 2 | | 2 | 74 |
| Oct-13 | 2 | 20 | 2 | | 2 | 75 |
| May-14 | 10 | 20 | 10 | | 6 | 76 |
| Oct-14 | 2 | 20 | 2 | | 6 | 77 |

MOVING AVERAGE TREND TEST VDM-9 TRANS-1,2-DICHLOROETHENE

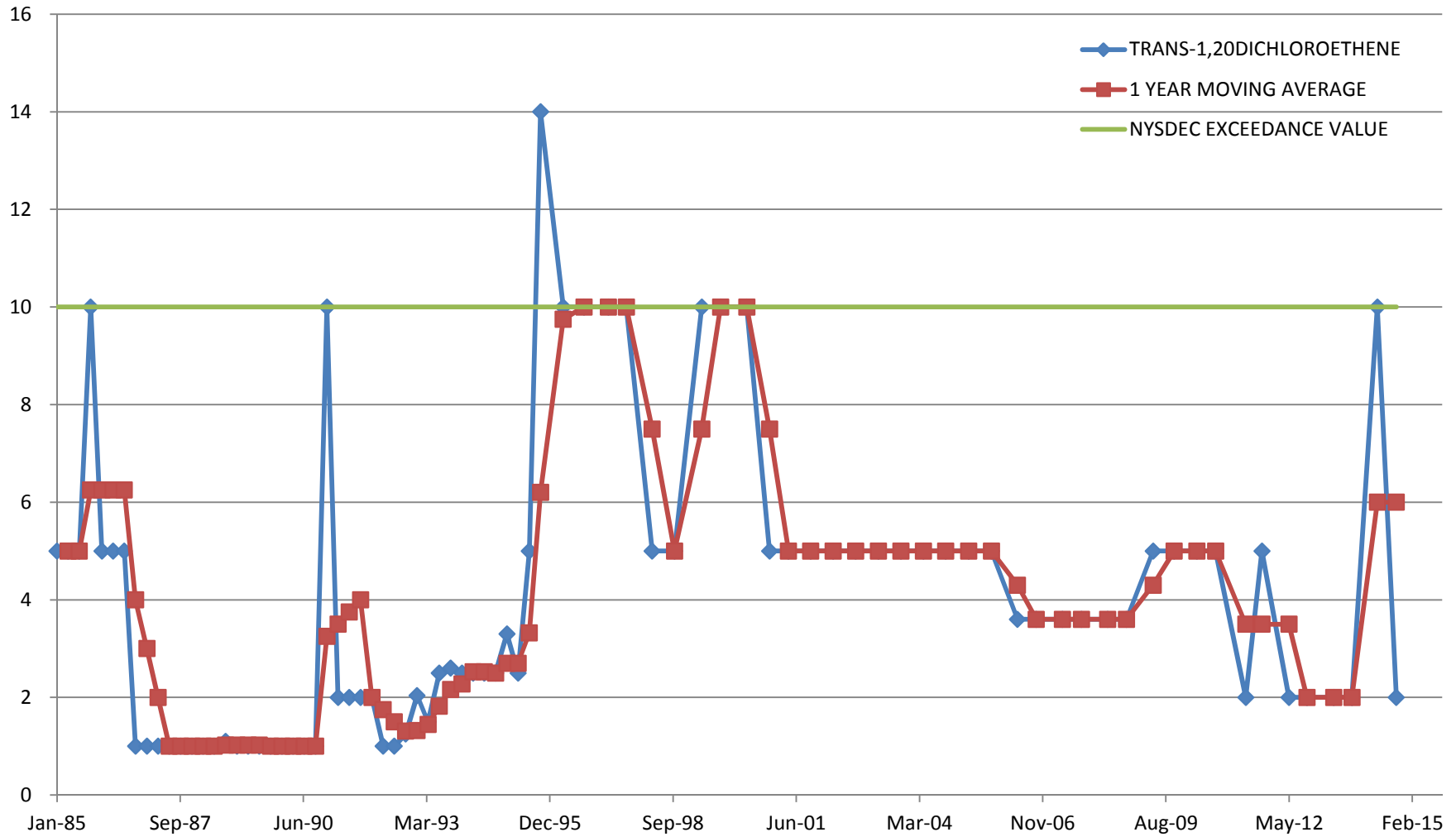


WELL VDM - 9 : TRANS-1,2-DICHLOROETHENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | | |
|-------------------|-------------|------------------------|-----------------|---------------------|---------------|--------------|---------------------|----|
| Jan-87 | | 40 | 5 | TOTAL STD 61.15555 | | 1 | | |
| Apr-87 | | 40 | 5 | TOTAL Sx 7.644444 | | 2 | | |
| Jul-87 | 5 | 40 | 5 | TOTAL MEAN 41.04308 | | 3 | | |
| Oct-87 | 5 | 40 | 5 | TOTAL N 65 | | 4 | | |
| Jan-88 | 5 | 40 | 5 | TOTAL df 64 | | 5 | | |
| Apr-88 | 9 | 40 | 5 | | 6.00 | 6 | | |
| Jul-88 | 46 | 40 | 5 | | 16.25 | 7 | | |
| Oct-88 | 11 | 40 | 5 | | 17.75 | 8 | | |
| Jan-89 | 4 | 40 | 5 | | 17.50 | 9 | | |
| Apr-89 | 1 | 40 | 5 | | 15.50 | 10 | | |
| Jul-89 | 4 | 40 | 5 | | 5.00 | 11 | | |
| Oct-89 | 4 | 40 | 5 | | 3.25 | 12 | | |
| Jan-90 | 1 | 40 | 5 | | 2.50 | 13 | | |
| Apr-90 | 2 | 40 | 5 | | 2.75 | 14 | | |
| Jul-90 | 10 | 40 | 5 | | 4.25 | 15 | | |
| Oct-90 | 19 | 40 | 5 | | 8.00 | 16 | | |
| Jan-91 | 2 | 40 | 5 | | 8.25 | 17 | | |
| Apr-91 | 2 | 40 | 5 | | 8.25 | 18 | | |
| Jul-91 | 2 | 40 | 5 | | 6.25 | 19 | | |
| Oct-91 | 2 | 40 | 5 | | 2.00 | 20 | | |
| Jan-92 | 58 | 40 | 5 | | 16.00 | 21 | | |
| Apr-92 | 91 | 40 | 5 | | 38.25 | 22 | | |
| Jul-92 | 71.8 | 40 | 5 | | 55.70 | 23 | | |
| Oct-92 | 59.8 | 40 | 5 | | 70.15 | 24 | | |
| Jan-93 | 65.7 | 40 | 5 | | 72.08 | 25 | | |
| Apr-93 | 122 | 40 | 5 | | 79.83 | 26 | | |
| Jul-93 | 47 | 40 | 5 | | 73.63 | 27 | | |
| Oct-93 | 71 | 40 | 5 | | 76.43 | 28 | | |
| Jan-94 | 110 | 40 | 5 | | 87.50 | 29 | | |
| Apr-94 | 87 | 40 | 5 | | 78.75 | 30 | | |
| Jul-94 | 3 | 40 | 5 | | 67.63 | 31 | | |
| Oct-94 | 120 | 40 | 5 | | 79.88 | 32 | | |
| Jan-95 | 190 | 40 | 5 | | 99.88 | 33 | | |
| Apr-95 | 156 | 40 | 5 | | 117.13 | 34 | | |
| Jul-95 | 130 | 40 | 5 | | 149.00 | 35 | | |
| Oct-95 | 210 | 40 | 5 | | 171.50 | 36 | | |
| Apr-96 | 140 | 40 | 5 | | 155 | 155 | 37 | |
| Sep-96 | 250 | 40 | 10 | | 195 | 195 | 09/17/96 semiannual | 38 |
| Apr-97 | 150 | 40 | 10 | | 200 | 200 | 04/03/97 semiannual | 39 |
| Aug-97 | 150 | 40 | 10 | | 150 | 150 | 08/27/97 semiannual | 40 |
| Mar-98 | 5 | 40 | 5 | | 77.5 | 77.5 | 03/24/98 semiannual | 41 |
| Sep-98 | 140 | 40 | 5 | | 72.5 | 72.5 | 09/22/98 semiannual | 42 |
| May-99 | 10 | 40 | 10 | | 75 | 75 | 05/11/99 semiannual | 43 |
| Sep-99 | 10 | 40 | 10 | | 10 | 10 | 09/29/99 semiannual | 44 |
| May-00 | 10 | 40 | 10 | | 10 | 10 | 05/16/00 semiannual | 45 |
| Nov-00 | 2 | 40 | 5 | | 6 | 6 | 11/28/00 semiannual | 46 |
| Apr-01 | 2 | 40 | 5 | | 2 | 2 | 04/04/01 semiannual | 47 |
| Oct-01 | 5 | 40 | 5 | | 3.5 | 3.5 | 10/18/01 semiannual | 48 |
| Apr-02 | 1 | 40 | 5 | | 3 | 3 | 04/18/02 semiannual | 49 |
| Oct-02 | 2 | 40 | 5 | | 1.5 | 1.5 | 10/03/02 semiannual | 50 |
| Apr-03 | 2 | 40 | 5 | | 2 | 2 | 04/25/03 semiannual | 51 |
| Oct-03 | 2 | 40 | 5 | | 2 | 2 | 10/03/03 semiannual | 52 |
| Apr-04 | 5 | 40 | 5 | | 3.5 | 3.5 | 04/01/04 semiannual | 53 |
| Oct-04 | 3 | 40 | 5 | | 4 | 4 | 10/19/04 semiannual | 54 |
| Apr-05 | 5 | 40 | 5 | | 4 | 4 | 04/22/05 semiannual | 55 |
| Oct-05 | 3 | 40 | 5 | | 4 | 4 | 10/05/07 semiannual | 56 |
| May-06 | 3.6 | 40 | 5 | | 3.3 | 3.3 | 05/11/06 semiannual | 57 |
| Oct-06 | 3.6 | 40 | 5 | | 3.6 | 3.6 | 10/18/06 semiannual | 58 |
| May-07 | 3.6 | 40 | 5 | | 3.6 | 3.6 | 05/22/07 semiannual | 59 |
| Oct-07 | 3.6 | 40 | 5 | | 3.6 | 3.6 | 10/25/07 semiannual | 60 |
| May-08 | 3.6 | 40 | 5 | | 3.6 | 3.6 | 05/13/08 semiannual | 61 |
| May-09 | 5 | 40 | 5 | | 4.3 | 4.3 | 05/12/09 semiannual | 63 |
| Oct-09 | 5 | 40 | 5 | | 5 | 5 | 10/29/09 semiannual | 64 |
| May-10 | 5 | 40 | 5 | | 5 | 5 | 05/20/10 semiannual | 65 |
| Oct-10 | 5 | 40 | 5 | | 5 | 5 | 10/18/10 semiannual | 66 |
| Jun-11 | 2 | 40 | 2 | | 3.5 | 3.5 | 06/02/11 semiannual | 67 |
| Oct-11 | 5 | 40 | 5 | | 3.5 | 3.5 | 10/12/11 semiannual | 68 |
| May-12 | 2 | 40 | 2 | | 3.5 | 3.5 | 05/18/12 semiannual | 69 |
| Oct-12 | 2 | 40 | 2 | | 2 | 2 | 10/11/12 semiannual | 70 |
| May-13 | 2 | 40 | 2 | | 2 | 2 | 05/17/13 semiannual | 71 |
| Oct-13 | 2 | 40 | 2 | | 2 | 2 | 10/11/13 semiannual | 72 |
| Jun-14 | 12 | 40 | 2 | | 7 | 7 | 05/05/14 semiannual | 73 |
| Oct-14 | 5.5 | 40 | 2 | | 8.75 | 8.75 | 10/06/14 semiannual | 74 |

WELL VDM9 OMITTED FROM REPORT

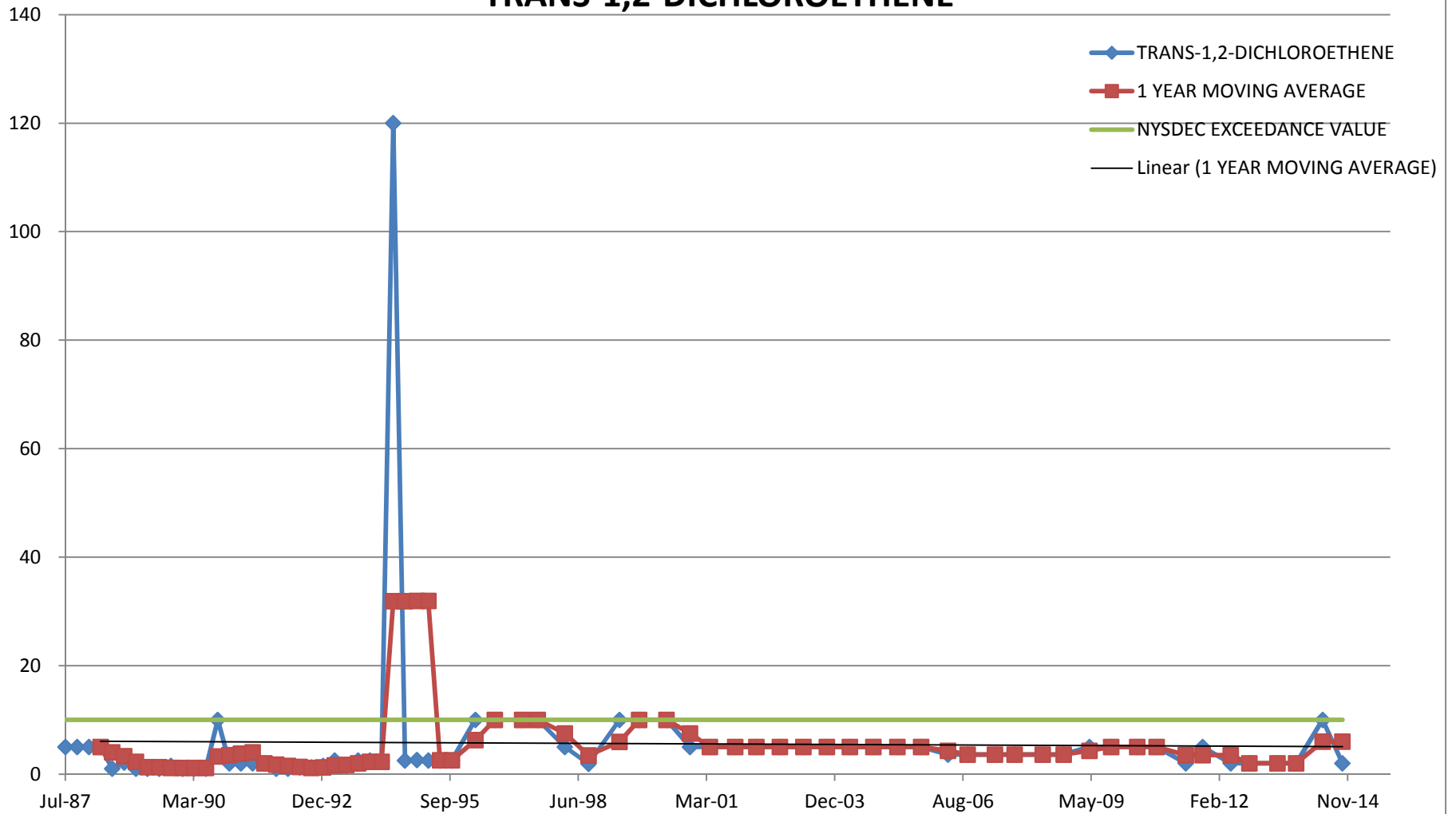
MOVING AVERAGE TREND TEST VDM-10 TRANS-1,2-DICHLOROETHENE



WELL VDM - 10 : TRANS-1,2-DICHLOROETHENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|----------------|----------------------|---------------|---------------------------|
| Jul-84 | | 10 | 5 | TOTAL STD 2.977876 | | 1 |
| Oct-84 | | 10 | 5 | TOTAL Sx 0.3438555 | | 2 |
| Jan-85 | 5 | 10 | 5 | TOTAL MEAN 3.9681707 | | 3 |
| Apr-85 | 5 | 10 | 5 | TOTAL N 76 | 5.00 | 4 |
| Jul-85 | 5 | 10 | 5 | TOTAL df 75 | 5.00 | 5 |
| Oct-85 | 10 | 10 | 5 | | 6.25 | 6 |
| Jan-86 | 5 | 10 | 5 | | 6.25 | 7 |
| Apr-86 | 5 | 10 | 5 | | 6.25 | 8 |
| Jul-86 | 5 | 10 | 5 | | 6.25 | 9 |
| Oct-86 | 1 | 10 | 5 | | 4.00 | 10 |
| Jan-87 | 1 | 10 | 5 | | 3.00 | 11 |
| Apr-87 | 1 | 10 | 5 | | 2.00 | 12 |
| Jul-87 | 1 | 10 | 5 | | 1.00 | 13 |
| Oct-87 | 1 | 10 | 5 | | 1.00 | 14 |
| Jan-88 | 1 | 10 | 5 | | 1.00 | 15 |
| Apr-88 | 1 | 10 | 5 | | 1.00 | 16 |
| Jul-88 | 1 | 10 | 5 | | 1.00 | 17 |
| Oct-88 | 1.1 | 10 | 5 | | 1.03 | 18 |
| Jan-89 | 1 | 10 | 5 | | 1.03 | 19 |
| Apr-89 | 1 | 10 | 5 | | 1.03 | 20 |
| Jul-89 | 1 | 10 | 5 | | 1.03 | 21 |
| Oct-89 | 1 | 10 | 5 | | 1.00 | 22 |
| Jan-90 | 1 | 10 | 5 | | 1.00 | 23 |
| Apr-90 | 1 | 10 | 5 | | 1.00 | 24 |
| Jul-90 | 1 | 10 | 5 | | 1.00 | 25 |
| Oct-90 | 1 | 10 | 5 | | 1.00 | 26 |
| Jan-91 | 10 | 10 | 5 | | 3.25 | 27 |
| Apr-91 | 2 | 10 | 5 | | 3.50 | 28 |
| Jul-91 | 2 | 10 | 5 | | 3.75 | 29 |
| Oct-91 | 2 | 10 | 5 | | 4.00 | 30 |
| Jan-92 | 2 | 10 | 5 | | 2.00 | 31 |
| Apr-92 | 1 | 10 | 5 | | 1.75 | 32 |
| Jul-92 | 1 | 10 | 5 | | 1.50 | 33 |
| Oct-92 | 1.25 | 10 | 5 | | 1.31 | 34 |
| Jan-93 | 2.04 | 10 | 5 | | 1.32 | 35 |
| Apr-93 | 1.5 | 10 | 5 | | 1.45 | 36 |
| Jul-93 | 2.5 | 10 | 5 | | 1.82 | 37 |
| Oct-93 | 2.6 | 10 | 5 | | 2.16 | 38 |
| Jan-94 | 2.5 | 10 | 5 | | 2.28 | 39 |
| Apr-94 | 2.5 | 10 | 5 | | 2.53 | 40 |
| Jul-94 | 2.5 | 10 | 5 | | 2.53 | 41 |
| Oct-94 | 2.5 | 10 | 5 | | 2.50 | 42 |
| Jan-95 | 3.3 | 10 | 5 | | 2.70 | 43 |
| Apr-95 | 2.5 | 10 | 5 | | 2.70 | 44 |
| Jul-95 | 5 | 10 | 5 | | 3.33 | 45 |
| Oct-95 | 14 | 10 | 1 | | 6.20 | 46 |
| Apr-96 | 10 | 10 | 10 | | 9.75 | 47 |
| Sep-96 | 10 | 10 | 10 | | 10 | 10 09/17/96 semiannual 48 |
| Apr-97 | 10 | 10 | 10 | | 10 | 10 04/03/97 semiannual 49 |
| Aug-97 | 10 | 10 | 10 | | 10 | 10 08/27/97 semiannual 50 |
| Mar-98 | 5 | 10 | 5 | 7.5 | 7.5 | 03/24/98 semiannual 51 |
| Sep-98 | 5 | 10 | 5 | 5 | 5 | 09/22/98 semiannual 52 |
| May-99 | 10 | 10 | 10 | 7.5 | 7.5 | 05/11/99 semiannual 53 |
| Oct-99 | 10 | 10 | 10 | 10 | 10 | 10/05/99 semiannual 54 |
| May-00 | 10 | 10 | 10 | 10 | 10 | 05/16/00 semiannual 55 |
| Nov-00 | 5 | 10 | 5 | 7.5 | 7.5 | 11/28/00 semiannual 56 |
| Apr-01 | 5 | 10 | 5 | 5 | 5 | 04/04/01 semiannual 57 |
| Oct-01 | 5 | 10 | 5 | 5 | 5 | 10/18/01 semiannual 58 |
| Apr-02 | 5 | 10 | 5 | 5 | 5 | 04/18/02 semiannual 59 |
| Oct-02 | 5 | 10 | 5 | 5 | 5 | 10/03/02 semiannual 60 |
| Apr-03 | 5 | 10 | 5 | 5 | 5 | 04/25/03 semiannual 61 |
| Oct-03 | 5 | 10 | 5 | 5 | 5 | 10/03/03 semiannual 62 |
| Apr-04 | 5 | 10 | 5 | 5 | 5 | 04/01/04 semiannual 63 |
| Oct-04 | 5 | 10 | 5 | 5 | 5 | 10/19/04 semiannual 64 |
| Apr-05 | 5 | 10 | 5 | 5 | 5 | 04/22/05 semiannual 65 |
| Oct-05 | 5 | 10 | 5 | 5 | 5 | 10/07/05 semiannual 66 |
| May-06 | 3.6 | 10 | 5 | 4.3 | 4.3 | 05/11/06 semiannual 67 |
| Oct-06 | 3.6 | 10 | 5 | 3.6 | 3.6 | 10/18/06 semiannual 68 |
| May-07 | 3.6 | 10 | 5 | 3.6 | 3.6 | 05/22/07 semiannual 69 |
| Oct-07 | 3.6 | 10 | 5 | 3.6 | 3.6 | 10/25/07 semiannual 70 |
| May-08 | 3.6 | 10 | 5 | 3.6 | 3.6 | 05/13/08 semiannual 71 |
| Oct-08 | 3.6 | 10 | 5 | 3.6 | 3.6 | 10/23/08 semiannual 72 |
| May-09 | 5 | 10 | 5 | 4.3 | 4.3 | 05/12/09 semiannual 73 |
| Oct-09 | 5 | 10 | 5 | 5 | 5 | 10/29/09 semiannual 74 |
| May-10 | 5 | 10 | 5 | 5 | 5 | 05/01/10 semiannual 75 |
| Oct-10 | 5 | 10 | 5 | 5 | 5 | 10/01/10 semiannual 76 |
| Jun-11 | 2 | 10 | 2 | 3.5 | 3.5 | 06/02/11 semiannual 77 |
| Oct-11 | 5 | 10 | 5 | 3.5 | 3.5 | 10/12/11 semiannual 78 |
| May-12 | 2 | 10 | 2 | 3.5 | 3.5 | 05/18/12 semiannual 79 |
| Oct-12 | 2 | 10 | 2 | 2 | 2 | 10/11/12 semiannual 80 |
| May-13 | 2 | 10 | 2 | 2 | 2 | 05/17/13 semiannual 81 |
| Oct-13 | 2 | 10 | 2 | 2 | 2 | 10/11/13 semiannual 82 |
| May-14 | 10 | 10 | 10 | 6 | 6 | 05/05/14 semiannual 83 |
| Oct-14 | 2 | 10 | 2 | 6 | 6 | 10/06/14 semiannual 84 |

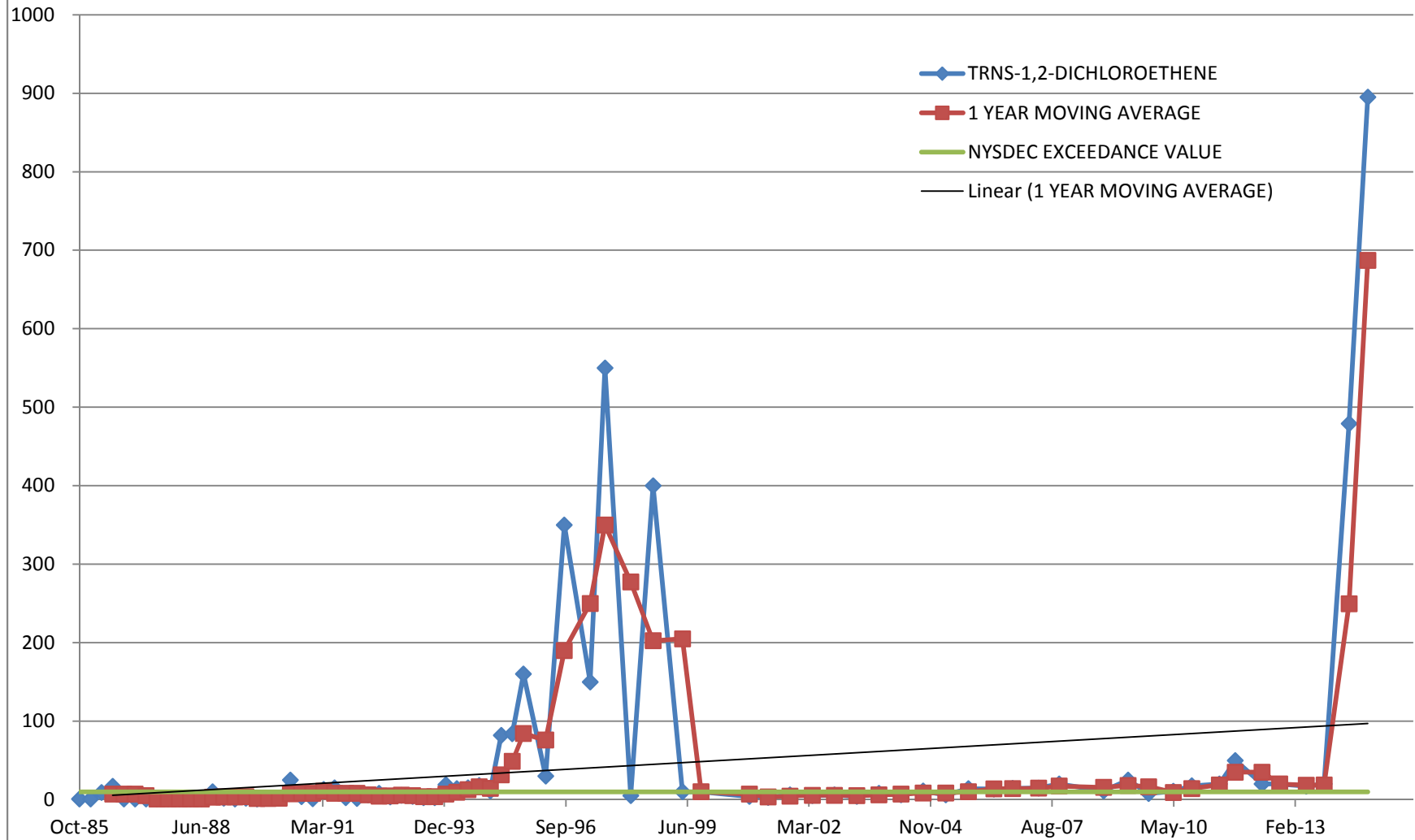
MOVING AVERAGE TREND TEST VDM-11 TRANS-1,2-DICHLOROETHENE



WELL VDM - 11 : TRANS-1,2-DICHLOROETHENE

| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | | | |
|--------------------------|-------------|------------------------|-----------------|-------------------|---------------|--------------|------------|------------|----|
| - | - | - | - | - | - | - | | | |
| Jan-87 | | 10 | 5 | TOTAL STD 14.3212 | | 1 | | | |
| Apr-87 | | 10 | 5 | TOTAL Sx 1.7628 | | 2 | | | |
| Jul-87 | 5 | 10 | 5 | TOTAL MEAN 5.6896 | | 3 | | | |
| Oct-87 | 5 | 10 | 5 | TOTAL N 67 | | 4 | | | |
| Jan-88 | 5 | 10 | 5 | TOTAL df 66 | | 5 | | | |
| Apr-88 | 5 | 10 | 5 | | 5.00 | 6 | | | |
| Jul-88 | 1 | 10 | 5 | | 4.00 | 7 | | | |
| Oct-88 | 2.1 | 10 | 5 | | 3.28 | 8 | | | |
| Jan-89 | 1 | 10 | 5 | | 2.28 | 9 | | | |
| Apr-89 | 1 | 10 | 5 | | 1.28 | 10 | | | |
| Jul-89 | 1 | 10 | 5 | | 1.28 | 11 | | | |
| Oct-89 | 1.5 | 10 | 5 | | 1.13 | 12 | | | |
| Jan-90 | 1 | 10 | 5 | | 1.13 | 13 | | | |
| Apr-90 | 1 | 10 | 5 | | 1.13 | 14 | | | |
| Jul-90 | 1 | 10 | 5 | | 1.13 | 15 | | | |
| Oct-90 | 10 | 10 | 5 | | 3.25 | 16 | | | |
| Jan-91 | 2 | 10 | 5 | | 3.50 | 17 | | | |
| Apr-91 | 2 | 10 | 5 | | 3.75 | 18 | | | |
| Jul-91 | 2 | 10 | 5 | | 4.00 | 19 | | | |
| Oct-91 | 2 | 10 | 5 | | 2.00 | 20 | | | |
| Jan-92 | 1 | 10 | 5 | | 1.75 | 21 | | | |
| Apr-92 | 1 | 10 | 5 | | 1.50 | 22 | | | |
| Jul-92 | 1.25 | 10 | 5 | | 1.31 | 23 | | | |
| Oct-92 | 1.25 | 10 | 5 | | 1.13 | 24 | | | |
| Jan-93 | 1.5 | 10 | 5 | | 1.25 | 25 | | | |
| Apr-93 | 2.5 | 10 | 5 | | 1.63 | 26 | | | |
| Jul-93 | 1.5 | 10 | 5 | | 1.69 | 27 | | | |
| Oct-93 | 2.5 | 10 | 5 | | 2.00 | 28 | | | |
| Jan-94 | 2.5 | 10 | 5 | | 2.25 | 29 | | | |
| Apr-94 | 2.5 | 10 | 5 | | 2.25 | 30 | | | |
| Jul-94 | 120 | 10 | 5 | | 31.88 | 31 | | | |
| Oct-94 | 2.5 | 10 | 5 | | 31.88 | 32 | | | |
| Jan-95 | 2.6 | 10 | 5 | | 31.90 | 33 | | | |
| Apr-95 | 2.5 | 10 | 5 | | 31.90 | 34 | | | |
| Jul-95 | 2.5 | 10 | 5 | | 2.53 | 35 | | | |
| Oct-95 | 2.5 | 10 | 2.5 | | 2.53 | 36 | | | |
| Apr-96 | 10 | 10 | 10 | | 6.25 | 37 | | | |
| Sep-96 | 10 | 10 | 10 | | 10 | 10 | 9/17/1996 | semiannual | 38 |
| Apr-97 | 10 | 10 | 10 | | 10 | 10 | 4/3/1997 | semiannual | 39 |
| Aug-97 | 10 | 10 | 10 | | 10 | 10 | 8/27/1997 | semiannual | 40 |
| Mar-98 | 5 | 10 | 5 | | 7.5 | 7.5 | 3/24/1998 | semiannual | 41 |
| Sep-98 | 1.9 | 10 | 5 | | 3.45 | 3.45 | 9/22/1998 | semiannual | 42 |
| May-99 | 10 | 10 | 10 | | 5.95 | 5.95 | 5/11/1999 | semiannual | 43 |
| Oct-99 | 10 | 10 | 10 | | 10 | 10 | 10/5/1999 | semiannual | 44 |
| May-00 | 10 | 10 | 10 | | 10 | 10 | 5/16/2000 | semiannual | 45 |
| Nov-00 | 5 | 10 | 5 | | 7.5 | 7.5 | 11/28/2000 | semiannual | 46 |
| Apr-01 | 5 | 10 | 5 | | 5 | 5 | 4/4/2001 | semiannual | 47 |
| Oct-01 | 5 | 10 | 5 | | 5 | 5 | 10/18/2001 | semiannual | 48 |
| Apr-02 | 5 | 10 | 5 | | 5 | 5 | 4/18/2002 | semiannual | 49 |
| Oct-02 | 5 | 10 | 5 | | 5 | 5 | 10/3/2002 | semiannual | 50 |
| Apr-03 | 5 | 10 | 5 | | 5 | 5 | 4/25/2003 | semiannual | 51 |
| Oct-03 | 5 | 10 | 5 | | 5 | 5 | 10/3/2003 | semiannual | 52 |
| Apr-04 | 5 | 10 | 5 | | 5 | 5 | 4/1/2004 | semiannual | 53 |
| Oct-04 | 5 | 10 | 5 | | 5 | 5 | 10/19/2004 | semiannual | 54 |
| Apr-05 | 5 | 10 | 5 | | 5 | 5 | 4/22/2005 | semiannual | 55 |
| Oct-05 | 5 | 10 | 5 | | 5 | 5 | 10/7/2005 | semiannual | 56 |
| May-06 | 3.6 | 10 | 5 | | 4.3 | 4.3 | 5/11/2006 | semiannual | 57 |
| Oct-06 | 3.6 | 10 | 5 | | 3.6 | 3.6 | 10/18/2006 | semiannual | 58 |
| May-07 | 3.6 | 10 | 5 | | 3.6 | 3.6 | 5/22/2007 | semiannual | 59 |
| Oct-07 | 3.6 | 10 | 5 | | 3.6 | 3.6 | 10/25/2007 | semiannual | 60 |
| May-08 | 3.6 | 10 | 5 | | 3.6 | 3.6 | 5/13/2008 | semiannual | 61 |
| Oct-08 | 3.6 | 10 | 5 | | 3.6 | 3.6 | 10/23/2008 | semiannual | 62 |
| May-09 | 5 | 10 | 5 | | 4.3 | 4.3 | 5/12/2009 | semiannual | 63 |
| Oct-09 | 5 | 10 | 5 | | 5 | 5 | 10/29/2009 | semiannual | 64 |
| May-10 | 5 | 10 | 5 | | 5 | 5 | 5/20/2010 | semiannual | 65 |
| Oct-10 | 5 | 10 | 5 | | 5 | 5 | 10/18/2010 | semiannual | 66 |
| Jun-11 | 2 | 10 | 2 | | 3.5 | 3.5 | 6/2/2011 | semiannual | 67 |
| Oct-11 | 5 | 10 | 5 | | 3.5 | 3.5 | 10/12/2011 | semiannual | 68 |
| May-12 | 2 | 10 | 2 | | 3.5 | 3.5 | 5/18/2012 | semiannual | 69 |
| Oct-12 | 2 | 10 | 2 | | 2 | 2 | 10/11/2012 | semiannual | 70 |
| May-13 | 2 | 10 | 2 | | 2 | 2 | 5/17/2013 | semiannual | 71 |
| Oct-13 | 2 | 10 | 2 | | 2 | 2 | 10/11/2013 | semiannual | 72 |
| May-14 | 10 | 10 | 10 | | 6 | 6 | 5/5/2014 | semiannual | 73 |
| Oct-14 | 2 | 10 | 2 | | 6 | 6 | 10/6/2014 | semiannual | 74 |

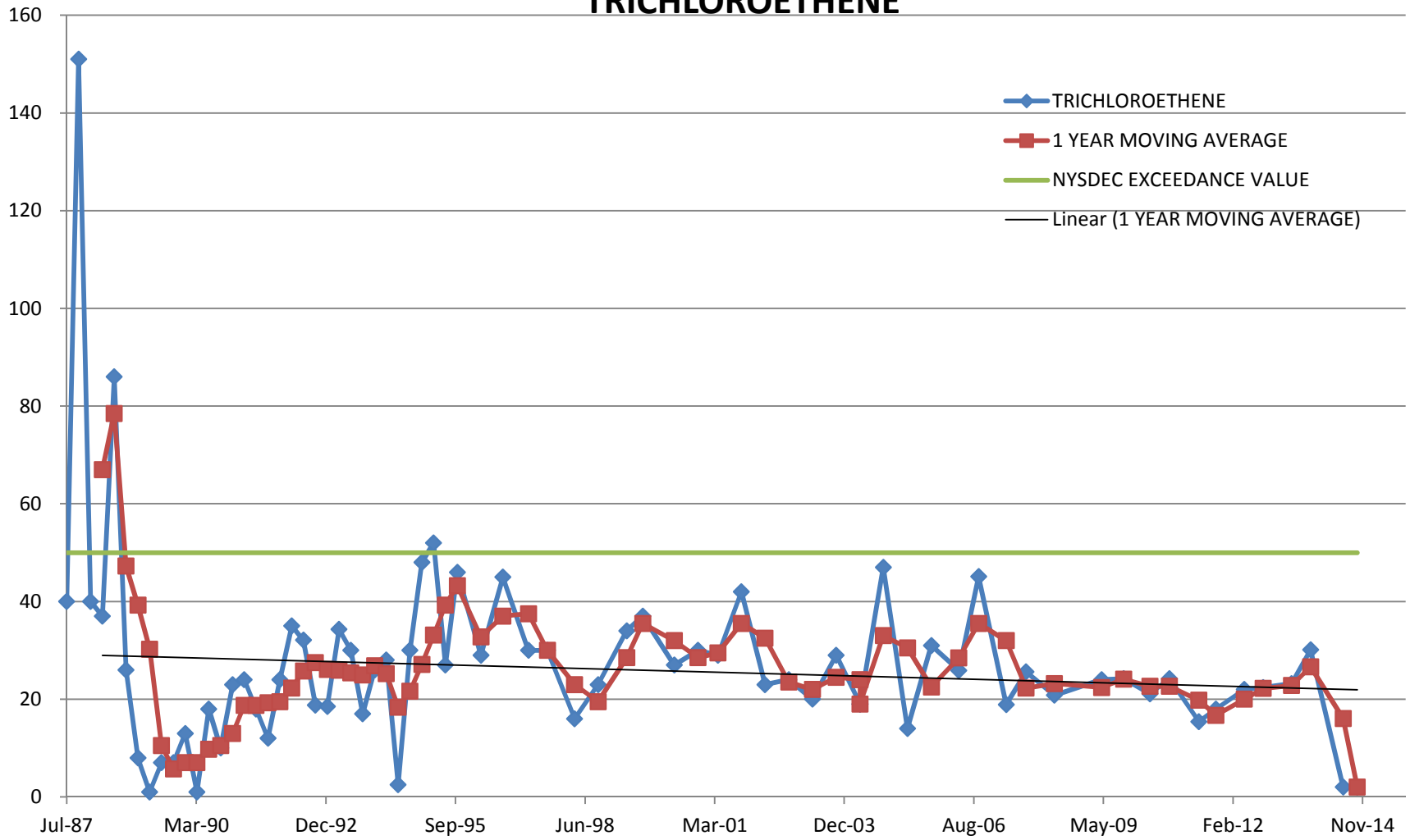
MOVING AVERAGE TREND TEST VDM-14 TRANS-1,2-DICHLOROETHENE



WELL VDM - 14 : TRANS-1,2-DICHLOROETHENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | |
|----------------|----------|------------------|--------------|--------------------|------------|------------------------------|----|
| ----- | - | - | - | - | - | - | |
| Oct-85 | 1 | 10 | 5 | TOTAL STE 89.74927 | | 1 | |
| Jan-86 | 1 | 10 | 5 | TOTAL Sx 10.65128 | | 2 | |
| Apr-86 | 9 | 10 | 5 | TOTAL MEA 32.73333 | | 3 | |
| Jul-86 | 17 | 10 | 5 | TOTAL N 72 | 7.00 | 4 | |
| Oct-86 | 1 | 10 | 5 | TOTAL df 71 | 7.00 | 5 | |
| Jan-87 | 1 | 10 | 5 | | 7.00 | 6 | |
| Apr-87 | 1 | 10 | 5 | | 5.00 | 7 | |
| Jul-87 | 1 | 10 | 5 | | 1.00 | 8 | |
| Oct-87 | 1 | 10 | 5 | | 1.00 | 9 | |
| Jan-88 | 1 | 10 | 5 | | 1.00 | 10 | |
| Apr-88 | 1 | 10 | 5 | | 1.00 | 11 | |
| Jul-88 | 1 | 10 | 5 | | 1.00 | 12 | |
| Oct-88 | 10 | 10 | 5 | | 3.25 | 13 | |
| Jan-89 | 2 | 10 | 5 | | 3.50 | 14 | |
| Apr-89 | 1 | 10 | 5 | | 3.50 | 15 | |
| Jul-89 | 2 | 10 | 5 | | 3.75 | 16 | |
| Oct-89 | 1 | 10 | 5 | | 1.50 | 17 | |
| Jan-90 | 2 | 10 | 5 | | 1.50 | 18 | |
| Apr-90 | 2 | 10 | 5 | | 1.75 | 19 | |
| Jul-90 | 25 | 10 | 5 | | 7.50 | 20 | |
| Oct-90 | 3.7 | 10 | 5 | | 8.18 | 21 | |
| Jan-91 | 1.25 | 10 | 5 | | 7.99 | 22 | |
| Apr-91 | 13.1 | 10 | 5 | | 10.76 | 23 | |
| Jul-91 | 15.1 | 10 | 5 | | 8.29 | 24 | |
| Oct-91 | 2.5 | 10 | 5 | | 7.99 | 25 | |
| Jan-92 | 1.5 | 10 | 5 | | 8.05 | 26 | |
| Apr-92 | 6 | 10 | 5 | | 6.28 | 27 | |
| Jul-92 | 8 | 10 | 5 | | 4.50 | 28 | |
| Oct-92 | 3.5 | 10 | 5 | | 4.75 | 29 | |
| Jan-93 | 5.4 | 10 | 5 | | 5.73 | 30 | |
| Apr-93 | 4.3 | 10 | 5 | | 5.30 | 31 | |
| Jul-93 | 2.5 | 10 | 5 | | 3.93 | 32 | |
| Oct-93 | 2.5 | 10 | 5 | | 3.68 | 33 | |
| Jan-94 | 19 | 10 | 5 | | 7.08 | 34 | |
| Apr-94 | 14 | 10 | 5 | | 9.50 | 35 | |
| Jul-94 | 15 | 10 | 5 | | 12.63 | 36 | |
| Oct-94 | 18 | 10 | 5 | | 16.50 | 37 | |
| Jan-95 | 11 | 10 | 5 | | 14.50 | 38 | |
| Apr-95 | 82 | 10 | 5 | | 31.50 | 39 | |
| Jul-95 | 84 | 10 | 5 | | 48.75 | 40 | |
| Oct-95 | 160 | 10 | 5 | | 84.25 | 41 | |
| Apr-96 | 30 | 10 | 5 | | 76 | 42 | |
| Sep-96 | 350 | 10 | 10 | | 190 | 9/17/1996 semiannual | 43 |
| Apr-97 | 150 | 10 | 10 | | 250 | 250 4/3/1997 semiannual | 44 |
| Aug-97 | 550 | 10 | 100 | | 350 | 350 8/27/1997 semiannual | 45 |
| Mar-98 | 5 | 10 | 5 | | 277.5 | 277.5 3/24/1998 semiannual | 46 |
| Sep-98 | 400 | 10 | 5 | | 202.5 | 202.5 9/22/1998 semiannual | 47 |
| May-99 | 10 | 10 | 10 | | 205 | 205 5/11/1999 semiannual | 48 |
| Oct-99 | 10 | 10 | 10 | | 10 | 10 10/5/1999 semiannual | 49 |
| Nov-00 | 4 | 10 | 5 | | 7 | 7 11/28/2000 semiannual | 50 |
| Apr-01 | 3 | 10 | 5 | | 3.5 | 3.5 4/4/2001 semiannual | 51 |
| Oct-01 | 6 | 10 | 5 | | 4.5 | 4.5 10/18/2001 semiannual | 52 |
| Apr-02 | 5 | 10 | 5 | | 5.5 | 5.5 4/18/2002 semiannual | 53 |
| Oct-02 | 6 | 10 | 25 | | 5.5 | 5.5 10/3/2002 semiannual | 54 |
| Apr-03 | 4 | 10 | 10 | | 5 | 5 4/25/2003 semiannual | 55 |
| Oct-03 | 8 | 10 | 5 | | 6 | 6 10/3/2003 semiannual | 56 |
| Apr-04 | 6 | 10 | 10 | | 7 | 7 4/1/2004 semiannual | 57 |
| Oct-04 | 11 | 10 | 10 | | 8.5 | 8.5 10/19/2004 semiannual | 58 |
| Apr-05 | 6 | 10 | 10 | | 8.5 | 8.5 4/22/2005 semiannual | 59 |
| Oct-05 | 14 | 10 | 10 | | 10 | 10 10/7/2005 semiannual | 60 |
| May-06 | 13.6 | 10 | 10 | | 13.8 | 13.8 5/11/2006 semiannual | 61 |
| Oct-06 | 14.4 | 10 | 10 | | 14 | 14 10/18/2006 semiannual | 62 |
| May-07 | 14.8 | 10 | 10 | | 14.6 | 14.6 5/22/2007 semiannual | 63 |
| Oct-07 | 20 | 10 | 10 | | 17.4 | 17.4 10/25/2007 semiannual | 64 |
| Oct-08 | 11.2 | 10 | 10 | | 15.6 | 15.6 10/23/2008 semiannual | 65 |
| May-09 | 25 | 10 | 25 | | 18.1 | 18.1 5/12/2009 semiannual | 66 |
| Oct-09 | 7.85 | 10 | 25 | | 16.425 | 16.425 10/29/2009 semiannual | 67 |
| May-10 | 10.7 | 10 | 25 | | 9.275 | 9.275 5/20/2010 semiannual | 68 |
| Oct-10 | 17.7 | 10 | 25 | | 14.2 | 14.2 10/18/2010 semiannual | 69 |
| Jun-11 | 20 | 10 | 20 | | 18.85 | 18.85 6/2/2011 semiannual | 70 |
| Oct-11 | 50 | 10 | 50 | | 35 | 35 10/12/2011 semiannual | 71 |
| May-12 | 20.2 | 10 | 2 | | 35.1 | 35.1 5/18/2012 semiannual | 72 |
| Oct-12 | 19.8 | 10 | 2 | | 20 | 20 10/11/2012 semiannual | 73 |
| May-13 | 17.2 | 10 | 2 | | 18.5 | 18.5 5/17/2013 semiannual | 74 |
| Oct-13 | 20 | 10 | 2 | | 18.6 | 18.6 10/11/2013 semiannual | 75 |
| May-14 | 479 | 10 | 10 | | 249.5 | 249.5 5/5/2014 semiannual | 76 |
| Oct-14 | 895 | 10 | 2 | | 687 | 687 10/6/2014 semiannual | 77 |

MOVING AVERAGE TREND TEST
VDM-9
TRICHLOROETHENE



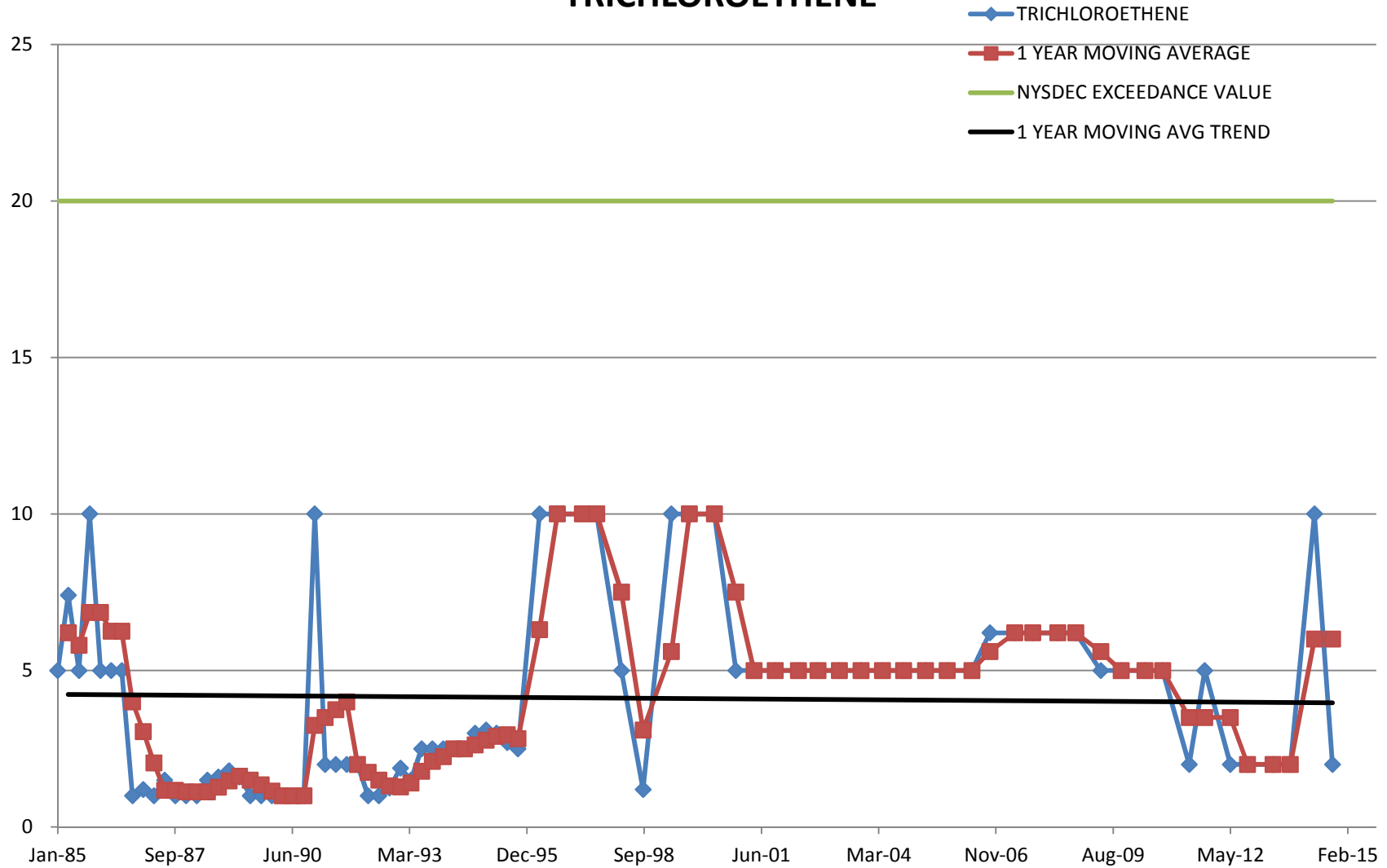
WELL VDM - 9 : TRICHLOROETHENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|---------------------|---------------|--------------|
| Jan-87 | | 50 | 5 | TOTAL STD 20.39044 | | 1 |
| Apr-87 | | 50 | 5 | TOTAL Sx 2.529123 | | 2 |
| Jul-87 | 40 | 50 | 5 | TOTAL MEAN 28.06667 | | 3 |
| Oct-87 | 151 | 50 | 5 | TOTAL N 66 | | 4 |
| Jan-88 | 40 | 50 | 5 | TOTAL df 65 | | 5 |
| Apr-88 | 37 | 50 | 5 | | 67.00 | 6 |
| Jul-88 | 86 | 50 | 5 | | 78.50 | 7 |
| Oct-88 | 26 | 50 | 5 | | 47.25 | 8 |
| Jan-89 | 8 | 50 | 5 | | 39.25 | 9 |
| Apr-89 | 1 | 50 | 5 | | 30.25 | 10 |
| Jul-89 | 7 | 50 | 5 | | 10.50 | 11 |
| Oct-89 | 7 | 50 | 5 | | 5.75 | 12 |
| Jan-90 | 13 | 50 | 5 | | 7.00 | 13 |
| Apr-90 | 1 | 50 | 5 | | 7.00 | 14 |
| Jul-90 | 18 | 50 | 5 | | 9.75 | 15 |
| Oct-90 | 10 | 50 | 5 | | 10.50 | 16 |
| Jan-91 | 23 | 50 | 5 | | 13.00 | 17 |
| Apr-91 | 24 | 50 | 5 | | 18.75 | 18 |
| Jul-91 | 18 | 50 | 5 | | 18.75 | 19 |
| Oct-91 | 12 | 50 | 5 | | 19.25 | 20 |
| Jan-92 | 24 | 50 | 5 | | 19.50 | 21 |
| Apr-92 | 35 | 50 | 5 | | 22.25 | 22 |
| Jul-92 | 32.1 | 50 | 5 | | 25.78 | 23 |
| Oct-92 | 18.8 | 50 | 5 | | 27.48 | 24 |
| Jan-93 | 18.5 | 50 | 5 | | 26.10 | 25 |
| Apr-93 | 34.3 | 50 | 5 | | 25.93 | 26 |
| Jul-93 | 30 | 50 | 5 | | 25.40 | 27 |
| Oct-93 | 17 | 50 | 5 | | 24.95 | 28 |
| Jan-94 | 26 | 50 | 5 | | 26.83 | 29 |
| Apr-94 | 28 | 50 | 5 | | 25.25 | 30 |
| Jul-94 | 3 | 50 | 5 | | 18.38 | 31 |
| Oct-94 | 30 | 50 | 5 | | 21.63 | 32 |
| Jan-95 | 48 | 50 | 5 | | 27.13 | 33 |
| Apr-95 | 52 | 50 | 5 | | 33.13 | 34 |
| Jul-95 | 27 | 50 | 5 | | 39.25 | 35 |
| Oct-95 | 46 | 50 | 5 | | 43.25 | 36 |
| Apr-96 | 29 | 50 | 5 | | 32.75 | 37 |
| Sep-96 | 45 | 50 | 10 | | 37 | 38 |
| Apr-97 | 30 | 50 | 10 | | 37.5 | 39 |
| Aug-97 | 30 | 50 | 10 | | 30 | 40 |
| Mar-98 | 16 | 50 | 5 | | 23 | 41 |
| Sep-98 | 23 | 50 | 5 | | 19.5 | 42 |
| May-99 | 34 | 50 | 10 | | 28.5 | 43 |
| Sep-99 | 37 | 50 | 10 | | 35.5 | 44 |
| May-00 | 27 | 50 | 10 | | 32 | 45 |
| Nov-00 | 30 | 50 | 5 | | 28.5 | 46 |
| Apr-01 | 29 | 50 | 5 | | 29.5 | 47 |
| Oct-01 | 42 | 50 | 5 | | 35.5 | 48 |
| Apr-02 | 23 | 50 | 5 | | 32.5 | 49 |
| Oct-02 | 24 | 50 | 5 | | 23.5 | 50 |
| Apr-03 | 20 | 50 | 5 | | 22 | 51 |
| Oct-03 | 29 | 50 | 5 | | 24.5 | 52 |
| Apr-04 | 19 | 50 | 5 | | 24 | 53 |
| Apr-04 | 19 | 50 | 5 | | 19 | 53 |
| Oct-04 | 47 | 50 | 5 | | 33 | 54 |
| Apr-05 | 14 | 50 | 5 | | 30.5 | 55 |
| Oct-05 | 31 | 50 | 5 | | 22.5 | 56 |
| May-06 | 25.9 | 50 | 5 | | 28.45 | 57 |
| Oct-06 | 45.1 | 50 | 5 | | 35.5 | 58 |
| May-07 | 18.9 | 50 | 5 | | 32 | 59 |
| Oct-07 | 25.6 | 50 | 5 | | 22.25 | 60 |
| May-08 | 20.8 | 50 | 5 | | 23.2 | 61 |
| May-09 | 24 | 50 | 5 | | 22.4 | 63 |
| Oct-09 | 24.2 | 50 | 5 | | 24.1 | 64 |
| May-10 | 21.1 | 50 | 5 | | 22.65 | 65 |
| Oct-10 | 24.2 | 50 | 5 | | 22.65 | 66 |
| Jun-11 | 15.4 | 50 | 5 | | 19.8 | 67 |
| Oct-11 | 18 | 50 | 5 | | 16.7 | 68 |
| May-12 | 22 | 50 | 2 | | 20 | 69 |
| Oct-12 | 22.4 | 50 | 2 | | 22.2 | 70 |
| May-13 | 23.2 | 50 | 2 | | 22.8 | 71 |
| Oct-13 | 30.1 | 50 | 2 | | 26.65 | 72 |
| Jun-14 | 2 | 50 | 2 | | 16.05 | 73 |
| Oct-14 | 2 | 50 | 2 | | 2 | 74 |

MOVING AVERAGE TREND TEST

VDM-10

TRICHLOROETHENE

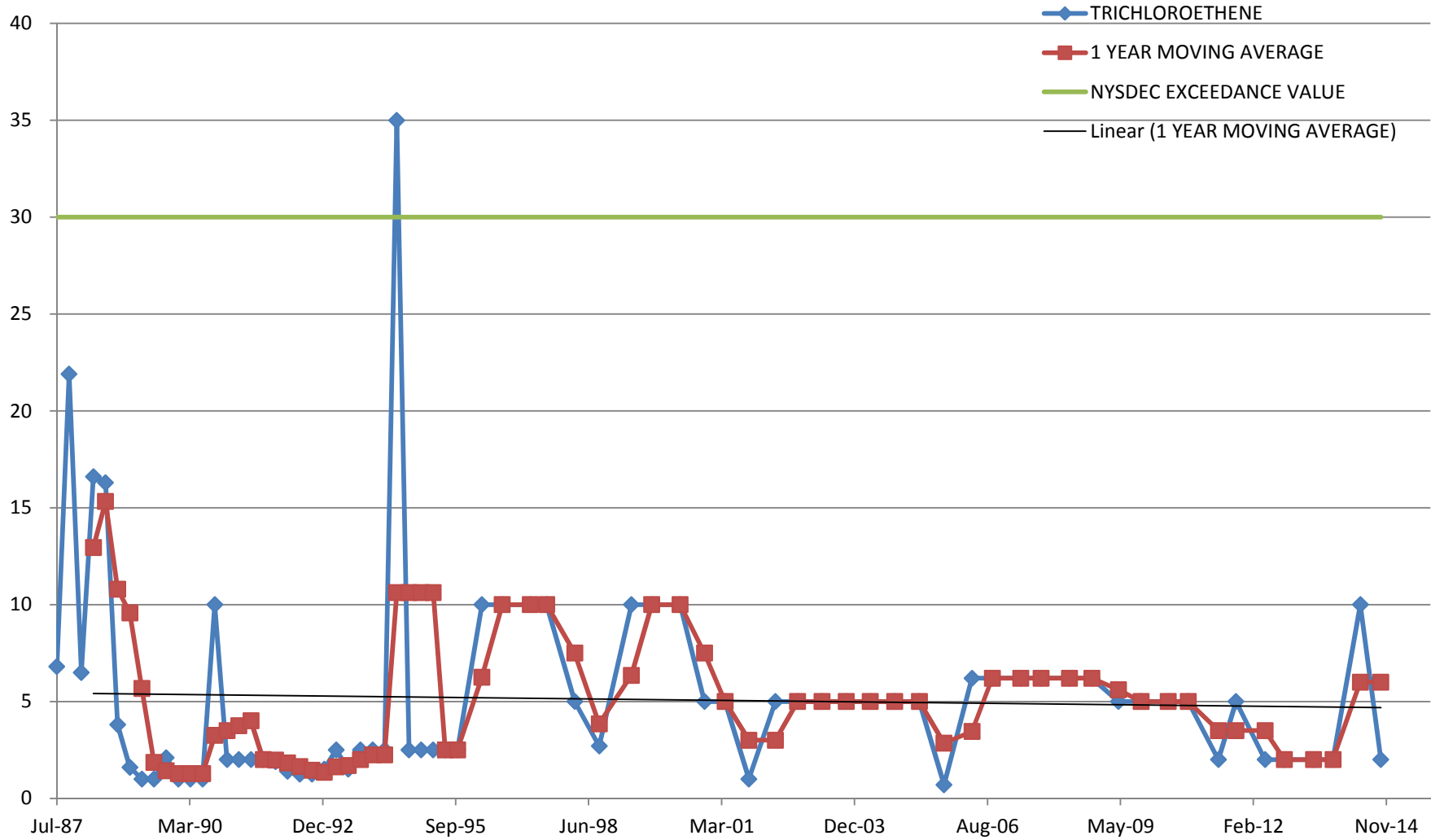


WELL VDM - 10 : TRICHLOROETHENE

WELL VDM - 10 : TRICHLOROETHENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVERAGE | SAMPLING EVENT NO. |
|-------------------|-------------|------------------------|----------------|---------------------|-------------------|----------------------------|
| - | - | - | - | - | - | - |
| Jul-84 | | 20 | 5 | TOTAL STD 2.8106271 | | 1 |
| Oct-84 | | 20 | 5 | TOTAL Sx 0.3245433 | | 2 |
| Jan-85 | 5 | 20 | 5 | TOTAL ME/ 4.0556579 | | 3 |
| Apr-85 | 7.4 | 20 | 5 | TOTAL N 76 | 6.20 | 4 |
| Jul-85 | 5 | 20 | 5 | TOTAL df 75 | 5.80 | 5 |
| Oct-85 | 10 | 20 | 5 | | 6.85 | 6 |
| Jan-86 | 5 | 20 | 5 | | 6.85 | 7 |
| Apr-86 | 5 | 20 | 5 | | 6.25 | 8 |
| Jul-86 | 5 | 20 | 5 | | 6.25 | 9 |
| Oct-86 | 1 | 20 | 5 | | 4.00 | 10 |
| Jan-87 | 1.2 | 20 | 5 | | 3.05 | 11 |
| Apr-87 | 1 | 20 | 5 | | 2.05 | 12 |
| Jul-87 | 1.5 | 20 | 5 | | 1.18 | 13 |
| Oct-87 | 1 | 20 | 5 | | 1.18 | 14 |
| Jan-88 | 1 | 20 | 5 | | 1.13 | 15 |
| Apr-88 | 1 | 20 | 5 | | 1.13 | 16 |
| Jul-88 | 1.5 | 20 | 5 | | 1.13 | 17 |
| Oct-88 | 1.6 | 20 | 5 | | 1.28 | 18 |
| Jan-89 | 1.8 | 20 | 5 | | 1.48 | 19 |
| Apr-89 | 1.6 | 20 | 5 | | 1.63 | 20 |
| Jul-89 | 1 | 20 | 5 | | 1.50 | 21 |
| Oct-89 | 1 | 20 | 5 | | 1.35 | 22 |
| Jan-90 | 1 | 20 | 5 | | 1.15 | 23 |
| Apr-90 | 1 | 20 | 5 | | 1.00 | 24 |
| Jul-90 | 1 | 20 | 5 | | 1.00 | 25 |
| Oct-90 | 1 | 20 | 5 | | 1.00 | 26 |
| Jan-91 | 10 | 20 | 5 | | 3.25 | 27 |
| Apr-91 | 2 | 20 | 5 | | 3.50 | 28 |
| Jul-91 | 2 | 20 | 5 | | 3.75 | 29 |
| Oct-91 | 2 | 20 | 5 | | 4.00 | 30 |
| Jan-92 | 2 | 20 | 5 | | 2.00 | 31 |
| Apr-92 | 1 | 20 | 5 | | 1.75 | 32 |
| Jul-92 | 1 | 20 | 5 | | 1.50 | 33 |
| Oct-92 | 1.25 | 20 | 5 | | 1.31 | 34 |
| Jan-93 | 1.88 | 20 | 5 | | 1.28 | 35 |
| Apr-93 | 1.5 | 20 | 5 | | 1.41 | 36 |
| Jul-93 | 2.5 | 20 | 5 | | 1.78 | 37 |
| Oct-93 | 2.5 | 20 | 5 | | 2.10 | 38 |
| Jan-94 | 2.5 | 20 | 5 | | 2.25 | 39 |
| Apr-94 | 2.5 | 20 | 5 | | 2.50 | 40 |
| Jul-94 | 2.5 | 20 | 5 | | 2.50 | 41 |
| Oct-94 | 3 | 20 | 5 | | 2.63 | 42 |
| Jan-95 | 3.1 | 20 | 5 | | 2.78 | 43 |
| Apr-95 | 3 | 20 | 5 | | 2.90 | 44 |
| Jul-95 | 2.7 | 20 | 5 | | 2.95 | 45 |
| Oct-95 | 2.5 | 20 | 2.5 | | 2.83 | 46 |
| Apr-96 | 10 | 20 | 10 | | 6.30 | 47 |
| Sep-96 | 10 | 20 | 10 | | 10 | 10 09/17/96 semiannual 48 |
| Apr-97 | 10 | 20 | 10 | | 10 | 10 04/03/97 semiannual 49 |
| Aug-97 | 10 | 20 | 10 | | 10 | 10 08/27/97 semiannual 50 |
| Mar-98 | 5 | 20 | 5 | | 7.5 | 7.5 03/24/98 semiannual 51 |
| Sep-98 | 1.2 | 20 | 5 | | 3.1 | 3.1 09/22/98 semiannual 52 |
| May-99 | 10 | 20 | 10 | | 5.6 | 5.6 05/11/99 semiannual 53 |
| Oct-99 | 10 | 20 | 10 | | 10 | 10 10/05/99 semiannual 54 |
| May-00 | 10 | 20 | 10 | | 10 | 10 05/16/00 semiannual 55 |
| Nov-00 | 5 | 20 | 5 | | 7.5 | 7.5 11/28/00 semiannual 56 |
| Apr-01 | 5 | 20 | 5 | | 5 | 5 04/04/01 semiannual 57 |
| Oct-01 | 5 | 20 | 5 | | 5 | 5 10/18/01 semiannual 58 |
| Apr-02 | 5 | 20 | 5 | | 5 | 5 04/18/02 semiannual 59 |
| Oct-02 | 5 | 20 | 5 | | 5 | 5 10/03/02 semiannual 60 |
| Apr-03 | 5 | 20 | 5 | | 5 | 5 04/25/03 semiannual 61 |
| Oct-03 | 5 | 20 | 5 | | 5 | 5 10/03/03 semiannual 62 |
| Apr-04 | 5 | 20 | 5 | | 5 | 5 04/01/04 semiannual 63 |
| Oct-04 | 5 | 20 | 5 | | 5 | 5 10/19/04 semiannual 64 |
| Apr-05 | 5 | 20 | 5 | | 5 | 5 04/22/05 semiannual 65 |
| Oct-05 | 5 | 20 | 5 | | 5 | 5 10/07/05 semiannual 66 |
| May-06 | 5 | 20 | 5 | | 5 | 5 05/11/06 semiannual 67 |
| Oct-06 | 6.2 | 20 | 5 | | 5.6 | 5.6 10/18/06 semiannual 68 |
| May-07 | 6.2 | 20 | 5 | | 6.2 | 6.2 05/22/07 semiannual 69 |
| Oct-07 | 6.2 | 20 | 5 | | 6.2 | 6.2 10/25/07 semiannual 70 |
| May-08 | 6.2 | 20 | 5 | | 6.2 | 6.2 05/13/08 semiannual 71 |
| Oct-08 | 6.2 | 20 | 5 | | 6.2 | 6.2 10/18/09 semiannual 72 |
| May-09 | 5 | 20 | 5 | | 5.6 | 5.6 05/09/09 semiannual 73 |
| Oct-09 | 5 | 20 | 5 | | 5 | 5 10/29/09 semiannual 74 |
| May-10 | 5 | 20 | 5 | | 5 | 5 05/20/10 semiannual 75 |
| Oct-10 | 5 | 20 | 5 | | 5 | 5 10/18/10 semiannual 76 |
| Jun-11 | 2 | 20 | 2 | | 3.5 | 3.5 06/02/11 semiannual 77 |
| Oct-11 | 5 | 20 | 5 | | 3.5 | 3.5 10/12/11 semiannual 78 |
| May-12 | 2 | 20 | 2 | | 3.5 | 3.5 05/18/12 semiannual 79 |
| Oct-12 | 2 | 20 | 2 | | 2 | 2 10/11/12 semiannual 80 |
| May-13 | 2 | 20 | 2 | | 2 | 2 05/17/13 semiannual 81 |
| Oct-13 | 2 | 20 | 2 | | 2 | 2 10/11/13 semiannual 82 |
| May-14 | 10 | 20 | 10 | | 6 | 6 05/05/14 semiannual 83 |
| Oct-14 | 2 | 20 | 2 | | 6 | 6 10/06/14 semiannual 84 |

MOVING AVERAGE TREND TEST VDM-11 TRICHLOROETHENE



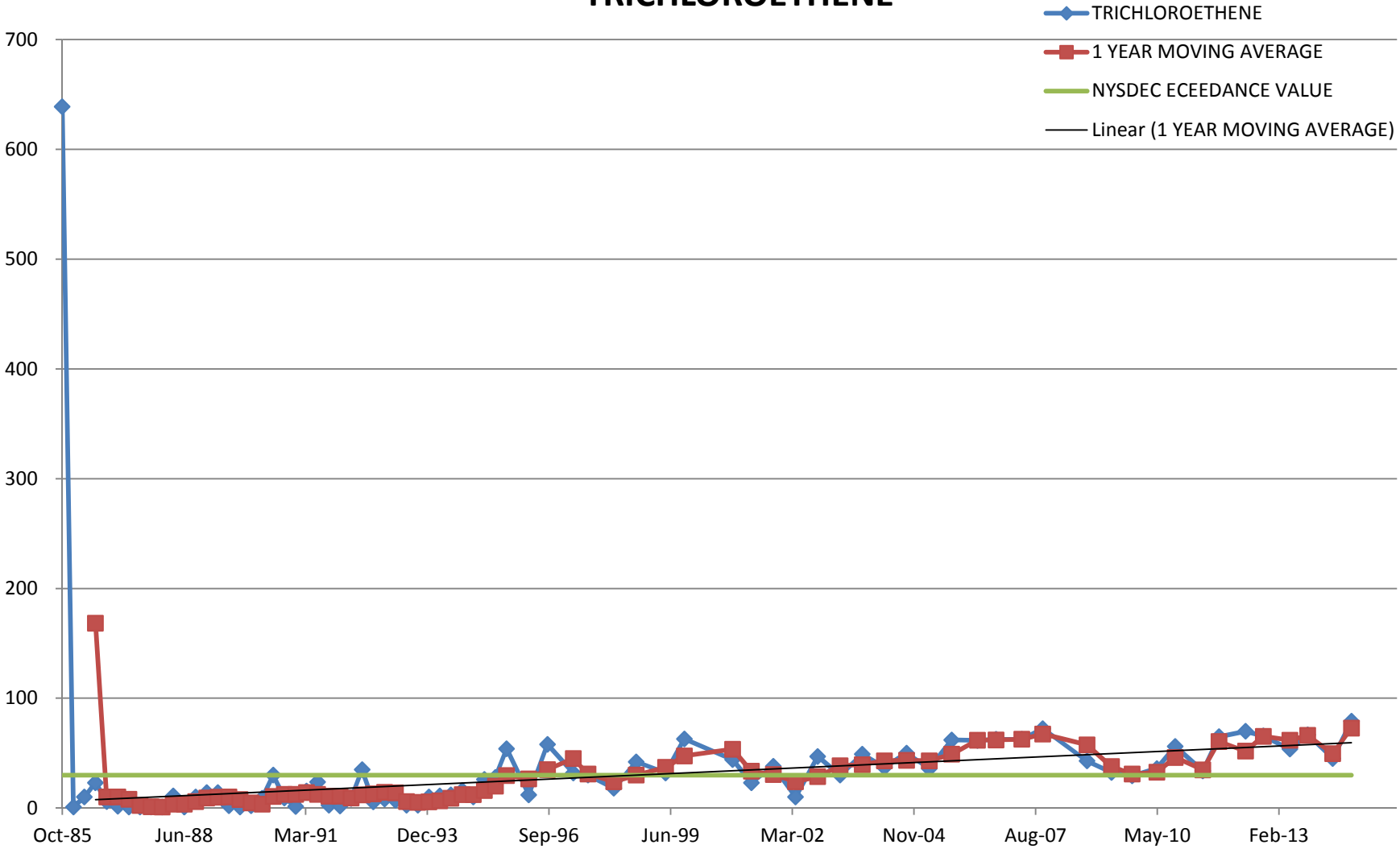
WELL VDM - 11 : TRICHLOROETHENE

| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|--------------------------|-------------|------------------------|-----------------|-------------------|---------------|------------------------------|
| - | - | - | - | - | - | - |
| Jan-87 | | 30 | 5 | TOTAL STD 5.4394 | | 1 |
| Apr-87 | | 30 | 5 | TOTAL Sx 0.6695 | | 2 |
| Jul-87 | 6.8 | 30 | 5 | TOTAL MEAN 5.3060 | | 3 |
| Oct-87 | 21.9 | 30 | 5 | TOTAL N 67 | | 4 |
| Jan-88 | 6.5 | 30 | 5 | TOTAL df 66 | | 5 |
| Apr-88 | 16.6 | 30 | 5 | | 12.95 | 6 |
| Jul-88 | 16.3 | 30 | 5 | | 15.33 | 7 |
| Oct-88 | 3.8 | 30 | 5 | | 10.80 | 8 |
| Jan-89 | 1.6 | 30 | 5 | | 9.58 | 9 |
| Apr-89 | 1 | 30 | 5 | | 5.68 | 10 |
| Jul-89 | 1 | 30 | 5 | | 1.85 | 11 |
| Oct-89 | 2.1 | 30 | 5 | | 1.43 | 12 |
| Jan-90 | 1 | 30 | 5 | | 1.28 | 13 |
| Apr-90 | 1 | 30 | 5 | | 1.28 | 14 |
| Jul-90 | 1 | 30 | 5 | | 1.28 | 15 |
| Oct-90 | 10 | 30 | 5 | | 3.25 | 16 |
| Jan-91 | 2 | 30 | 5 | | 3.50 | 17 |
| Apr-91 | 2 | 30 | 5 | | 3.75 | 18 |
| Jul-91 | 2 | 30 | 5 | | 4.00 | 19 |
| Oct-91 | 2 | 30 | 5 | | 2.00 | 20 |
| Jan-92 | 1.9 | 30 | 5 | | 1.98 | 21 |
| Apr-92 | 1.4 | 30 | 5 | | 1.83 | 22 |
| Jul-92 | 1.25 | 30 | 5 | | 1.64 | 23 |
| Oct-92 | 1.25 | 30 | 5 | | 1.45 | 24 |
| Jan-93 | 1.5 | 30 | 5 | | 1.35 | 25 |
| Apr-93 | 2.5 | 30 | 5 | | 1.63 | 26 |
| Jul-93 | 1.5 | 30 | 5 | | 1.69 | 27 |
| Oct-93 | 2.5 | 30 | 5 | | 2.00 | 28 |
| Jan-94 | 2.5 | 30 | 5 | | 2.25 | 29 |
| Apr-94 | 2.5 | 30 | 5 | | 2.25 | 30 |
| Jul-94 | 35 | 30 | 5 | | 10.63 | 31 |
| Oct-94 | 2.5 | 30 | 5 | | 10.63 | 32 |
| Jan-95 | 2.5 | 30 | 5 | | 10.63 | 33 |
| Apr-95 | 2.5 | 30 | 5 | | 10.63 | 34 |
| Jul-95 | 2.5 | 30 | 5 | | 2.50 | 35 |
| Oct-95 | 2.5 | 30 | 2.5 | | 2.50 | 36 |
| Apr-96 | 10 | 30 | 10 | | 6.25 | 37 |
| Sep-96 | 10 | 30 | 10 | | 10 | 10 9/17/1996 semiannual 38 |
| Apr-97 | 10 | 30 | 10 | | 10 | 10 4/3/1997 semiannual 39 |
| Aug-97 | 10 | 30 | 10 | | 10 | 10 8/27/1997 semiannual 40 |
| Mar-98 | 5 | 30 | 5 | | 7.5 | 7.5 3/24/1998 semiannual 41 |
| Sep-98 | 2.7 | 30 | 5 | | 3.85 | 3.85 9/22/1998 semiannual 42 |
| May-99 | 10 | 30 | 10 | | 6.35 | 6.35 5/11/1999 semiannual 43 |
| Oct-99 | 10 | 30 | 10 | | 10 | 10 10/5/1999 semiannual 44 |
| May-00 | 10 | 30 | 10 | | 10 | 10 5/16/2000 semiannual 45 |
| Nov-00 | 5 | 30 | 5 | | 7.5 | 7.5 11/28/2000 semiannual 46 |
| Apr-01 | 5 | 30 | 5 | | 5 | 5 4/4/2001 semiannual 47 |
| Oct-01 | 1 | 30 | 5 | | 3 | 3 10/18/2001 semiannual 48 |
| Apr-02 | 5 | 30 | 5 | | 3 | 3 4/18/2002 semiannual 49 |
| Oct-02 | 5 | 30 | 5 | | 5 | 5 10/3/2002 semiannual 50 |
| Apr-03 | 5 | 30 | 5 | | 5 | 5 4/25/2003 semiannual 51 |
| Oct-03 | 5 | 30 | 5 | | 5 | 5 10/3/2003 semiannual 52 |
| Apr-04 | 5 | 30 | 5 | | 5 | 5 4/1/2004 semiannual 53 |
| Oct-04 | 5 | 30 | 5 | | 5 | 5 10/19/2004 semiannual 54 |
| Apr-05 | 5 | 30 | 5 | | 5 | 5 4/22/2005 semiannual 55 |
| Oct-05 | 0.7 | 30 | 5 | | 2.85 | 2.85 10/7/2005 semiannual 56 |
| May-06 | 6.2 | 30 | 5 | | 3.45 | 3.45 5/11/2006 semiannual 57 |
| Oct-06 | 6.2 | 30 | 5 | | 6.2 | 6.2 10/18/2006 semiannual 58 |
| May-07 | 6.2 | 30 | 5 | | 6.2 | 6.2 5/22/2007 semiannual 59 |
| Oct-07 | 6.2 | 30 | 5 | | 6.2 | 6.2 10/25/2007 semiannual 60 |
| May-08 | 6.2 | 30 | 5 | | 6.2 | 6.2 5/8/2008 semiannual 61 |
| Oct-08 | 6.2 | 30 | 5 | | 6.2 | 6.2 10/23/2008 semiannual 62 |
| May-09 | 5 | 30 | 5 | | 5.6 | 5.6 5/12/2009 semiannual 63 |
| Oct-09 | 5 | 30 | 5 | | 5 | 5 10/29/2009 semiannual 64 |
| May-10 | 5 | 30 | 5 | | 5 | 5 5/20/2010 semiannual 65 |
| Oct-10 | 5 | 30 | 5 | | 5 | 5 10/18/2010 semiannual 66 |
| Jun-11 | 2 | 30 | 2 | | 3.5 | 3.5 6/2/2011 semiannual 67 |
| Oct-11 | 5 | 30 | 5 | | 3.5 | 3.5 10/12/2011 semiannual 68 |
| May-12 | 2 | 30 | 2 | | 3.5 | 3.5 5/18/2012 semiannual 69 |
| Oct-12 | 2 | 30 | 2 | | 2 | 2 10/11/2012 semiannual 70 |
| May-13 | 2 | 30 | 2 | | 2 | 2 5/17/2013 semiannual 71 |
| Oct-13 | 2 | 30 | 2 | | 2 | 2 10/11/2013 semiannual 72 |
| May-14 | 10 | 30 | 10 | | 6 | 6 5/5/2014 semiannual 73 |
| Oct-14 | 2 | 30 | 2 | | 6 | 6 10/6/2014 semiannual 74 |

MOVING AVERAGE TREND TEST

VDM-14

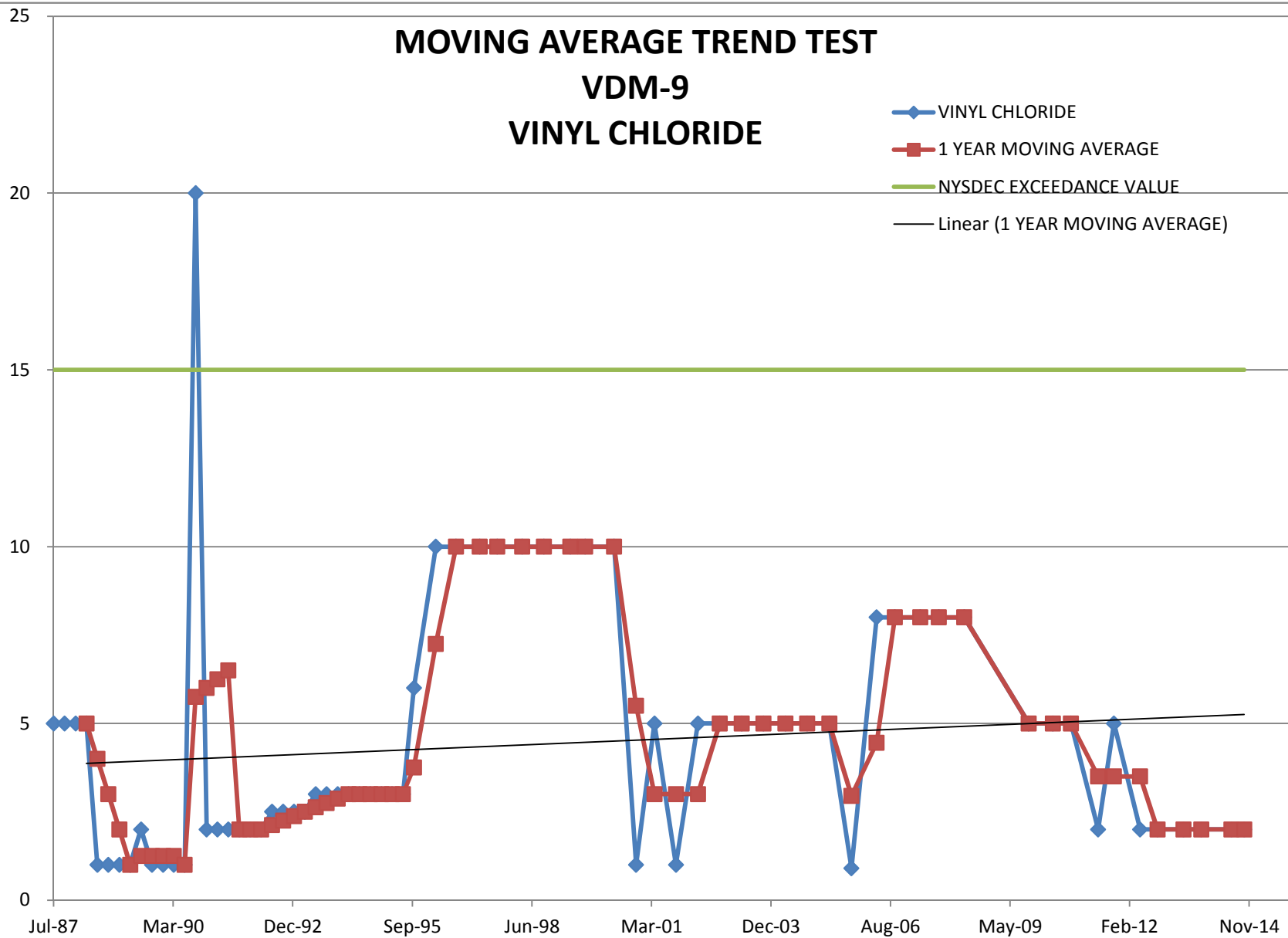
TRICHLOROETHENE



WELL VDM - 14 : TRICHLOROETHENE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | |
|-------------------|-------------|------------------------|-----------------|--------------------|---------------|-----------------------------|----|
| ----- | - | - | - | - | - | - | |
| Oct-85 | 639 | 30 | 5 | TOTAL STE 74.90527 | | 1 | |
| Jan-86 | 1 | 30 | 5 | TOTAL Sx 8.88962 | | 2 | |
| Apr-86 | 10 | 30 | 5 | TOTAL MEA 33.41306 | | 3 | |
| Jul-86 | 23 | 30 | 5 | TOTAL N 72 | 168.25 | 4 | |
| Oct-86 | 5.8 | 30 | 5 | TOTAL df 71 | 9.95 | 5 | |
| Jan-87 | 1.7 | 30 | 5 | | 10.13 | 6 | |
| Apr-87 | 1 | 30 | 5 | | 7.88 | 7 | |
| Jul-87 | 1 | 30 | 5 | | 2.38 | 8 | |
| Oct-87 | 1 | 30 | 5 | | 1.18 | 9 | |
| Jan-88 | 1 | 30 | 5 | | 1.00 | 10 | |
| Apr-88 | 11 | 30 | 5 | | 3.50 | 11 | |
| Jul-88 | 1 | 30 | 5 | | 3.50 | 12 | |
| Oct-88 | 10 | 30 | 5 | | 5.75 | 13 | |
| Jan-89 | 14 | 30 | 5 | | 9.00 | 14 | |
| Apr-89 | 14 | 30 | 5 | | 9.75 | 15 | |
| Jul-89 | 2 | 30 | 5 | | 10.00 | 16 | |
| Oct-89 | 1 | 30 | 5 | | 7.75 | 17 | |
| Jan-90 | 2 | 30 | 5 | | 4.75 | 18 | |
| Apr-90 | 8.8 | 30 | 5 | | 3.45 | 19 | |
| Jul-90 | 30 | 30 | 5 | | 10.45 | 20 | |
| Oct-90 | 9.2 | 30 | 5 | | 12.50 | 21 | |
| Jan-91 | 1.25 | 30 | 5 | | 12.31 | 22 | |
| Apr-91 | 15.4 | 30 | 5 | | 13.96 | 23 | |
| Jul-91 | 23.7 | 30 | 5 | | 12.39 | 24 | |
| Oct-91 | 2.5 | 30 | 5 | | 10.71 | 25 | |
| Jan-92 | 1.89 | 30 | 5 | | 10.87 | 26 | |
| Apr-92 | 8.6 | 30 | 5 | | 9.17 | 27 | |
| Jul-92 | 35 | 30 | 5 | | 12.00 | 28 | |
| Oct-92 | 5.6 | 30 | 5 | | 12.77 | 29 | |
| Jan-93 | 8.1 | 30 | 5 | | 14.33 | 30 | |
| Apr-93 | 7 | 30 | 5 | | 13.93 | 31 | |
| Jul-93 | 2.5 | 30 | 5 | | 5.80 | 32 | |
| Oct-93 | 2.5 | 30 | 5 | | 5.03 | 33 | |
| Jan-94 | 10 | 30 | 5 | | 5.50 | 34 | |
| Apr-94 | 11 | 30 | 5 | | 6.50 | 35 | |
| Jul-94 | 12 | 30 | 5 | | 8.88 | 36 | |
| Oct-94 | 16 | 30 | 5 | | 12.25 | 37 | |
| Jan-95 | 10 | 30 | 5 | | 12.25 | 38 | |
| Apr-95 | 26 | 30 | 5 | | 16.00 | 39 | |
| Jul-95 | 28 | 30 | 5 | | 20.00 | 40 | |
| Oct-95 | 54 | 30 | 5 | | 29.50 | 41 | |
| Apr-96 | 12 | 30 | 5 | | 26.5 | 42 | |
| Sep-96 | 58 | 30 | 10 | | 35 | 35 9/17/1996 semiannual | 43 |
| Apr-97 | 32 | 30 | 10 | | 45 | 45 4/3/1997 semiannual | 44 |
| Aug-97 | 30 | 30 | 100 | | 31 | 31 8/27/1997 semiannual | 45 |
| Mar-98 | 18 | 30 | 5 | | 24 | 24 3/24/1998 semiannual | 46 |
| Sep-98 | 42 | 30 | 5 | | 30 | 30 9/22/1998 semiannual | 47 |
| May-99 | 32 | 30 | 10 | | 37 | 37 5/11/1999 semiannual | 48 |
| Oct-99 | 63 | 30 | 10 | | 47.5 | 47.5 10/5/1999 semiannual | 49 |
| Nov-00 | 44 | 30 | 5 | | 53.5 | 53.5 11/28/2000 semiannual | 50 |
| Apr-01 | 23 | 30 | 5 | | 33.5 | 33.5 4/4/2001 semiannual | 51 |
| Oct-01 | 38 | 30 | 5 | | 30.5 | 30.5 10/18/2001 semiannual | 52 |
| Apr-02 | 10 | 30 | 5 | | 24 | 24 4/18/2002 semiannual | 53 |
| Oct-02 | 47 | 30 | 25 | | 28.5 | 28.5 10/18/2001 semiannual | 54 |
| Apr-03 | 30 | 30 | 10 | | 38.5 | 38.5 4/25/2003 semiannual | 55 |
| Oct-03 | 49 | 30 | 5 | | 39.5 | 39.5 10/3/2003 semiannual | 56 |
| Apr-04 | 37 | 30 | 5 | | 43 | 43 4/1/2004 semiannual | 57 |
| Oct-04 | 50 | 30 | 10 | | 43.5 | 49.5 10/19/2004 semiannual | 58 |
| Apr-05 | 36 | 30 | 10 | | 43 | 42.5 4/22/2005 semiannual | 59 |
| Oct-05 | 62 | 30 | 10 | | 49 | 55.5 10/7/2005 semiannual | 60 |
| May-06 | 61.5 | 30 | 10 | | 61.75 | 55.25 5/11/2006 semiannual | 61 |
| Oct-06 | 62.6 | 30 | 10 | | 62.05 | 55.8 10/18/2006 semiannual | 62 |
| May-07 | 62.6 | 30 | 10 | | 62.6 | 46.3 5/22/2007 semiannual | 63 |
| Oct-07 | 72.3 | 30 | 10 | | 67.45 | 60.65 10/25/2007 semiannual | 63 |
| Oct-08 | 42.9 | 30 | 10 | | 57.6 | 46.45 10/23/2008 semiannual | 64 |
| May-09 | 32.4 | 30 | 25 | | 37.65 | 34.2 5/12/2009 semiannual | 65 |
| Oct-09 | 29.3 | 30 | 25 | | 30.85 | 45.65 10/29/2009 semiannual | 66 |
| May-10 | 35.9 | 30 | 25 | | 32.6 | 48.7 5/20/2010 semiannual | 67 |
| Oct-10 | 56.1 | 30 | 25 | | 46 | 59.35 10/18/2010 semiannual | 68 |
| Jun-11 | 33.7 | 30 | 25 | | 34.8 | 48.15 6/2/2011 semiannual | 69 |
| Oct-11 | 65 | 30 | 50 | | 60.55 | 63.8 10/12/2011 semiannual | 70 |
| May-12 | 69.9 | 30 | 2 | | 51.8 | 71.1 5/18/2012 semiannual | 71 |
| Oct-12 | 65.6 | 30 | 2 | | 65.3 | 54.25 10/11/2012 semiannual | 72 |
| May-13 | 53.7 | 30 | 2 | | 61.8 | 43.05 5/17/2013 semiannual | 73 |
| Oct-13 | 66.7 | 30 | 2 | | 66.15 | 48 10/11/2013 semiannual | 74 |
| May-14 | 45.1 | 30 | 2 | | 49.4 | 40.5 5/5/2014 semiannual | 75 |
| Oct-14 | 79 | 30 | 2 | | 72.85 | 67.55 10/6/2014 semiannual | 76 |

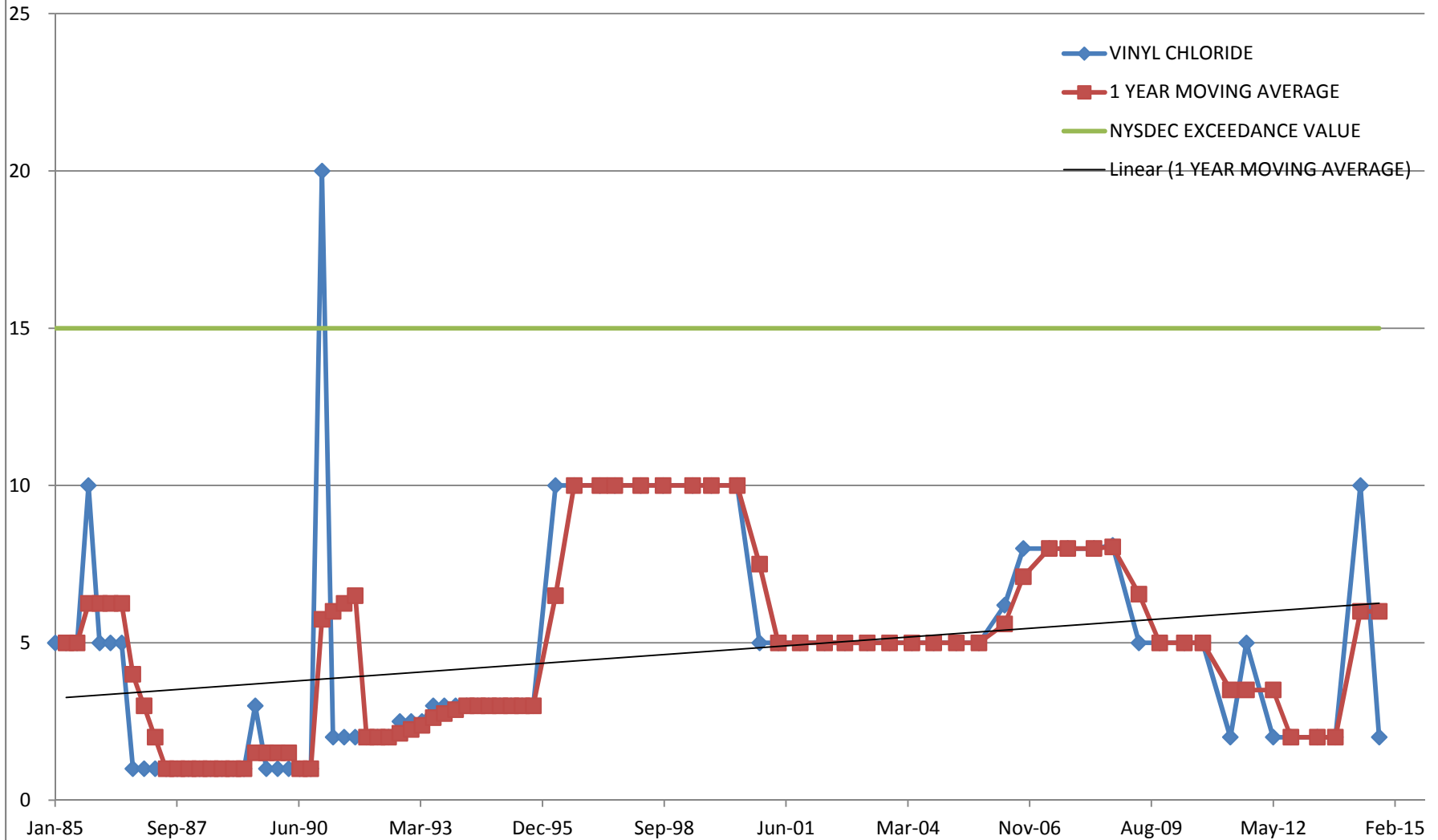
MOVING AVERAGE TREND TEST VDM-9 VINYL CHLORIDE



WELL VDM - 9 : VINYL CHLORIDE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|---------------------|---------------|-----------------------------|
| Jan-87 | | 15 | 2 | TOTAL STD 3.534423 | | 1 |
| Apr-87 | | 15 | 2 | TOTAL Sx 0.445295 | | 2 |
| Jul-87 | 5 | 15 | 2 | TOTAL MEAN 4.685938 | | 3 |
| Oct-87 | 5 | 15 | 2 | TOTAL N 64 | | 4 |
| Jan-88 | 5 | 15 | 2 | TOTAL df 63 | | 5 |
| Apr-88 | 5 | 15 | 2 | | 5.00 | 6 |
| Jul-88 | 1 | 15 | 2 | | 4.00 | 7 |
| Oct-88 | 1 | 15 | 2 | | 3.00 | 8 |
| Jan-89 | 1 | 15 | 2 | | 2.00 | 9 |
| Apr-89 | 1 | 15 | 2 | | 1.00 | 10 |
| Jul-89 | 2 | 15 | 2 | | 1.25 | 11 |
| Oct-89 | 1 | 15 | 2 | | 1.25 | 12 |
| Jan-90 | 1 | 15 | 2 | | 1.25 | 13 |
| Apr-90 | 1 | 15 | 2 | | 1.25 | 14 |
| Jul-90 | 1 | 15 | 2 | | 1.00 | 15 |
| Oct-90 | 20 | 15 | 2 | | 5.75 | 16 |
| Jan-91 | 2 | 15 | 2 | | 6.00 | 17 |
| Apr-91 | 2 | 15 | 2 | | 6.25 | 18 |
| Jul-91 | 2 | 15 | 2 | | 6.50 | 19 |
| Oct-91 | 2 | 15 | 2 | | 2.00 | 20 |
| Jan-92 | 2 | 15 | 2 | | 2.00 | 21 |
| Apr-92 | 2 | 15 | 2 | | 2.00 | 22 |
| Jul-92 | 2.5 | 15 | 2 | | 2.13 | 23 |
| Oct-92 | 2.5 | 15 | 2 | | 2.25 | 24 |
| Jan-93 | 2.5 | 15 | 2 | | 2.38 | 25 |
| Apr-93 | 2.5 | 15 | 2 | | 2.50 | 26 |
| Jul-93 | 3 | 15 | 2 | | 2.63 | 27 |
| Oct-93 | 3 | 15 | 2 | | 2.75 | 28 |
| Jan-94 | 3 | 15 | 2 | | 2.88 | 29 |
| Apr-94 | 3 | 15 | 2 | | 3.00 | 30 |
| Jul-94 | 3 | 15 | 2 | | 3.00 | 31 |
| Oct-94 | 3 | 15 | 2 | | 3.00 | 32 |
| Jan-95 | 3 | 15 | 2 | | 3.00 | 33 |
| Apr-95 | 3 | 15 | 2 | | 3.00 | 34 |
| Jul-95 | 3 | 15 | 2 | | 3.00 | 35 |
| Oct-95 | 6 | 15 | 6 | | 3.75 | 36 |
| Apr-96 | 10 | 15 | 10 | | 7.25 | 7.25 04/01/96 semiannual 37 |
| Sep-96 | 10 | 15 | 10 | | 10 | 10 09/17/96 semiannual 38 |
| Apr-97 | 10 | 15 | 10 | | 10 | 10 04/03/97 semiannual 39 |
| Aug-97 | 10 | 15 | 10 | | 10 | 10 08/27/97 semiannual 40 |
| Mar-98 | 10 | 15 | 10 | | 10 | 10 03/24/98 semiannual 41 |
| Sep-98 | 10 | 15 | 10 | | 10 | 10 09/22/98 semiannual 42 |
| May-99 | 10 | 15 | 10 | | 10 | 10 05/11/99 semiannual 43 |
| Sep-99 | 10 | 15 | 10 | | 10 | 10 09/29/99 semiannual 44 |
| May-00 | 10 | 15 | 10 | | 10 | 10 05/16/00 semiannual 45 |
| Nov-00 | 1 | 15 | 5 | | 5.5 | 5.5 11/28/00 semiannual 46 |
| Apr-01 | 5 | 15 | 5 | | 3 | 3 04/04/01 semiannual 47 |
| Oct-01 | 1 | 15 | 5 | | 3 | 3 10/18/01 semiannual 48 |
| Apr-02 | 5 | 15 | 5 | | 3 | 3 04/18/02 semiannual 49 |
| Oct-02 | 5 | 15 | 5 | | 5 | 5 10/03/02 semiannual 50 |
| Apr-03 | 5 | 15 | 5 | | 5 | 5 04/25/03 semiannual 51 |
| Oct-03 | 5 | 15 | 5 | | 5 | 5 10/03/03 semiannual 52 |
| Apr-04 | 5 | 15 | 5 | | 5 | 5 04/01/04 semiannual 53 |
| Oct-04 | 5 | 15 | 5 | | 5 | 5 10/19/04 semiannual 54 |
| Apr-05 | 5 | 15 | 5 | | 5 | 5 04/22/05 semiannual 55 |
| Oct-05 | 0.9 | 15 | 5 | | 2.95 | 2.95 10/07/05 semiannual 56 |
| May-06 | 8 | 15 | 5 | | 4.45 | 4.45 05/11/06 semiannual 57 |
| Oct-06 | 8 | 15 | 5 | | 8 | 8 10/18/06 semiannual 58 |
| May-07 | 8 | 15 | 5 | | 8 | 8 05/22/07 semiannual 59 |
| Oct-07 | 8 | 15 | 5 | | 8 | 8 10/25/07 semiannual 60 |
| May-08 | 8 | 15 | 5 | | 8 | 8 05/13/08 semiannual 61 |
| Oct-09 | 5 | 15 | 5 | | 5 | 6.5 10/29/09 semiannual 64 |
| May-10 | 5 | 15 | 5 | | 5 | 5 05/20/10 semiannual 65 |
| Oct-10 | 5 | 15 | 5 | | 5 | 5 10/18/10 semiannual 66 |
| Jun-11 | 2 | 15 | 2 | | 3.5 | 3.5 06/02/11 semiannual 67 |
| Oct-11 | 5 | 15 | 5 | | 3.5 | 3.5 10/12/11 semiannual 68 |
| May-12 | 2 | 15 | 2 | | 3.5 | 3.5 05/18/12 semiannual 69 |
| Oct-12 | 2 | 15 | 2 | | 2 | 2 10/11/12 semiannual 70 |
| May-13 | 2 | 15 | 2 | | 2 | 2 05/17/13 semiannual 71 |
| Oct-13 | 2 | 15 | 2 | | 2 | 2 10/11/13 semiannual 72 |
| Jun-14 | 2 | 15 | 2 | | 2 | 2 06/20/14 semiannual 73 |
| Oct-14 | 2 | 15 | 2 | | 2 | 2 10/06/14 semiannual 74 |

MOVING AVERAGE TREND TEST VDM-10 VINYL CHLORIDE



WELL VDM - 10 : VINYL CHLORIDE

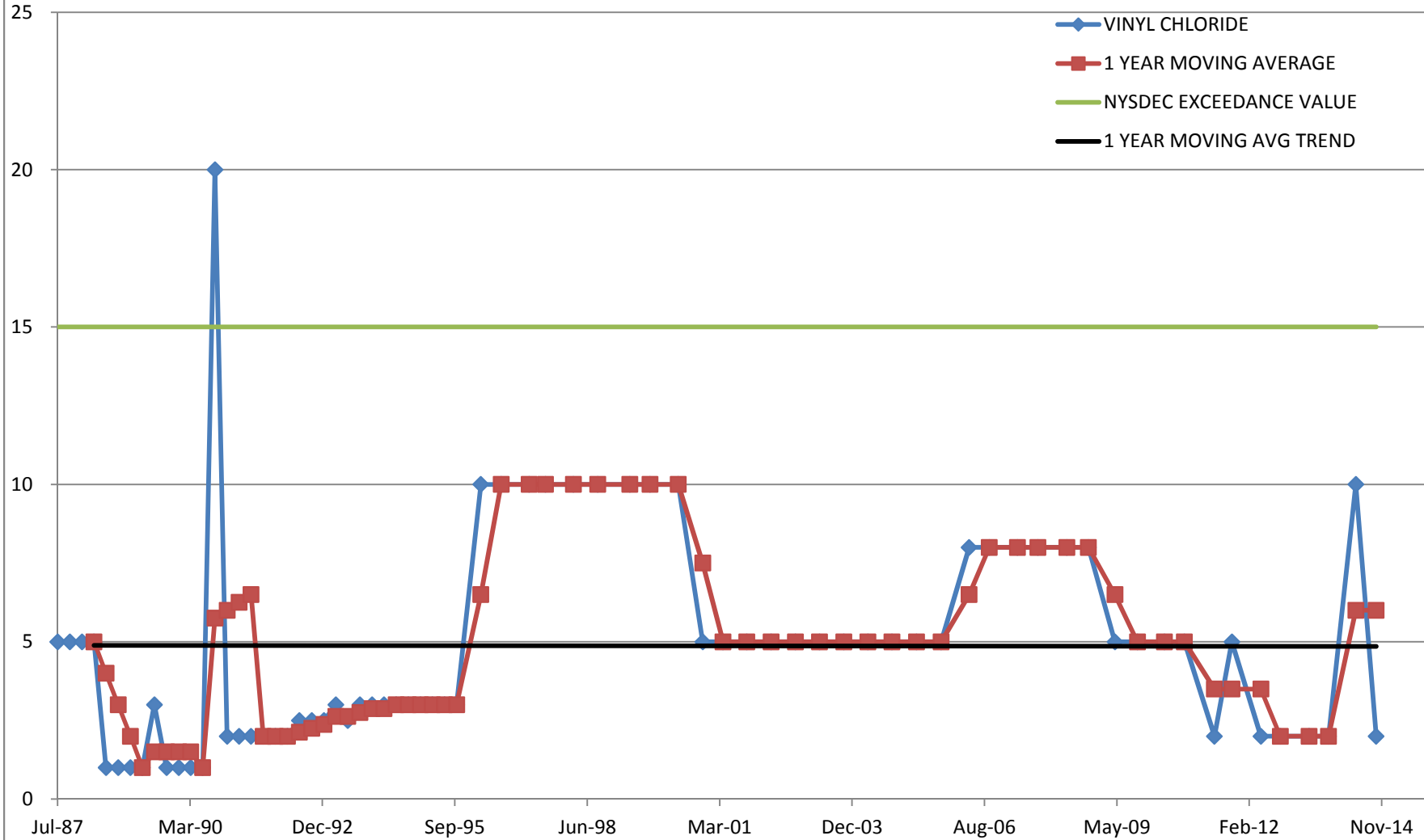
WELL VDM - 10 : VINYL CHLORIDE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | MOVING AVERAGE | SAMPLING EVENT NO. |
|-------------------|-------------|------------------------|----------------|----------------------|-------------------|-----------------------------|
| - | - | - | - | - | - | - |
| Jul-84 | | 15 | 2 | TOTAL STD 3.42071253 | | 1 |
| Oct-84 | | 15 | 2 | TOTAL Sx 0.39498986 | | 2 |
| Jan-85 | 5 | 15 | 2 | TOTAL MEA 4.56315789 | | 3 |
| Apr-85 | 5 | 15 | 2 | TOTAL N 76 | 5.00 | 4 |
| Jul-85 | 5 | 15 | 2 | TOTAL df 75 | 5.00 | 5 |
| Oct-85 | 10 | 15 | 2 | | 6.25 | 6 |
| Jan-86 | 5 | 15 | 2 | | 6.25 | 7 |
| Apr-86 | 5 | 15 | 2 | | 6.25 | 8 |
| Jul-86 | 5 | 15 | 2 | | 6.25 | 9 |
| Oct-86 | 1 | 15 | 2 | | 4.00 | 10 |
| Jan-87 | 1 | 15 | 2 | | 3.00 | 11 |
| Apr-87 | 1 | 15 | 2 | | 2.00 | 12 |
| Jul-87 | 1 | 15 | 2 | | 1.00 | 13 |
| Oct-87 | 1 | 15 | 2 | | 1.00 | 14 |
| Jan-88 | 1 | 15 | 2 | | 1.00 | 15 |
| Apr-88 | 1 | 15 | 2 | | 1.00 | 16 |
| Jul-88 | 1 | 15 | 2 | | 1.00 | 17 |
| Oct-88 | 1 | 15 | 2 | | 1.00 | 18 |
| Jan-89 | 1 | 15 | 2 | | 1.00 | 19 |
| Apr-89 | 1 | 15 | 2 | | 1.00 | 20 |
| Jul-89 | 3 | 15 | 2 | | 1.50 | 21 |
| Oct-89 | 1 | 15 | 2 | | 1.50 | 22 |
| Jan-90 | 1 | 15 | 2 | | 1.50 | 23 |
| Apr-90 | 1 | 15 | 2 | | 1.50 | 24 |
| Jul-90 | 1 | 15 | 2 | | 1.00 | 25 |
| Oct-90 | 1 | 15 | 2 | | 1.00 | 26 |
| Jan-91 | 20 | 15 | 2 | | 5.75 | 27 |
| Apr-91 | 2 | 15 | 2 | | 6.00 | 28 |
| Jul-91 | 2 | 15 | 2 | | 6.25 | 29 |
| Oct-91 | 2 | 15 | 2 | | 6.50 | 30 |
| Jan-92 | 2 | 15 | 2 | | 2.00 | 31 |
| Apr-92 | 2 | 15 | 2 | | 2.00 | 32 |
| Jul-92 | 2 | 15 | 2 | | 2.00 | 33 |
| Oct-92 | 2.5 | 15 | 2 | | 2.13 | 34 |
| Jan-93 | 2.5 | 15 | 2 | | 2.25 | 35 |
| Apr-93 | 2.5 | 15 | 2 | | 2.38 | 36 |
| Jul-93 | 3 | 15 | 2 | | 2.63 | 37 |
| Oct-93 | 3 | 15 | 2 | | 2.75 | 38 |
| Jan-94 | 3 | 15 | 2 | | 2.88 | 39 |
| Apr-94 | 3 | 15 | 2 | | 3.00 | 40 |
| Jul-94 | 3 | 15 | 2 | | 3.00 | 41 |
| Oct-94 | 3 | 15 | 2 | | 3.00 | 42 |
| Jan-95 | 3 | 15 | 2 | | 3.00 | 43 |
| Apr-95 | 3 | 15 | 2 | | 3.00 | 44 |
| Jul-95 | 3 | 15 | 2 | | 3.00 | 45 |
| Oct-95 | 3 | 15 | 3 | | 3.00 | 46 |
| Apr-96 | 10 | 15 | 10 | | 6.50 | 47 |
| Sep-96 | 10 | 15 | 10 | | 10 | 09/17/96 semiannual 48 |
| Apr-97 | 10 | 15 | 10 | | 10 | 10 04/03/97 semiannual 49 |
| Aug-97 | 10 | 15 | 10 | | 10 | 10 08/27/97 semiannual 50 |
| Mar-98 | 10 | 15 | 10 | | 10 | 10 03/24/98 semiannual 51 |
| Sep-98 | 10 | 15 | 10 | | 10 | 10 09/22/98 semiannual 52 |
| May-99 | 10 | 15 | 10 | | 10 | 10 05/11/99 semiannual 53 |
| Oct-99 | 10 | 15 | 10 | | 10 | 10 10/05/99 semiannual 54 |
| May-00 | 10 | 15 | 10 | | 10 | 10 05/16/00 semiannual 55 |
| Nov-00 | 5 | 15 | 5 | | 7.5 | 11/28/00 semiannual 56 |
| Apr-01 | 5 | 15 | 5 | | 5 | 5 04/04/01 semiannual 57 |
| Oct-01 | 5 | 15 | 5 | | 5 | 5 10/18/01 semiannual 58 |
| Apr-02 | 5 | 15 | 5 | | 5 | 5 04/18/02 semiannual 59 |
| Oct-02 | 5 | 15 | 5 | | 5 | 5 10/03/02 semiannual 60 |
| Apr-03 | 5 | 15 | 5 | | 5 | 5 04/25/03 semiannual 61 |
| Oct-03 | 5 | 15 | 5 | | 5 | 5 10/03/03 semiannual 62 |
| Apr-04 | 5 | 15 | 5 | | 5 | 5 04/01/04 semiannual 63 |
| Oct-04 | 5 | 15 | 5 | | 5 | 5 10/19/04 semiannual 64 |
| Apr-05 | 5 | 15 | 5 | | 5 | 5 04/22/05 semiannual 65 |
| Oct-05 | 5 | 15 | 5 | | 5 | 5 10/07/05 semiannual 66 |
| May-06 | 6.2 | 15 | 5 | | 5.6 | 5.6 05/11/06 semiannual 67 |
| Oct-06 | 8 | 15 | 5 | | 7.1 | 7.1 10/18/06 semiannual 68 |
| May-07 | 8 | 15 | 5 | | 8 | 8 05/22/07 semiannual 69 |
| Oct-07 | 8 | 15 | 5 | | 8 | 8 10/25/07 semiannual 70 |
| May-08 | 8 | 15 | 5 | | 8 | 8 05/13/08 semiannual 71 |
| Oct-08 | 8.1 | 15 | 5 | | 8.05 | 8.05 10/18/08 semiannual 72 |
| May-09 | 5 | 15 | 5 | | 6.55 | 6.55 05/12/09 semiannual 73 |
| Oct-09 | 5 | 15 | 5 | | 5 | 5 10/29/09 semiannual 74 |
| May-10 | 5 | 15 | 5 | | 5 | 5 05/20/10 semiannual 75 |
| Oct-10 | 5 | 15 | 5 | | 5 | 5 10/18/10 semiannual 76 |
| Jun-11 | 2 | 15 | 2 | | 3.5 | 3.5 06/02/11 semiannual 77 |
| Oct-11 | 5 | 15 | 5 | | 3.5 | 3.5 10/12/11 semiannual 78 |
| May-12 | 2 | 15 | 2 | | 3.5 | 3.5 05/18/12 semiannual 79 |
| Oct-12 | 2 | 15 | 2 | | 2 | 2 10/11/12 semiannual 80 |
| May-13 | 2 | 15 | 2 | | 2 | 2 05/17/13 semiannual 81 |
| Oct-13 | 2 | 15 | 2 | | 2 | 2 10/11/13 semiannual 82 |
| May-14 | 10 | 15 | 10 | | 6 | 6 05/05/14 semiannual 83 |
| Oct-14 | 2 | 15 | 2 | | 6 | 6 10/06/14 semiannual 84 |

MOVING AVERAGE TREND TEST

VDM-11

VINYL CHLORIDE



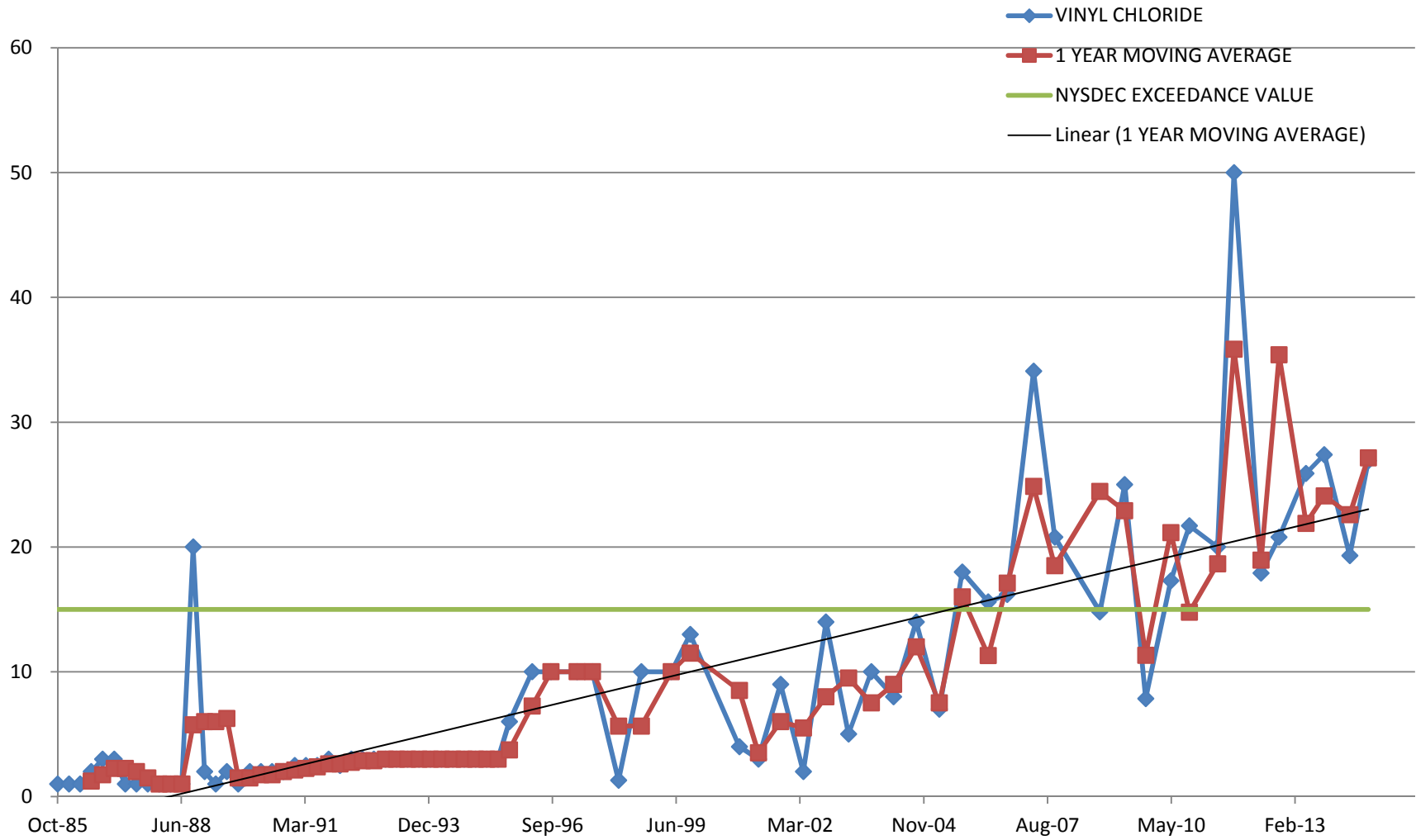
WELL VDM - 11 : VINYL CHLORIDE

| SAMPLING EVENT NO. | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | | | |
|--------------------------|-------------|------------------------|-----------------|-------------------|---------------|--------------|------------|------------|----|
| - | - | - | - | - | - | - | | | |
| Jan-87 | | 15 | 2 | TOTAL STD 3.3934 | | 1 | | | |
| Apr-87 | | 15 | 2 | TOTAL Sx 0.4177 | | 2 | | | |
| Jul-87 | 5 | 15 | 2 | TOTAL MEAN 4.8507 | | 3 | | | |
| Oct-87 | 5 | 15 | 2 | TOTAL N 67 | | 4 | | | |
| Jan-88 | 5 | 15 | 2 | TOTAL df 66 | | 5 | | | |
| Apr-88 | 5 | 15 | 2 | | 5.00 | 6 | | | |
| Jul-88 | 1 | 15 | 2 | | 4.00 | 7 | | | |
| Oct-88 | 1 | 15 | 2 | | 3.00 | 8 | | | |
| Jan-89 | 1 | 15 | 2 | | 2.00 | 9 | | | |
| Apr-89 | 1 | 15 | 2 | | 1.00 | 10 | | | |
| Jul-89 | 3 | 15 | 2 | | 1.50 | 11 | | | |
| Oct-89 | 1 | 15 | 2 | | 1.50 | 12 | | | |
| Jan-90 | 1 | 15 | 2 | | 1.50 | 13 | | | |
| Apr-90 | 1 | 15 | 2 | | 1.50 | 14 | | | |
| Jul-90 | 1 | 15 | 2 | | 1.00 | 15 | | | |
| Oct-90 | 20 | 15 | 2 | | 5.75 | 16 | | | |
| Jan-91 | 2 | 15 | 2 | | 6.00 | 17 | | | |
| Apr-91 | 2 | 15 | 2 | | 6.25 | 18 | | | |
| Jul-91 | 2 | 15 | 2 | | 6.50 | 19 | | | |
| Oct-91 | 2 | 15 | 2 | | 2.00 | 20 | | | |
| Jan-92 | 2 | 15 | 2 | | 2.00 | 21 | | | |
| Apr-92 | 2 | 15 | 2 | | 2.00 | 22 | | | |
| Jul-92 | 2.5 | 15 | 2 | | 2.13 | 23 | | | |
| Oct-92 | 2.5 | 15 | 2 | | 2.25 | 24 | | | |
| Jan-93 | 2.5 | 15 | 2 | | 2.38 | 25 | | | |
| Apr-93 | 3 | 15 | 2 | | 2.63 | 26 | | | |
| Jul-93 | 2.5 | 15 | 2 | | 2.63 | 27 | | | |
| Oct-93 | 3 | 15 | 2 | | 2.75 | 28 | | | |
| Jan-94 | 3 | 15 | 2 | | 2.88 | 29 | | | |
| Apr-94 | 3 | 15 | 2 | | 2.88 | 30 | | | |
| Jul-94 | 3 | 15 | 2 | | 3.00 | 31 | | | |
| Oct-94 | 3 | 15 | 2 | | 3.00 | 32 | | | |
| Jan-95 | 3 | 15 | 2 | | 3.00 | 33 | | | |
| Apr-95 | 3 | 15 | 2 | | 3.00 | 34 | | | |
| Jul-95 | 3 | 15 | 2 | | 3.00 | 35 | | | |
| Oct-95 | 3 | 15 | 3 | | 3.00 | 36 | | | |
| Apr-96 | 10 | 15 | 10 | | 6.5 | 37 | | | |
| Sep-96 | 10 | 15 | 10 | | 10 | 10 | 9/17/1996 | semiannual | 38 |
| Apr-97 | 10 | 15 | 10 | | 10 | 10 | 4/3/1997 | semiannual | 39 |
| Aug-97 | 10 | 15 | 10 | | 10 | 10 | 8/27/1997 | semiannual | 40 |
| Mar-98 | 10 | 15 | 10 | | 10 | 10 | 3/24/1998 | semiannual | 41 |
| Sep-98 | 10 | 15 | 10 | | 10 | 10 | 9/22/1998 | semiannual | 42 |
| May-99 | 10 | 15 | 10 | | 10 | 10 | 5/11/1999 | semiannual | 43 |
| Oct-99 | 10 | 15 | 10 | | 10 | 10 | 10/5/1999 | semiannual | 44 |
| May-00 | 10 | 15 | 10 | | 10 | 10 | 5/16/2000 | semiannual | 45 |
| Nov-00 | 5 | 15 | 5 | | 7.5 | 7.5 | 11/28/2000 | semiannual | 46 |
| Apr-01 | 5 | 15 | 5 | | 5 | 5 | 4/4/2001 | semiannual | 47 |
| Oct-01 | 5 | 15 | 5 | | 5 | 5 | 10/18/2001 | semiannual | 48 |
| Apr-02 | 5 | 15 | 5 | | 5 | 5 | 4/18/2002 | semiannual | 49 |
| Oct-02 | 5 | 15 | 5 | | 5 | 5 | 10/3/2002 | semiannual | 50 |
| Apr-03 | 5 | 15 | 5 | | 5 | 5 | 4/25/2003 | semiannual | 51 |
| Oct-03 | 5 | 15 | 5 | | 5 | 5 | 10/3/2003 | semiannual | 52 |
| Apr-04 | 5 | 15 | 5 | | 5 | 5 | 4/1/2004 | semiannual | 53 |
| Oct-04 | 5 | 15 | 5 | | 5 | 5 | 10/19/2004 | semiannual | 54 |
| Apr-05 | 5 | 15 | 5 | | 5 | 5 | 4/22/2005 | semiannual | 55 |
| Oct-05 | 5 | 15 | 5 | | 5 | 5 | 10/7/2005 | semiannual | 56 |
| May-06 | 8 | 15 | 5 | | 6.5 | 6.5 | 5/11/2006 | semiannual | 57 |
| Oct-06 | 8 | 15 | 5 | | 8 | 8 | 10/18/2006 | semiannual | 58 |
| May-07 | 8 | 15 | 5 | | 8 | 8 | 5/22/2007 | semiannual | 59 |
| Oct-07 | 8 | 15 | 5 | | 8 | 8 | 10/25/2007 | semiannual | 60 |
| May-08 | 8 | 15 | 5 | | 8 | 8 | 5/13/2008 | semiannual | 61 |
| Oct-08 | 8 | 15 | 5 | | 8 | 8 | 10/23/2008 | semiannual | 62 |
| May-09 | 5 | 15 | 5 | | 6.5 | 6.5 | 5/12/2009 | semiannual | 63 |
| Oct-09 | 5 | 15 | 5 | | 5 | 5 | 10/29/2009 | semiannual | 64 |
| May-10 | 5 | 15 | 5 | | 5 | 5 | 5/20/2010 | semiannual | 65 |
| Oct-10 | 5 | 15 | 5 | | 5 | 5 | 10/18/2010 | semiannual | 66 |
| Jun-11 | 2 | 15 | 2 | | 3.5 | 3.5 | 6/2/2011 | semiannual | 67 |
| Oct-11 | 5 | 15 | 5 | | 3.5 | 3.5 | 10/12/2011 | semiannual | 68 |
| May-12 | 2 | 15 | 2 | | 3.5 | 3.5 | 5/18/2012 | semiannual | 69 |
| Oct-12 | 2 | 15 | 2 | | 2 | 2 | 10/11/2012 | semiannual | 70 |
| May-13 | 2 | 15 | 2 | | 2 | 2 | 5/17/2013 | semiannual | 71 |
| Oct-13 | 2 | 15 | 2 | | 2 | 2 | 10/11/2013 | semiannual | 72 |
| May-14 | 10 | 15 | 10 | | 6 | 6 | 5/5/2014 | semiannual | 73 |
| Oct-14 | 2 | 15 | 2 | | 6 | 6 | 10/6/2014 | semiannual | 74 |

MOVING AVERAGE TREND TEST

VDM-14

VINYL CHLORIDE



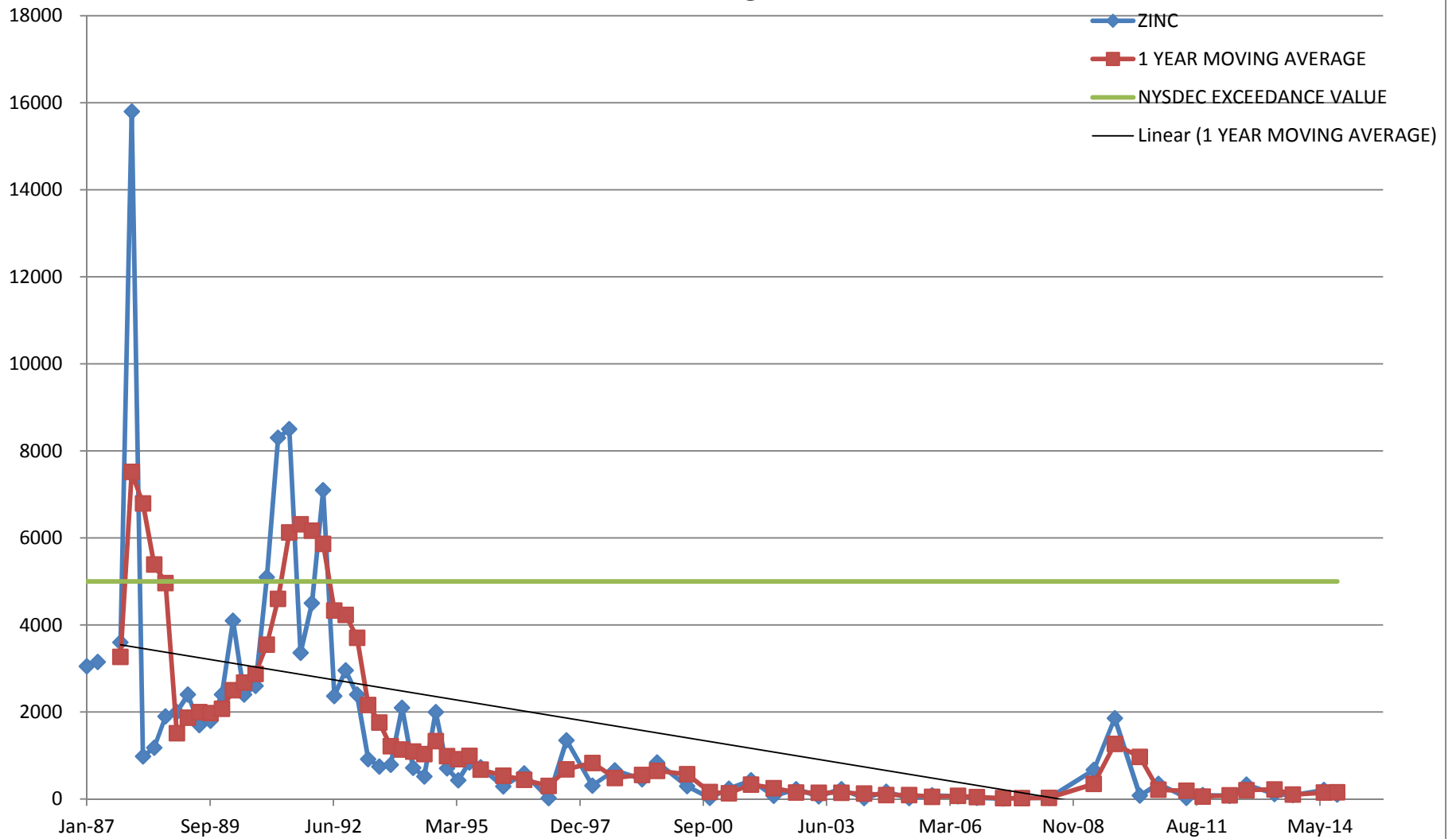
WELL VDM - 14 : VINYL CHLORIDE

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. | | |
|-------------------|-------------|------------------------|-----------------|--------------------|---------------|--------------|-----------------------|----|
| Oct-85 | 1 | 15 | 2 | TOTAL STI 8.669798 | - | 1 | | |
| Jan-86 | 1 | 15 | 2 | TOTAL Sx 1.028916 | - | 2 | | |
| Apr-86 | 1 | 15 | 2 | TOTAL MEA 7.521528 | - | 3 | | |
| Jul-86 | 2 | 15 | 2 | TOTAL N 72 | 1.25 | 4 | | |
| Oct-86 | 3 | 15 | 2 | TOTAL df 71 | 1.75 | 5 | | |
| Jan-87 | 3 | 15 | 2 | | 2.25 | 6 | | |
| Apr-87 | 1 | 15 | 2 | | 2.25 | 7 | | |
| Jul-87 | 1 | 15 | 2 | | 2.00 | 8 | | |
| Oct-87 | 1 | 15 | 2 | | 1.50 | 9 | | |
| Jan-88 | 1 | 15 | 2 | | 1.00 | 10 | | |
| Apr-88 | 1 | 15 | 2 | | 1.00 | 11 | | |
| Jul-88 | 1 | 15 | 2 | | 1.00 | 12 | | |
| Oct-88 | 20 | 15 | 2 | | 5.75 | 13 | | |
| Jan-89 | 2 | 15 | 2 | | 6.00 | 14 | | |
| Apr-89 | 1 | 15 | 2 | | 6.00 | 15 | | |
| Jul-89 | 2 | 15 | 2 | | 6.25 | 16 | | |
| Oct-89 | 1 | 15 | 2 | | 1.50 | 17 | | |
| Jan-90 | 2 | 15 | 2 | | 1.50 | 18 | | |
| Apr-90 | 2 | 15 | 2 | | 1.75 | 19 | | |
| Jul-90 | 2 | 15 | 2 | | 1.75 | 20 | | |
| Oct-90 | 2 | 15 | 2 | | 2.00 | 21 | | |
| Jan-91 | 2.5 | 15 | 2 | | 2.13 | 22 | | |
| Apr-91 | 2.5 | 15 | 2 | | 2.25 | 23 | | |
| Jul-91 | 2.5 | 15 | 2 | | 2.38 | 24 | | |
| Oct-91 | 3 | 15 | 2 | | 2.63 | 25 | | |
| Jan-92 | 2.5 | 15 | 2 | | 2.63 | 26 | | |
| Apr-92 | 3 | 15 | 2 | | 2.75 | 27 | | |
| Jul-92 | 3 | 15 | 2 | | 2.88 | 28 | | |
| Oct-92 | 3 | 15 | 2 | | 2.88 | 29 | | |
| Jan-93 | 3 | 15 | 2 | | 3.00 | 30 | | |
| Apr-93 | 3 | 15 | 2 | | 3.00 | 31 | | |
| Jul-93 | 3 | 15 | 2 | | 3.00 | 32 | | |
| Oct-93 | 3 | 15 | 2 | | 3.00 | 33 | | |
| Jan-94 | 3 | 15 | 2 | | 3.00 | 34 | | |
| Apr-94 | 3 | 15 | 2 | | 3.00 | 35 | | |
| Jul-94 | 3 | 15 | 2 | | 3.00 | 36 | | |
| Oct-94 | 3 | 15 | 2 | | 3.00 | 37 | | |
| Jan-95 | 3 | 15 | 2 | | 3.00 | 38 | | |
| Apr-95 | 3 | 15 | 2 | | 3.00 | 39 | | |
| Jul-95 | 3 | 15 | 2 | | 3.00 | 40 | | |
| Oct-95 | 6 | 15 | 6 | | 3.75 | 41 | | |
| Apr-96 | 10 | 15 | 10 | | 7.25 | 42 | | |
| Sep-96 | 10 | 15 | 10 | | 10 | 10 | 9/17/1996 semiannual | 43 |
| Apr-97 | 10 | 15 | 10 | | 10 | 10 | 4/3/1997 semiannual | 44 |
| Aug-97 | 10 | 15 | 100 | | 10 | 10 | 8/27/1997 semiannual | 45 |
| Mar-98 | 1.3 | 15 | 10 | | 5.65 | 5.65 | 3/24/1998 semiannual | 46 |
| Sep-98 | 10 | 15 | 10 | | 5.65 | 5.65 | 9/22/1998 semiannual | 47 |
| May-99 | 10 | 15 | 10 | | 10 | 10 | 5/11/1999 semiannual | 48 |
| Oct-99 | 13 | 15 | 10 | | 11.5 | 11.5 | 10/5/1999 semiannual | 49 |
| Nov-00 | 4 | 15 | 5 | | 8.5 | 8.5 | 11/28/2000 semiannual | 50 |
| Apr-01 | 3 | 15 | 5 | | 3.5 | 3.5 | 4/4/2001 semiannual | 51 |
| Oct-01 | 9 | 15 | 5 | | 6 | 6 | 10/18/2001 semiannual | 52 |
| Apr-02 | 2 | 15 | 5 | | 5.5 | 5.5 | 4/18/2002 semiannual | 53 |
| Oct-02 | 14 | 15 | 25 | | 8 | 8 | 10/3/2002 semiannual | 54 |
| Apr-03 | 5 | 15 | 10 | | 9.5 | 9.5 | 4/25/2003 semiannual | 55 |
| Oct-03 | 10 | 15 | 5 | | 7.5 | 7.5 | 10/3/2003 semiannual | 56 |
| Apr-04 | 8 | 15 | 10 | | 9 | 9 | 4/1/2004 semiannual | 57 |
| Oct-04 | 14 | 15 | 10 | | 12 | 12 | 10/19/2004 semiannual | 58 |
| Apr-05 | 7 | 15 | 10 | | 7.5 | 7.5 | 4/22/2005 semiannual | 59 |
| Oct-05 | 18 | 15 | 10 | | 16 | 16 | 10/7/2005 semiannual | 60 |
| May-06 | 15.6 | 15 | 10 | | 11.3 | 11.3 | 5/11/2006 semiannual | 61 |
| Oct-06 | 16.2 | 15 | 10 | | 17.1 | 17.1 | 10/18/2006 semiannual | 62 |
| May-07 | 34.1 | 15 | 10 | | 24.85 | 24.85 | 5/22/2007 semiannual | 63 |
| Oct-07 | 20.8 | 15 | 10 | | 18.5 | 18.5 | 10/25/2007 semiannual | 64 |
| Oct-08 | 14.8 | 15 | 10 | | 24.45 | 24.45 | 10/23/2008 semiannual | 65 |
| May-09 | 25 | 15 | 25 | | 22.9 | 22.9 | 5/12/2009 semiannual | 66 |
| Oct-09 | 7.85 | 15 | 25 | | 11.325 | 11.325 | 10/29/2009 semiannual | 67 |
| May-10 | 17.3 | 15 | 25 | | 21.15 | 21.15 | 5/20/2010 semiannual | 68 |
| Oct-10 | 21.7 | 15 | 25 | | 14.775 | 14.775 | 10/18/2010 semiannual | 69 |
| Jun-11 | 20 | 15 | 20 | | 18.65 | 18.65 | 6/2/2011 semiannual | 70 |
| Oct-11 | 50 | 15 | 50 | | 35.85 | 35.85 | 10/12/2011 semiannual | 71 |
| May-12 | 17.9 | 15 | 2 | | 18.95 | 18.95 | 5/18/2012 semiannual | 72 |
| Oct-12 | 20.8 | 15 | 2 | | 35.4 | 35.4 | 10/11/2012 semiannual | 73 |
| May-13 | 25.9 | 15 | 2 | | 21.9 | 21.9 | 5/17/2013 semiannual | 74 |
| Oct-13 | 27.4 | 15 | 2 | | 24.1 | 24.1 | 10/11/2013 semiannual | 75 |
| May-14 | 19.3 | 15 | 2 | | 22.6 | 22.6 | 5/5/2014 semiannual | 76 |
| Oct-14 | 26.9 | 15 | 2 | | 27.15 | 27.15 | 10/2/2014 semiannual | 77 |

MOVING AVERAGE TREND TEST

VDM-9

ZINC



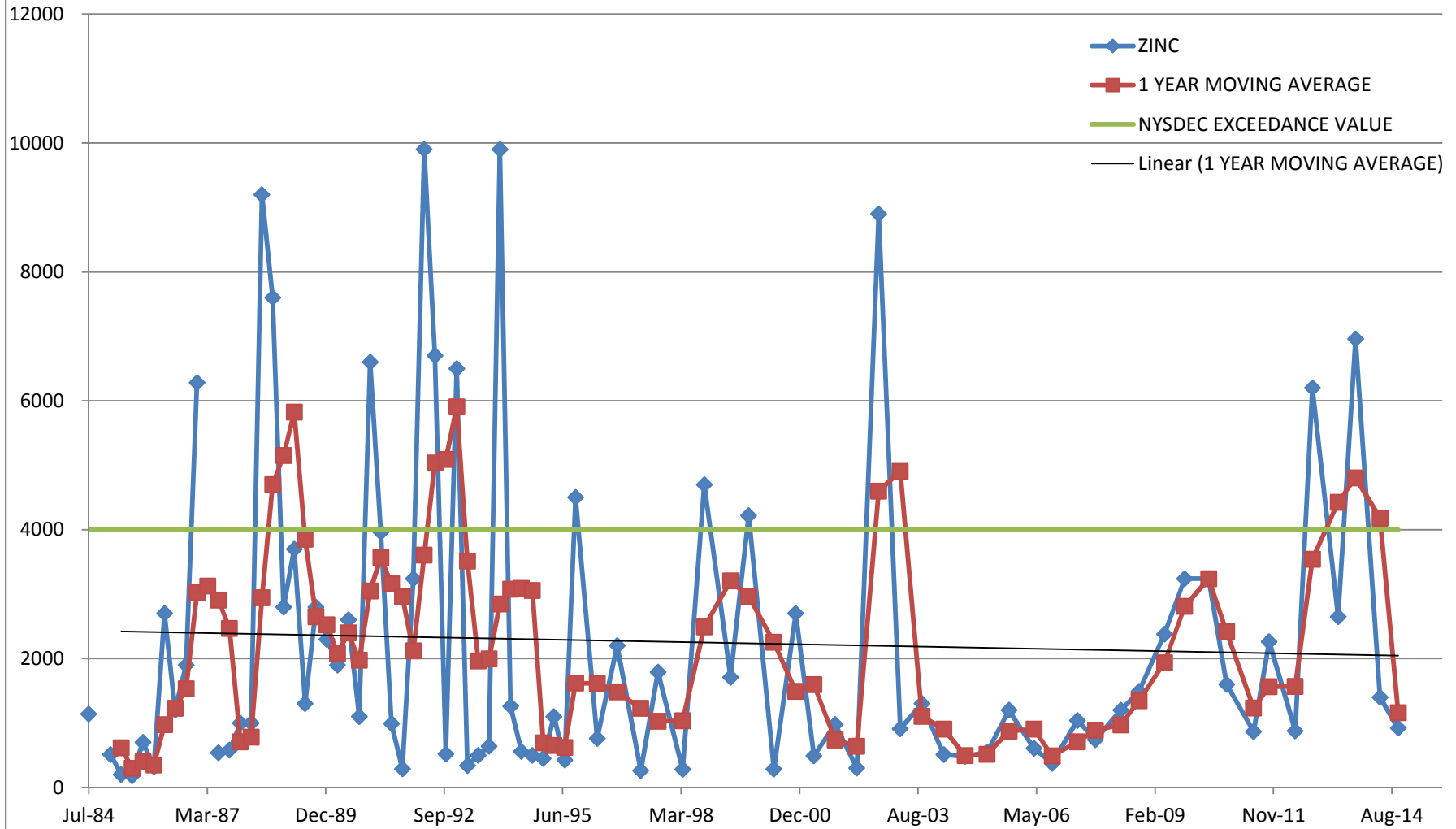
WELL VDM-9 : ZINC

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|---------------------|---------------|--------------|
| Jan-87 | 3050 | 5000 | 300 | TOTAL STD 2561.8 | | 1 |
| Apr-87 | 3150 | 5000 | 300 | TOTAL Sx 317.7522 | | 2 |
| Jul-87 | | 5000 | 300 | TOTAL MEAN 1724.439 | | 3 |
| Oct-87 | 3600 | 5000 | 300 | TOTAL N 66 | 3266.667 | 4 |
| Jan-88 | 15800 | 5000 | 300 | TOTAL df 65 | 7516.667 | 5 |
| Apr-88 | 980 | 5000 | 300 | | 6793.333 | 6 |
| Jul-88 | 1180 | 5000 | 300 | | 5390 | 7 |
| Oct-88 | 1900 | 5000 | 300 | | 4965 | 8 |
| Jan-89 | 2000 | 5000 | 300 | | 1515 | 9 |
| Apr-89 | 2400 | 5000 | 300 | | 1870 | 10 |
| Jul-89 | 1700 | 5000 | 300 | | 2000 | 11 |
| Oct-89 | 1800 | 5000 | 300 | | 1975 | 12 |
| Jan-90 | 2400 | 5000 | 300 | | 2075 | 13 |
| Apr-90 | 4100 | 5000 | 300 | | 2500 | 14 |
| Jul-90 | 2400 | 5000 | 300 | | 2675 | 15 |
| Oct-90 | 2600 | 5000 | 300 | | 2875 | 16 |
| Jan-91 | 5100 | 5000 | 300 | | 3550 | 17 |
| Apr-91 | 8300 | 5000 | 300 | | 4600 | 18 |
| Jul-91 | 8500 | 5000 | 300 | | 6125 | 19 |
| Oct-91 | 3360 | 5000 | 300 | | 6315 | 20 |
| Jan-92 | 4500 | 5000 | 300 | | 6165 | 21 |
| Apr-92 | 7100 | 5000 | 300 | | 5865 | 22 |
| Jul-92 | 2370 | 5000 | 300 | | 4332.5 | 23 |
| Oct-92 | 2960 | 5000 | 300 | | 4232.5 | 24 |
| Jan-93 | 2400 | 5000 | 300 | | 3707.5 | 25 |
| Apr-93 | 920 | 5000 | 300 | | 2162.5 | 26 |
| Jul-93 | 750 | 5000 | 300 | | 1757.5 | 27 |
| Oct-93 | 790 | 5000 | 300 | | 1215 | 28 |
| Jan-94 | 2100 | 5000 | 300 | | 1140 | 29 |
| Apr-94 | 720 | 5000 | 300 | | 1090 | 30 |
| Jul-94 | 520 | 5000 | 300 | | 1032.5 | 31 |
| Oct-94 | 2000 | 5000 | 300 | | 1335 | 32 |
| Jan-95 | 707 | 5000 | 300 | | 986.75 | 33 |
| Apr-95 | 430 | 5000 | 300 | | 914.25 | 34 |
| Jul-95 | 842 | 5000 | 300 | | 994.75 | 35 |
| Oct-95 | 730 | 5000 | 20 | | 677.25 | 36 |
| Apr-96 | 293 | 5000 | 20 | | 539.5 | 37 |
| Sep-96 | 590 | 5000 | 20 | | 441.5 | 38 |
| Apr-97 | 20 | 5000 | 20 | | 305 | 39 |
| Aug-97 | 1350 | 5000 | 20 | | 685 | 40 |
| Mar-98 | 310 | 5000 | 10 | | 830 | 41 |
| Sep-98 | 660 | 5000 | | | 485 | 42 |
| May-99 | 455 | 5000 | 16 | | 557.5 | 43 |
| Sep-99 | 844 | 5000 | 16 | | 649.5 | 44 |
| May-00 | 295 | 5000 | 16 | | 569.5 | 45 |
| Nov-00 | 26 | 5000 | 26 | | 160.5 | 46 |
| Apr-01 | 240 | 5000 | 26 | | 133 | 47 |
| Oct-01 | 430 | 5000 | 20 | | 335 | 48 |
| Apr-02 | 75 | 5000 | 20 | | 252.5 | 49 |
| Oct-02 | 230 | 5000 | 20 | | 152.5 | 50 |
| Apr-03 | 65 | 5000 | 20 | | 147.5 | 51 |
| Oct-03 | 230 | 5000 | 20 | | 147.5 | 52 |
| Apr-04 | 20 | 5000 | 20 | | 125 | 53 |
| Oct-04 | 170 | 5000 | 20 | | 95 | 54 |
| Apr-05 | 20 | 5000 | 20 | | 95 | 55 |
| Oct-05 | 86 | 5000 | 20 | | 53 | 56 |
| May-06 | 64 | 5000 | 20 | | 75 | 57 |
| Oct-06 | 31 | 5000 | 20 | | 47.5 | 58 |
| May-07 | 10 | 5000 | 20 | | 20.5 | 59 |
| Oct-07 | 31 | 5000 | 20 | | 20.5 | 60 |
| May-08 | 28 | 5000 | 20 | | 29.5 | 61 |
| May-09 | 671 | 5000 | 20 | | 349.5 | 63 |
| Oct-09 | 1860 | 5000 | 20 | | 1265.5 | 64 |
| May-10 | 79 | 5000 | 20 | | 969.5 | 65 |
| Oct-10 | 350 | 5000 | 20 | | 214.5 | 66 |
| Jun-11 | 30 | 5000 | 20 | | 190 | 67 |
| Oct-11 | 91 | 5000 | 20 | | 60.5 | 68 |
| May-12 | 78 | 5000 | 10 | | 84.5 | 69 |
| Oct-12 | 331 | 5000 | 1280 | | 204.5 | 70 |
| May-13 | 116 | 5000 | 1000 | | 223.5 | 71 |
| Oct-13 | 90 | 5000 | 880 | | 103 | 72 |
| Jun-14 | 208 | 5000 | 544 | | 149 | 73 |
| Oct-14 | 103 | 5000 | 21 | | 155.5 | 74 |

MOVING AVERAGE TREND TEST

VDM-10

ZINC



WELL VDM - 10 : ZINC

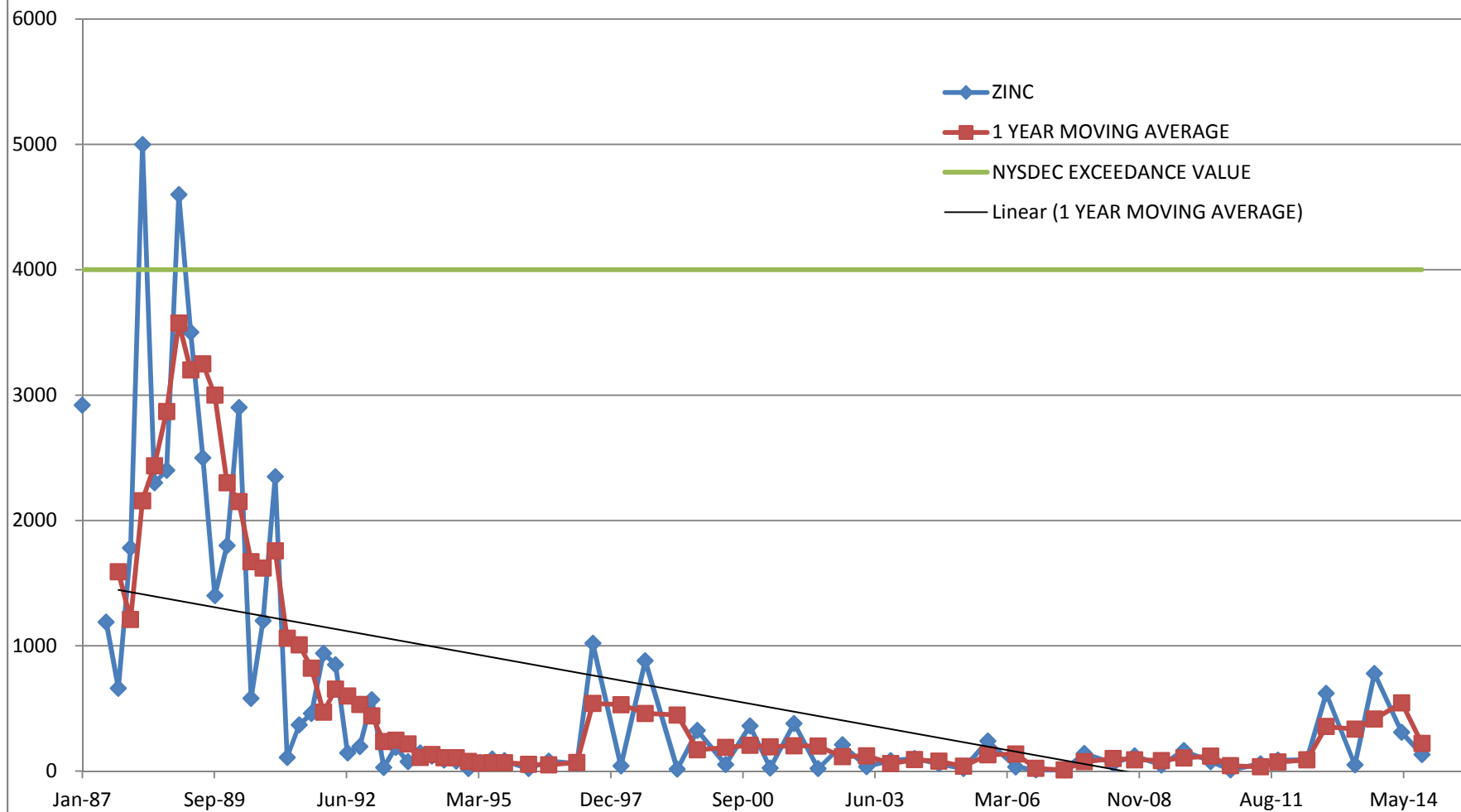
WELL VDM - 10 : ZINC

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETEC LIMIT | STATISTICS | | MOVING AVERAGE | SAMPLING EVENT NO. |
|-------------------|-------------|------------------------|----------------|------------|-----------|-------------------|--------------------------|
| | | | | TOTAL STD | TOTAL Sx | | |
| Jul-84 | 1140 | 4000 | 300 | TOTAL STD | 2429.3136 | | 1 |
| Oct-84 | | 4000 | 300 | TOTAL Sx | 280.51297 | | 2 |
| Jan-85 | 510 | 4000 | 300 | TOTAL MEAN | 2184.0921 | | 3 |
| Apr-85 | 200 | 4000 | 300 | TOTAL N | 76 | 616.7 | 4 |
| Jul-85 | 180 | 4000 | 300 | TOTAL df | 75 | 296.7 | 5 |
| Oct-85 | 700 | 4000 | 300 | | | 397.5 | 6 |
| Jan-86 | 320 | 4000 | 300 | | | 350.0 | 7 |
| Apr-86 | 2700 | 4000 | 300 | | | 975.0 | 8 |
| Jul-86 | 1200 | 4000 | 300 | | | 1230.0 | 9 |
| Oct-86 | 1900 | 4000 | 300 | | | 1530.0 | 10 |
| Jan-87 | 6280 | 4000 | 300 | | | 3020.0 | 11 |
| Apr-87 | | 4000 | 300 | | | 3126.7 | 12 |
| Jul-87 | 540 | 4000 | 300 | | | 2906.7 | 13 |
| Oct-87 | 580 | 4000 | 300 | | | 2466.7 | 14 |
| Jan-88 | 1000 | 4000 | 300 | | | 706.7 | 15 |
| Apr-88 | 1000 | 4000 | 300 | | | 780.0 | 16 |
| Jul-88 | 9200 | 4000 | 300 | | | 2945.0 | 17 |
| Oct-88 | 7600 | 4000 | 300 | | | 4700.0 | 18 |
| Jan-89 | 2800 | 4000 | 300 | | | 5150.0 | 19 |
| Apr-89 | 3700 | 4000 | 300 | | | 5825.0 | 20 |
| Jul-89 | 1300 | 4000 | 300 | | | 3850.0 | 21 |
| Oct-89 | 2800 | 4000 | 300 | | | 2650.0 | 22 |
| Jan-90 | 2300 | 4000 | 300 | | | 2525.0 | 23 |
| Apr-90 | 1900 | 4000 | 300 | | | 2075.0 | 24 |
| Jul-90 | 2600 | 4000 | 300 | | | 2400.0 | 25 |
| Oct-90 | 1100 | 4000 | 300 | | | 1975.0 | 26 |
| Jan-91 | 6600 | 4000 | 300 | | | 3050.0 | 27 |
| Apr-91 | 3960 | 4000 | 300 | | | 3565.0 | 28 |
| Jul-91 | 990 | 4000 | 300 | | | 3162.5 | 29 |
| Oct-91 | 290 | 4000 | 300 | | | 2960.0 | 30 |
| Jan-92 | 3240 | 4000 | 300 | | | 2120.0 | 31 |
| Apr-92 | 9900 | 4000 | 300 | | | 3605.0 | 32 |
| Jul-92 | 6700 | 4000 | 300 | | | 5032.5 | 33 |
| Oct-92 | 517 | 4000 | 300 | | | 5089.3 | 34 |
| Jan-93 | 6500 | 4000 | 300 | | | 5904.3 | 35 |
| Apr-93 | 340 | 4000 | 300 | | | 3514.3 | 36 |
| Jul-93 | 500 | 4000 | 300 | | | 1964.3 | 37 |
| Oct-93 | 640 | 4000 | 300 | | | 1995.0 | 38 |
| Jan-94 | 9900 | 4000 | 300 | | | 2845.0 | 39 |
| Apr-94 | 1260 | 4000 | 300 | | | 3075.0 | 40 |
| Jul-94 | 560 | 4000 | 300 | | | 3090.0 | 41 |
| Oct-94 | 500 | 4000 | 300 | | | 3055.0 | 42 |
| Jan-95 | 451 | 4000 | 300 | | | 692.8 | 43 |
| Apr-95 | 1100 | 4000 | 300 | | | 652.8 | 44 |
| Jul-95 | 426 | 4000 | 300 | | | 619.3 | 45 |
| Oct-95 | 4500 | 4000 | 20 | | | 1619.3 | 46 |
| Apr-96 | 762 | 4000 | 20 | | | 1612.50 | 47 |
| Sep-96 | 2200 | 4000 | 20 | | | 1481 | 48 |
| Apr-97 | 260 | 4000 | 20 | | | 1230 | 49 |
| Aug-97 | 1790 | 4000 | 20 | | | 1025 | 50 |
| Mar-98 | 280 | 4000 | 10 | | | 1035 | 51 |
| Sep-98 | 4700 | 4000 | 50 | | | 2490 | 52 |
| May-99 | 1710 | 4000 | 16 | | | 3205 | 53 |
| Oct-99 | 4220 | 4000 | 16 | | | 2965 | 54 |
| May-00 | 284 | 4000 | 16 | | | 2252 | 55 |
| Nov-00 | 2700 | 4000 | 26 | | | 1492 | 56 |
| Apr-01 | 490 | 4000 | 26 | | | 1595 | 57 |
| Oct-01 | 980 | 4000 | 20 | | | 735 | 58 |
| Apr-02 | 300 | 4000 | 20 | | | 640 | 59 |
| Oct-02 | 8900 | 4000 | 200 | | | 4600 | 60 |
| Apr-03 | 910 | 4000 | 200 | | | 4905 | 61 |
| Oct-03 | 1300 | 4000 | 20 | | | 1105 | 62 |
| Apr-04 | 510 | 4000 | 20 | | | 905 | 63 |
| Oct-04 | 480 | 4000 | 20 | | | 495 | 64 |
| Apr-05 | 550 | 4000 | 20 | | | 515 | 65 |
| Oct-05 | 1200 | 4000 | 20 | | | 875 | 66 |
| May-06 | 609 | 4000 | 20 | | | 904.5 | 67 |
| Oct-06 | 374 | 4000 | 20 | | | 491.5 | 68 |
| May-07 | 1040 | 4000 | 20 | | | 707 | 69 |
| Oct-07 | 742 | 4000 | 20 | | | 891 | 70 |
| May-08 | 1200 | 4000 | 20 | | | 971 | 71 |
| Oct-08 | 1490 | 4000 | 20 | | | 1345 | 72 |
| May-09 | 2380 | 4000 | 20 | | | 1935 | 73 |
| Oct-09 | 3240 | 4000 | 20 | | | 2810 | 74 |
| May-10 | 3240 | 4000 | 20 | | | 3240 | 75 |
| Oct-10 | 1600 | 4000 | 20 | | | 2420 | 76 |
| Jun-11 | 866 | 4000 | 20 | | | 1233 | 77 |
| Oct-11 | 2260 | 4000 | 20 | | | 1563 | 78 |
| May-12 | 878 | 4000 | 10 | | | 1569 | 79 |
| Oct-12 | 6200 | 4000 | 1280 | | | 3539 | 80 |
| May-13 | 2650 | 4000 | 1000 | | | 4425 | 81 |
| Oct-13 | 6960 | 4000 | 880 | | | 4805 | 82 |
| May-14 | 1400 | 4000 | 544 | | | 4180 | 83 |
| Oct-14 | 921 | 4000 | 21 | | | 1160.5 | 84 |

MOVING AVERAGE TREND TEST

VDM-11

ZINC



WELL VDM - 11 : ZINC

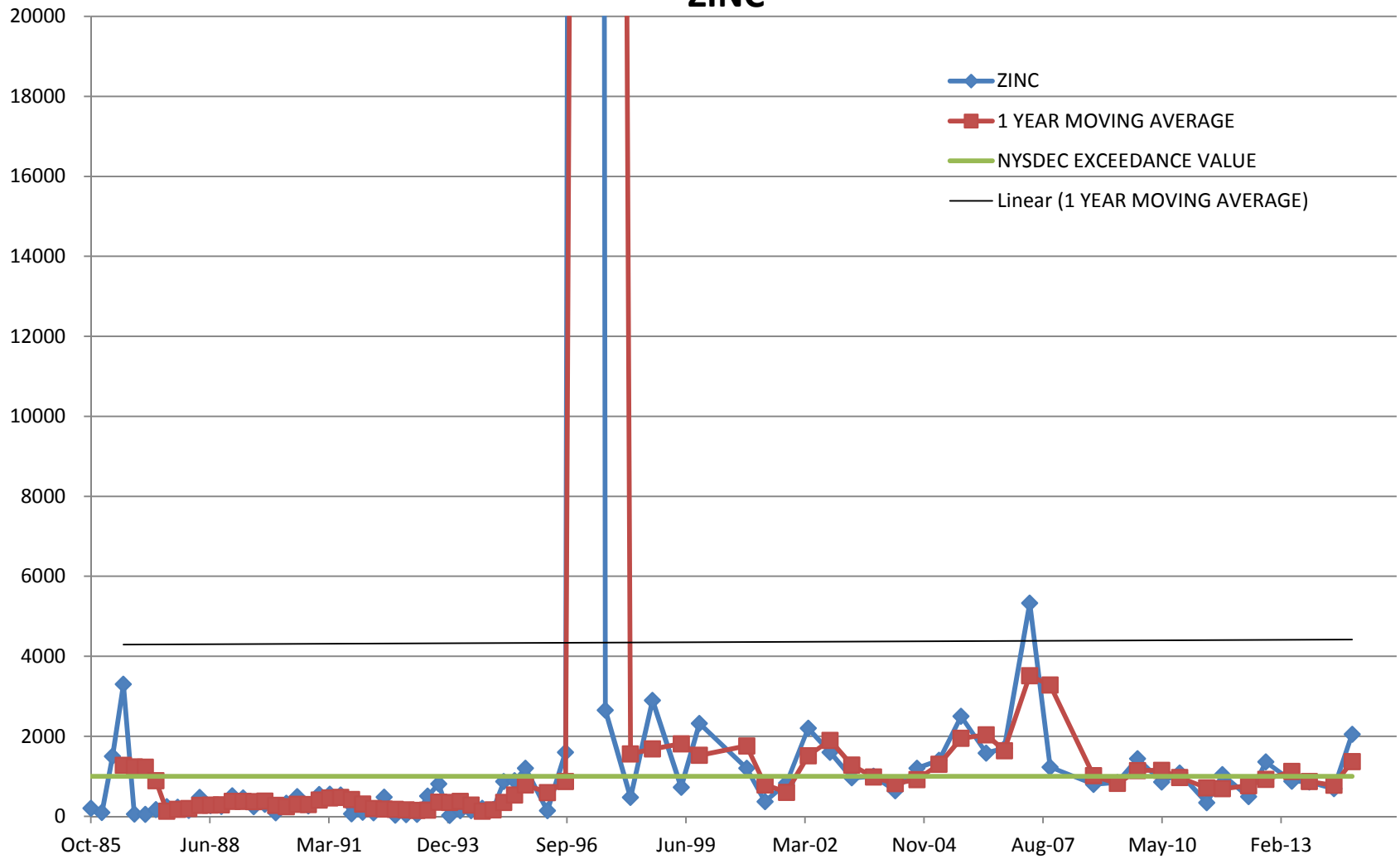
WELL VDM - 11: ZINC

| SAMPLING EVENT NO. | CONCENTRATION PPB | DEC VALUE | DETECTION LIMIT | STATISTICS | MOVING AVERAGE | SAMPLING EVENT NO. |
|--------------------------|----------------------|--------------|--------------------|--------------------|-------------------|--------------------------|
| - | - | - | - | - | - | - |
| Jan-87 | 2920 | 4000 | 300 | TOTAL STD 1110.844 | | 1 |
| Apr-87 | | 4000 | 300 | TOTAL Sx 136.735 | | 2 |
| Jul-87 | 1190 | 4000 | 300 | TOTAL MEAN 695.134 | | 3 |
| Oct-87 | 660 | 4000 | 300 | TOTAL N 67 | 1590.00 | 4 |
| Jan-88 | 1780 | 4000 | 300 | TOTAL df 66 | 1210.00 | 5 |
| Apr-88 | 5000 | 4000 | 300 | | 2157.50 | 6 |
| Jul-88 | 2300 | 4000 | 300 | | 2435.00 | 7 |
| Oct-88 | 2400 | 4000 | 300 | | 2870.00 | 8 |
| Jan-89 | 4600 | 4000 | 300 | | 3575.00 | 9 |
| Apr-89 | 3500 | 4000 | 300 | | 3200.00 | 10 |
| Jul-89 | 2500 | 4000 | 300 | | 3250.00 | 11 |
| Oct-89 | 1400 | 4000 | 300 | | 3000.00 | 12 |
| Jan-90 | 1800 | 4000 | 300 | | 2300.00 | 13 |
| Apr-90 | 2900 | 4000 | 300 | | 2150.00 | 14 |
| Jul-90 | 580 | 4000 | 300 | | 1670.00 | 15 |
| Oct-90 | 1200 | 4000 | 300 | | 1620.00 | 16 |
| Jan-91 | 2350 | 4000 | 300 | | 1757.50 | 17 |
| Apr-91 | 110 | 4000 | 300 | | 1060.00 | 18 |
| Jul-91 | 370 | 4000 | 300 | | 1007.50 | 19 |
| Oct-91 | 460 | 4000 | 300 | | 822.50 | 20 |
| Jan-92 | 940 | 4000 | 300 | | 470.00 | 21 |
| Apr-92 | 850 | 4000 | 300 | | 655.00 | 22 |
| Jul-92 | 145 | 4000 | 300 | | 598.75 | 23 |
| Oct-92 | 197 | 4000 | 300 | | 533.00 | 24 |
| Jan-93 | 570 | 4000 | 300 | | 440.50 | 25 |
| Apr-93 | 30 | 4000 | 300 | | 235.50 | 26 |
| Jul-93 | 190 | 4000 | 300 | | 246.75 | 27 |
| Oct-93 | 75 | 4000 | 300 | | 216.25 | 28 |
| Jan-94 | 145 | 4000 | 300 | | 110.00 | 29 |
| Apr-94 | 120 | 4000 | 300 | | 132.50 | 30 |
| Jul-94 | 88 | 4000 | 300 | | 107.00 | 31 |
| Oct-94 | 80 | 4000 | 300 | | 108.25 | 32 |
| Jan-95 | 20 | 4000 | 300 | | 77.00 | 33 |
| Apr-95 | 70 | 4000 | 300 | | 64.50 | 34 |
| Jul-95 | 96 | 4000 | 300 | | 66.50 | 35 |
| Oct-95 | 84 | 4000 | 20 | | 67.50 | 36 |
| Apr-96 | 20 | 4000 | 20 | | 55 | 37 |
| Sep-96 | 80 | 4000 | 20 | | 50 | 38 |
| Apr-97 | 60 | 4000 | 20 | | 70 | 39 |
| Aug-97 | 1020 | 4000 | 20 | | 540 | 40 |
| Mar-98 | 41 | 4000 | 10 | | 530.5 | 41 |
| Sep-98 | 880 | 4000 | 10 | | 460.5 | 42 |
| May-99 | 16 | 4000 | 16 | | 448 | 43 |
| Oct-99 | 325 | 4000 | 16 | | 170.5 | 44 |
| May-00 | 53 | 4000 | 16 | | 189 | 45 |
| Nov-00 | 360 | 4000 | 26 | | 206.5 | 46 |
| Apr-01 | 26 | 4000 | 26 | | 193 | 47 |
| Oct-01 | 380 | 4000 | 20 | | 203 | 48 |
| Apr-02 | 20 | 4000 | 20 | | 200 | 49 |
| Oct-02 | 210 | 4000 | 20 | | 115 | 50 |
| Apr-03 | 36 | 4000 | 20 | | 123 | 51 |
| Oct-03 | 85 | 4000 | 20 | | 60.5 | 52 |
| Apr-04 | 100 | 4000 | 20 | | 92.5 | 53 |
| Oct-04 | 59 | 4000 | 20 | | 79.5 | 54 |
| Apr-05 | 20 | 4000 | 20 | | 39.5 | 55 |
| Oct-05 | 240 | 4000 | 20 | | 130 | 56 |
| May-06 | 34 | 4000 | 20 | | 137 | 57 |
| Oct-06 | 10 | 4000 | 20 | | 22 | 58 |
| May-07 | 10 | 4000 | 20 | | 10 | 59 |
| Oct-07 | 141 | 4000 | 20 | | 75.5 | 60 |
| May-08 | 61 | 4000 | 20 | | 101 | 61 |
| Oct-08 | 122 | 4000 | 20 | | 91.5 | 62 |
| May-09 | 48 | 4000 | 20 | | 85 | 63 |
| Oct-09 | 164 | 4000 | 20 | | 106 | 64 |
| May-10 | 76 | 4000 | 20 | | 120 | 65 |
| Oct-10 | 10 | 4000 | 20 | | 43 | 66 |
| Jun-11 | 59 | 4000 | 20 | | 34.5 | 67 |
| Oct-11 | 88 | 4000 | 20 | | 73.5 | 68 |
| May-12 | 92 | 4000 | 20 | | 90 | 69 |
| Oct-12 | 620 | 4000 | 1280 | | 356 | 70 |
| May-13 | 50 | 4000 | 1000 | | 335 | 71 |
| Oct-13 | 780 | 4000 | 880 | | 415 | 72 |
| May-14 | 310 | 4000 | 544 | | 545 | 73 |
| Oct-14 | 132 | 4000 | 21 | | 221 | 74 |

MOVING AVERAGE TREND TEST

VDM-14

ZINC



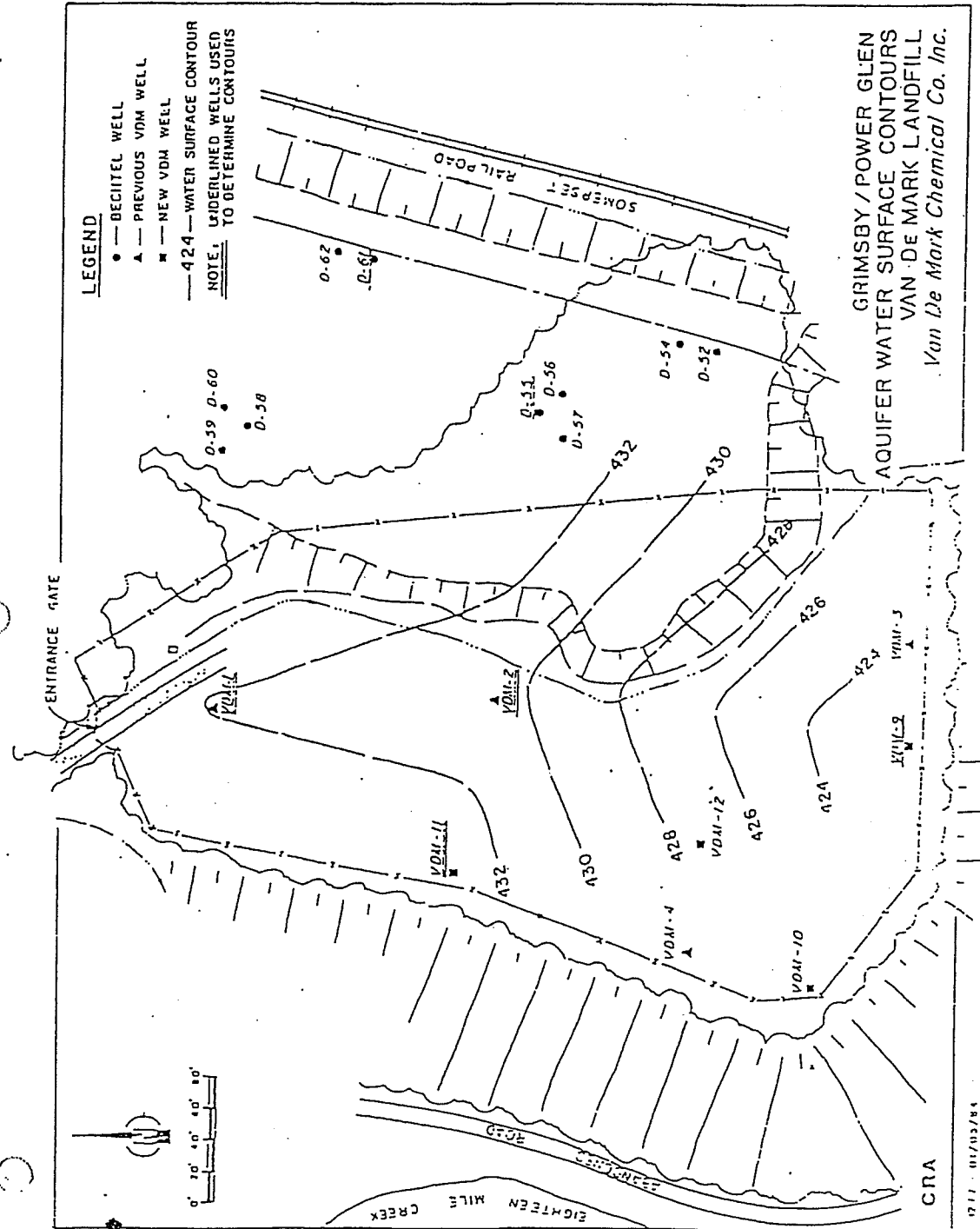
WELL VDM - 14 : ZINC

| SAMPLING EVENT | CONC PPB | DEC EXCEED VALUE | DETECT LIMIT | STATISTICS | MOVING AVG | EVENT NO. |
|-------------------|-------------|------------------------|-----------------|--------------------|---------------|--------------|
| Oct-85 | 200 | 1000 | 300 | TOTAL STE 32408.64 | - | 1 |
| Jan-86 | 95 | 1000 | 300 | TOTAL Sx 4115.901 | - | 2 |
| Apr-86 | 1500 | 1000 | 300 | TOTAL MEA 4927 | - | 3 |
| Jul-86 | 3300 | 1000 | 300 | TOTAL N 63 | 1273.75 | 4 |
| Oct-86 | 57 | 1000 | 300 | TOTAL df 62 | 1238.00 | 5 |
| Jan-87 | 47 | 1000 | 300 | | 1226.00 | 6 |
| Apr-87 | 170 | 1000 | 300 | | 893.50 | 7 |
| Jul-87 | 240 | 1000 | 300 | | 128.50 | 8 |
| Oct-87 | 230 | 1000 | 300 | | 171.75 | 9 |
| Jan-88 | 150 | 1000 | 300 | | 197.50 | 10 |
| Apr-88 | 470 | 1000 | 300 | | 272.50 | 11 |
| Jul-88 | 270 | 1000 | 300 | | 280.00 | 12 |
| Oct-88 | 250 | 1000 | 300 | | 285.00 | 13 |
| Jan-89 | 510 | 1000 | 300 | | 375.00 | 14 |
| Apr-89 | 460 | 1000 | 300 | | 372.50 | 15 |
| Jul-89 | 240 | 1000 | 300 | | 365.00 | 16 |
| Oct-89 | 300 | 1000 | 300 | | 377.50 | 17 |
| Jan-90 | 90 | 1000 | 300 | | 272.50 | 18 |
| Apr-90 | 330 | 1000 | 300 | | 240.00 | 19 |
| Jul-90 | 490 | 1000 | 300 | | 302.50 | 20 |
| Oct-90 | 260 | 1000 | 300 | | 292.50 | 21 |
| Jan-91 | 545 | 1000 | 300 | | 406.25 | 22 |
| Apr-91 | 550 | 1000 | 300 | | 461.25 | 23 |
| Jul-91 | 530 | 1000 | 300 | | 471.25 | 24 |
| Oct-91 | 60 | 1000 | 300 | | 421.25 | 25 |
| Jan-92 | 100 | 1000 | 300 | | 310.00 | 26 |
| Apr-92 | 91 | 1000 | 300 | | 195.25 | 27 |
| Jul-92 | 480 | 1000 | 300 | | 182.75 | 28 |
| Oct-92 | 31 | 1000 | 300 | | 175.50 | 29 |
| Jan-93 | 40 | 1000 | 300 | | 160.50 | 30 |
| Apr-93 | 47 | 1000 | 300 | | 149.50 | 31 |
| Jul-93 | 506 | 1000 | 300 | | 156.00 | 32 |
| Oct-93 | 810 | 1000 | 300 | | 350.75 | 33 |
| Jan-94 | 24 | 1000 | 300 | | 346.75 | 34 |
| Apr-94 | 141 | 1000 | 300 | | 370.25 | 35 |
| Jul-94 | 142 | 1000 | 300 | | 279.25 | 36 |
| Oct-94 | 200 | 1000 | 300 | | 126.75 | 37 |
| Jan-95 | 170 | 1000 | 300 | | 163.25 | 38 |
| Apr-95 | 869 | 1000 | 300 | | 345.25 | 39 |
| Jul-95 | 889 | 1000 | 300 | | 532.00 | 40 |
| Oct-95 | 1200 | 1000 | 20 | | 782.00 | 41 |
| Apr-96 | 140 | 1000 | 20 | | 592.25 | 42 |
| Sep-96 | 1600 | 1000 | 20 | | 870 | 43 |
| Apr-97 | 260000 | 1000 | 50 | | 130800 | 44 |
| Aug-97 | 2650 | 1000 | 20 | | 131325 | 45 |
| Mar-98 | 470 | 1000 | 10 | | 1560 | 46 |
| Sep-98 | 2900 | 1000 | 10 | | 1685 | 47 |
| May-99 | 727 | 1000 | 16 | | 1813.5 | 48 |
| Oct-99 | 2320 | 1000 | 16 | | 1523.5 | 49 |
| Nov-00 | 1200 | 1000 | 26 | | 1760 | 50 |
| Apr-01 | 370 | 1000 | 26 | | 785 | 51 |
| Oct-01 | 830 | 1000 | 20 | | 600 | 52 |
| Apr-02 | 2200 | 1000 | 20 | | 1515 | 53 |
| Oct-02 | 1600 | 1000 | 20 | | 1900 | 54 |
| Apr-03 | 960 | 1000 | 20 | | 1280 | 55 |
| Oct-03 | 1000 | 1000 | 20 | | 980 | 56 |
| Apr-04 | 640 | 1000 | 20 | | 820 | 57 |
| Oct-04 | 1200 | 1000 | 20 | | 920 | 58 |
| Apr-05 | 1400 | 1000 | 20 | | 1300 | 59 |
| Oct-05 | 2500 | 1000 | 20 | | 1950 | 60 |
| May-06 | 1580 | 1000 | 20 | | 2040 | 61 |
| Oct-06 | 1700 | 1000 | 20 | | 1640 | 62 |
| May-07 | 5330 | 1000 | 20 | | 3515 | 63 |
| Oct-07 | 1230 | 1000 | 20 | | 3280 | 64 |
| Oct-08 | 800 | 1000 | 20 | | 1015 | 65 |
| May-09 | 847 | 1000 | 20 | | 823.5 | 66 |
| Oct-09 | 1440 | 1000 | 20 | | 1143.5 | 67 |
| May-10 | 860 | 1000 | 20 | | 1150 | 68 |
| Oct-10 | 1080 | 1000 | 20 | | 970 | 69 |
| Jun-11 | 340 | 1000 | 20 | | 710 | 70 |
| Oct-11 | 1040 | 1000 | 20 | | 690 | 71 |
| May-12 | 490 | 1000 | 20 | | 765 | 72 |
| Oct-12 | 1360 | 1000 | 1280 | | 925 | 73 |
| May-13 | 880 | 1000 | 1000 | | 1120 | 74 |
| Oct-13 | 860 | 1000 | 880 | | 870 | 75 |
| May-14 | 690 | 1000 | 544 | | 775 | 76 |
| Oct-14 | 2050 | 1000 | 103 | | 1370 | 77 |

APPENDIX C
SITE- WIDE INSPECTION FORMS

WELL LOCATION MAP

Figure 1



Attachment II-B
Well Purging / Sampling Data

WELL D-55:

WELL PURGING DATA:

START TIME: 8⁵⁰ FINISH TIME: 9¹⁰ DATE: 5/5/14
A: MP ELEVATION 469.45 FEET
B: DEPTH TO WATER: 36.2 FEET
C: DEPTH OF WELL INSTALLED: 422.40
D: STATIC WATER LEVEL: C - D = 11.1 FEET
E: WELL VOLUME: $E * 0.1636 =$ 1.81 GALLONS
F: DEPTH OF WELL AS MEASURED: 47.3 FEET

WELL SAMPLING DATA:

DATE: 5/5/14

START TIME: 11⁵⁰ FINISH TIME: 12²⁰

A: MP ELEVATION 469.45 FEET
B: DEPTH TO WATER: 43.4 FEET
C: DEPTH OF WELL INSTALLED: 422.40
D: STATIC WATER LEVEL: C - D = 3.9 FEET
E: WELL VOLUME: $E * 0.1636 =$ 0.64 GALLONS
F: DEPTH OF WELL AS MEASURED: 47.3 FEET
G: pH OF SAMPLE: 7.06 pH 11.7 °C
H: pH METER CALIBRATED? YES NO
I: SAMPLES OBTAINED:

I - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: sunny / clear

K: SAMPLER(S): Velarde, Walton

L: COMMENTS: took duplicate samples here

Well Purging / Sampling Data

WELL VDM-9:

WELL PURGING DATA:

START TIME: 930 FINISH TIME: 940

DATE: 5/5/14

- A: MP ELEVATION 447.37 FEET
- B: DEPTH TO WATER: 21.0 FEET
- C: DEPTH OF WELL INSTALLED: 416.40
- D: STATIC WATER LEVEL: C - D = 8.8 FEET
- E: WELL VOLUME: E * 0.1636 = 1.43 GALLONS
- F: DEPTH OF WELL AS MEASURED: 29.8 FEET

obstructed

WELL SAMPLING DATA:

DATE: _____

START TIME: 1225 FINISH TIME: _____

- A: MP ELEVATION 447.37 FEET
- B: DEPTH TO WATER: _____ FEET
- C: DEPTH OF WELL INSTALLED: 416.40
- D: STATIC WATER LEVEL: C - D = _____ FEET
- E: WELL VOLUME: E * 0.1636 = _____ GALLONS
- F: DEPTH OF WELL AS MEASURED: _____ FEET
- G: pH OF SAMPLE: _____ pH
- H: pH METER CALIBRATED? YES NO
- I: SAMPLES OBTAINED:

N/A *bailey won't fit*

~~1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's~~

N/A

J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-10

WELL PURGING DATA:

DATE: 5/5/14

START TIME: 9:45 FINISH TIME: 10:00

- A: MP ELEVATION 444.89 FEET
- B: DEPTH TO WATER: 31.7 FEET
- C: DEPTH OF WELL INSTALLED: 398.70
- D: STATIC WATER LEVEL: C - D = 15.3 FEET
- E: WELL VOLUME: $E * 0.1636 =$ 2.50 GALLONS
- F: DEPTH OF WELL AS MEASURED: 47.0 FEET

WELL SAMPLING DATA:

DATE: 5/5/14

START TIME: 12:30 FINISH TIME: 12:50

- A: MP ELEVATION 444.89 FEET
- B: DEPTH TO WATER: 32.0 FEET
- C: DEPTH OF WELL INSTALLED: 398.70
- D: STATIC WATER LEVEL: C - D = 15 FEET
- E: WELL VOLUME: $E * 0.1636 =$ 2.45 GALLONS
- F: DEPTH OF WELL AS MEASURED: 47.0 FEET
- G: pH OF SAMPLE: 5.95 pH 12.0 °C
- H: pH METER CALIBRATED? YES NO
- I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: clear sunny

K: SAMPLER(S): Velarde, Walton

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-11

WELL PURGING DATA:

DATE: 5/5/14

START TIME: 10⁰⁰ FINISH TIME: 10¹⁰

- A: MP ELEVATION 450.74 FEET
- B: DEPTH TO WATER: 19.0 FEET
- C: DEPTH OF WELL INSTALLED: 427.70
- D: STATIC WATER LEVEL: C - D = 4.4 FEET
- E: WELL VOLUME: $E * 0.1636 =$ 0.72 GALLONS
- F: DEPTH OF WELL AS MEASURED: 23.4 FEET

WELL SAMPLING DATA:

DATE: 5/5/14

START TIME: 1⁰⁰ FINISH TIME: 1²⁰

- A: MP ELEVATION 450.74 FEET
- B: DEPTH TO WATER: 20.1 FEET
- C: DEPTH OF WELL INSTALLED: 427.70
- D: STATIC WATER LEVEL: C - D = 3.3 FEET
- E: WELL VOLUME: $E * 0.1636 =$ 0.54 GALLONS
- F: DEPTH OF WELL AS MEASURED: 23.4 FEET
- G: pH OF SAMPLE: 6.05 pH 10.5°C
- H: pH METER CALIBRATED? YES NO
- I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: clear sunny

K: SAMPLER(S): Jeff Velarde Justin Walton

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-12

WELL PURGING DATA:

DATE: 5/5/14

START TIME: 10¹⁰ FINISH TIME: _____

- A: MP ELEVATION 451.52 FEET
- B: DEPTH TO WATER: _____ FEET
- C: DEPTH OF WELL INSTALLED: 436.10
- D: STATIC WATER LEVEL: C - D = _____ FEET
- E: WELL VOLUME: $E * 0.1636 =$ _____ GALLONS
- F: DEPTH OF WELL AS MEASURED: _____ FEET

WELL SAMPLING DATA:

DATE: _____

START TIME: _____ FINISH TIME: _____

- A: MP ELEVATION 451.52 FEET
- B: DEPTH TO WATER: _____ FEET
- C: DEPTH OF WELL INSTALLED: 436.10
- D: STATIC WATER LEVEL: C - D = _____ FEET
- E: WELL VOLUME: $E * 0.1636 =$ _____ GALLONS
- F: DEPTH OF WELL AS MEASURED: _____ FEET
- G: pH OF SAMPLE: _____ pH
- H: pH METER CALIBRATED? YES N N/A
- I: SAMPLES OBTAINED:
~~1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's~~ N/A
- J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: DRY

Well Purging / Sampling Data

WELL VDM-12

WELL PURGING DATA:

DATE: 5/5/14

START TIME: 10¹⁰ FINISH TIME: _____

- A: MP ELEVATION 451.52 FEET
- B: DEPTH TO WATER: _____ FEET
- C: DEPTH OF WELL INSTALLED: 436.10
- D: STATIC WATER LEVEL: C - D = _____ FEET
- E: WELL VOLUME: $E * 0.1636 =$ _____ GALLONS
- F: DEPTH OF WELL AS MEASURED: _____ FEET

WELL SAMPLING DATA:

DATE: _____

START TIME: _____ FINISH TIME: _____

- A: MP ELEVATION 451.52 FEET
- B: DEPTH TO WATER: _____ FEET
- C: DEPTH OF WELL INSTALLED: 436.10
- D: STATIC WATER LEVEL: C - D = _____ FEET
- E: WELL VOLUME: $E * 0.1636 =$ _____ GALLONS
- F: DEPTH OF WELL AS MEASURED: _____ FEET
- G: pH OF SAMPLE: _____ pH
- H: pH METER CALIBRATED? YES N N/A
- I: SAMPLES OBTAINED:
~~1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's~~ N/A
- J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: DRY

Well Purging / Sampling Data

WELL VDM-14

WELL PURGING DATA:

DATE: 5/5/14

START TIME: 9¹⁵ FINISH TIME: 9³⁰

- A: MP ELEVATION 446.31 FEET
- B: DEPTH TO WATER: 9.9 FEET
- C: DEPTH OF WELL INSTALLED: 434.00
- D: STATIC WATER LEVEL: C - D = 1.9 FEET
- E: WELL VOLUME: $E * 0.1636 =$ 0.31 GALLONS
- F: DEPTH OF WELL AS MEASURED: 11.8 FEET

WELL SAMPLING DATA:

DATE: 5/5/14

START TIME: 12⁰⁰ FINISH TIME: 12³⁰

- A: MP ELEVATION 446.31 FEET
- B: DEPTH TO WATER: 10.4 FEET
- C: DEPTH OF WELL INSTALLED: 434.00
- D: STATIC WATER LEVEL: C - D = 1.4 FEET
- E: WELL VOLUME: $E * 0.1636 =$ 0.23 GALLONS
- F: DEPTH OF WELL AS MEASURED: 11.8 FEET
- G: pH OF SAMPLE: 5.55 pH , 9.3°C
- H: pH METER CALIBRATED? YES NO
- I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: sunny / clear

K: SAMPLER(S): Jeff Velarde Justin Walton

L: COMMENTS: _____

Attachment II-C

Groundwater Monitoring System Inspection Plan and Form

- A. Inspections of the groundwater monitoring system shall be performed on a semi-annual basis to conform with the post-closure monitoring schedule. Personnel trained in groundwater sampling, collection and sample preservation techniques will be used. The inspection form located below or an equivalent form shall be used. The original inspection forms shall be maintained by the permittee in an inspection log book or file for the full term of the post-closure care period. Copies of the inspections shall be submitted with the semi-annual monitoring reports.

- B. The well inspection will include visual inspection of the security cap and lock, condition of the surface grout, and the condition of the inner casing and cap. During well purging, the relative rate of recharge should be noted for comparison with the previous data to insure that the well screen is not plugged. Also during purging and sampling, the integrity of the well shall be inspected by measuring the total well depth and noting the presence of any obstructions such as casing bends, foreign objects or siltation. The measured well depth shall be compared to the "as built" well depth.

- C. If it becomes apparent that a well is not capable of providing representative samples, the permittee shall respond in accordance with Condition E.1 of this permit Module.

Landfill/Groundwater Monitoring System Inspection Form

- | | | | |
|-----|--|--------------------------------------|-------------------------------------|
| 1. | Is the integrity of the cover and ditch lining satisfactory? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| 1.1 | Any sink holes or depressions | YES | <input checked="" type="radio"/> NO |
| 1.2 | Significant erosion of the banks. | YES | <input checked="" type="radio"/> NO |
| 1.3 | Any visible problems. | YES | <input checked="" type="radio"/> NO |
| 2. | Is the integrity of the vegetative cover satisfactory? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| 2.1 | Is the grass healthy looking? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| 2.2 | Are there any bare spots? | YES | <input checked="" type="radio"/> NO |
| 2.3 | Is the grass less than 8" tall? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| 2.4 | Are there trees or bushes growing in the cover? | YES | <input checked="" type="radio"/> NO |
| 3. | Is drainage from the site satisfactory? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| 3.1 | Is there any ponding or puddling? | YES | <input checked="" type="radio"/> NO |
| 4. | Is the fence surrounding the site secure? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |

Hole in fence just inside main gate to the right

- 4.1 Any holes or damage? YES NO
- 4.2 Signs in place every 50'? YES NO
- 4.3 Accessible entry to the site? YES NO
- 4.4 Property "Posted Signs" visible and in tact? YES NO
- 5. Are all of the covers on the monitoring wells locked? YES NO
- 5.1 Caps on all of the risers? YES NO
- 6. Is there any iron staining in the drainage ditch? YES NO
- 7. Are there any visible seeps in the cliff face? YES NO
- 8. Are the wells in good condition? YES NO
- 8.1 Any damage to the outer casing? YES NO
- 8.2 Obstructions in the riser? YES NO
- 8.3 Excessive sediment buildup in any wells? YES NO

along right side perimeter

showing signs of rust/wear

have on D-55

#9 has obstruction
#12 dry/residue on top

Name of inspector: Jeff Velarde

Signature: Jeff Velarde Date: 5/5/14

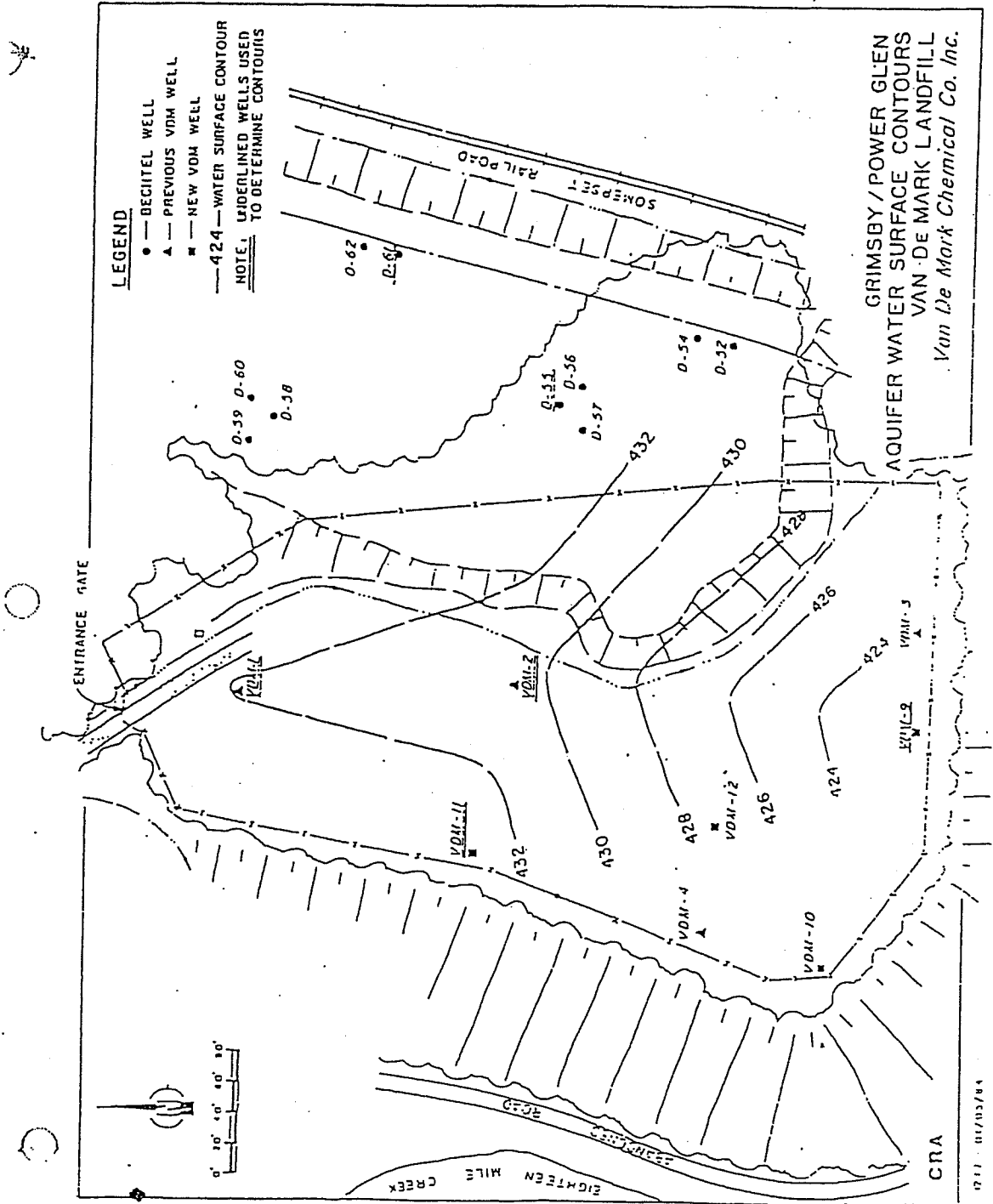
Attachment II-D

Laboratory QA/QC Deliverables

COMPONENTS REQUIRED FOR RCRA ANALYTICAL DATA SUBMITTED TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

WELL LOCATION MAP

Figure 1



Attachment II-B
Well Purging / Sampling Data

WELL D-55:

WELL PURGING DATA:

DATE: 10/6/14

START TIME: 0840 FINISH TIME: 0900

A: MP ELEVATION 469.45 FEET
B: DEPTH TO WATER: 36' 7" FEET
C: DEPTH OF WELL INSTALLED: 422.40
D: STATIC WATER LEVEL: C - D = 10.7 FEET
E: WELL VOLUME: $E * 0.1636 =$ 1.75 GALLONS
F: DEPTH OF WELL AS MEASURED: 47' 4" FEET

WELL SAMPLING DATA:

DATE: 10/6/14

START TIME: 12:30 FINISH TIME: 1:05

A: MP ELEVATION 469.45 FEET
B: DEPTH TO WATER: 37' 3" FEET
C: DEPTH OF WELL INSTALLED: 422.40
D: STATIC WATER LEVEL: C - D = 10.1 FEET
E: WELL VOLUME: $E * 0.1636 =$ 1.65 GALLONS
F: DEPTH OF WELL AS MEASURED: 47' 4" FEET
G: pH OF SAMPLE: 6.99 pH
H: pH METER CALIBRATED? YES NO

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: Sunny / some rain

K: SAMPLER(S): Kenneth Shepard Justin Walton

L: COMMENTS: hinge broken on top

Well Purging / Sampling Data

WELL VDM-9:

WELL PURGING DATA:

DATE: 10/6/14

START TIME: 0920 FINISH TIME: 0930

A: MP ELEVATION 447.37 FEET

B: DEPTH TO WATER: 38' FEET

C: DEPTH OF WELL INSTALLED: 416.40

D: STATIC WATER LEVEL: C - D = 1' 2" FEET

E: WELL VOLUME: E * 0.1636 = .196 GALLONS

F: DEPTH OF WELL AS MEASURED: 39' 2" FEET

WELL SAMPLING DATA:

DATE: 10/6/14

START TIME: 1:10 FINISH TIME: 1:20

A: MP ELEVATION 447.37 FEET

B: DEPTH TO WATER: 38' 5" FEET

C: DEPTH OF WELL INSTALLED: 416.40

D: STATIC WATER LEVEL: C - D = 0.7 FEET

E: WELL VOLUME: E * 0.1636 = .11 GALLONS

F: DEPTH OF WELL AS MEASURED: 39' 2" FEET

G: pH OF SAMPLE: 5.69 pH 17.2°C

H: pH METER CALIBRATED? YES NO

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: partly cloudy

K: SAMPLER(S): Kenneth Shepherd Sustin Walter

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-10

WELL PURGING DATA:

DATE: 10/6/14

START TIME: 0935 FINISH TIME: 0955

- A: MP ELEVATION 444.89 FEET
- B: DEPTH TO WATER: 32' 9" FEET
- C: DEPTH OF WELL INSTALLED: 398.70
- D: STATIC WATER LEVEL: C - D = 15' 9" FEET
- E: WELL VOLUME: $E * 0.1636 =$ 2.6 GALLONS
- F: DEPTH OF WELL AS MEASURED: 47' FEET

WELL SAMPLING DATA:

DATE: 10/6/14

START TIME: 1:20 FINISH TIME: 1:30

- A: MP ELEVATION 444.89 FEET
- B: DEPTH TO WATER: 43' 3" FEET
- C: DEPTH OF WELL INSTALLED: 398.70
- D: STATIC WATER LEVEL: C - D = 3.7 FEET
- E: WELL VOLUME: $E * 0.1636 =$.60 GALLONS
- F: DEPTH OF WELL AS MEASURED: 47' FEET
- G: pH OF SAMPLE: 5.58 pH 12.3°c
- H: pH METER CALIBRATED? YES NO
- I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: partly cloudy

K: SAMPLER(S): Kenneth Shephard Justin Wulfsberg

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-11

WELL PURGING DATA:

DATE: 10/6/14

START TIME: 10:00 FINISH TIME: 10:05

A: MP ELEVATION 450.74 FEET

B: DEPTH TO WATER: 20'6" FEET

C: DEPTH OF WELL INSTALLED: 427.70

D: STATIC WATER LEVEL: C - D = 2'8" FEET

E: WELL VOLUME: $E * 0.1636 =$.523 GALLONS

F: DEPTH OF WELL AS MEASURED: 23'4" FEET

WELL SAMPLING DATA:

DATE: 10/6/14

START TIME: 1:30 FINISH TIME: 1:45

A: MP ELEVATION 450.74 FEET

B: DEPTH TO WATER: 22'1" FEET

C: DEPTH OF WELL INSTALLED: 427.70

D: STATIC WATER LEVEL: C - D = 1.3 FEET

E: WELL VOLUME: $E * 0.1636 =$.21 GALLONS

F: DEPTH OF WELL AS MEASURED: 23.4 FEET

G: pH OF SAMPLE: 5.94 pH 15.3°C

H: pH METER CALIBRATED? YES NO

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: partly cloudy

K: SAMPLER(S): Kenneth Shephard Justin Walton

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-12

WELL PURGING DATA:

DATE: 10/6/14

START TIME: 10:10 FINISH TIME: 10:15

A: MP ELEVATION 451.52 FEET
B: DEPTH TO WATER: _____ FEET
C: DEPTH OF WELL INSTALLED: 436.10
D: STATIC WATER LEVEL: C - D = _____ FEET
E: WELL VOLUME: E * 0.1636 = _____ GALLONS
F: DEPTH OF WELL AS MEASURED: 13' 3" FEET

WELL SAMPLING DATA:

DATE: _____

START TIME: _____ FINISH TIME: _____

A: MP ELEVATION 451.52 FEET
B: DEPTH TO WATER: _____ FEET
C: DEPTH OF WELL INSTALLED: 436.10
D: STATIC WATER LEVEL: C - D = _____ FEET
E: WELL VOLUME: E * 0.1636 = _____ GALLONS
F: DEPTH OF WELL AS MEASURED: _____ FEET
G: pH OF SAMPLE: _____ pH
H: pH METER CALIBRATED? YES N

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: partly cloudy

K: SAMPLER(S): Kenneth Sheppard Justin Walton

L: COMMENTS: no water detected

Well Purging / Sampling Data

WELL VDM-14

WELL PURGING DATA:

DATE: 10/6/14

START TIME: 10:15 FINISH TIME: 10:30

A: MP ELEVATION 446.31 FEET
B: DEPTH TO WATER: 9'9" FEET
C: DEPTH OF WELL INSTALLED: 434.00
D: STATIC WATER LEVEL: C - D = 1'7" FEET
E: WELL VOLUME: E * 0.1636 = 0.278 GALLONS
F: DEPTH OF WELL AS MEASURED: 11'6" FEET

WELL SAMPLING DATA:

DATE: 10/6/14

START TIME: 1:45 FINISH TIME: 2:15

A: MP ELEVATION 446.31 FEET
B: DEPTH TO WATER: 10' FEET
C: DEPTH OF WELL INSTALLED: 434.00
D: STATIC WATER LEVEL: C - D = 1.6 FEET
E: WELL VOLUME: E * 0.1636 = 0.26 GALLONS
F: DEPTH OF WELL AS MEASURED: 11'6" FEET
G: pH OF SAMPLE: 4.99 pH 10.13 c
H: pH METER CALIBRATED? YES NO

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: partly cloudy

K: SAMPLER(S): Kenneth Shephard Justin Walton

L: COMMENTS: _____

Attachment II-C

Groundwater Monitoring System Inspection Plan and Form

- A. Inspections of the groundwater monitoring system shall be performed on a semi-annual basis to conform with the post-closure monitoring schedule. Personnel trained in groundwater sampling, collection and sample preservation techniques will be used. The inspection form located below or an equivalent form shall be used. The original inspection forms shall be maintained by the permittee in an inspection log book or file for the full term of the post-closure care period. Copies of the inspections shall be submitted with the semi-annual monitoring reports.

- B. The well inspection will include visual inspection of the security cap and lock, condition of the surface grout, and the condition of the inner casing and cap. During well purging, the relative rate of recharge should be noted for comparison with the previous data to insure that the well screen is not plugged. Also during purging and sampling, the integrity of the well shall be inspected by measuring the total well depth and noting the presence of any obstructions such as casing bends, foreign objects or siltation. The measured well depth shall be compared to the "as built" well depth.

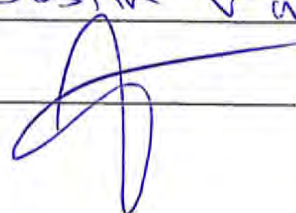
- C. If it becomes apparent that a well is not capable of providing representative samples, the permittee shall respond in accordance with **Condition E.1** of this permit Module.

Landfill/Groundwater Monitoring System Inspection Form

- | | | | |
|----|--|--------------------------------------|-------------------------------------|
| 1. | Is the integrity of the cover and ditch lining satisfactory? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| | 1.1 Any sink holes or depressions | <input checked="" type="radio"/> YES | <input checked="" type="radio"/> NO |
| | 1.2 Significant erosion of the banks. | <input checked="" type="radio"/> YES | <input checked="" type="radio"/> NO |
| | 1.3 Any visible problems. | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| 2. | Is the integrity of the vegetative cover satisfactory? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| | 2.1 Is the grass healthy looking? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| | 2.2 Are there any bare spots? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| | 2.3 Is the grass less than 8" tall? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| | 2.4 Are there trees or bushes growing in the cover? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| 3. | Is drainage from the site satisfactory? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| | 3.1 Is there any ponding or puddling? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| 4. | Is the fence surrounding the site secure? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |

- 4.1 Any holes or damage? *50' west of land fill gate* YES NO
- 4.2 Signs in place every 50'? YES NO
- 4.3 Accessible entry to the site? YES NO
- 4.4 Property "Posted Signs" visible and in tact? *More needed* YES NO
- 5. Are all of the covers on the monitoring wells locked? YES NO
- 5.1 Caps on all of the risers? YES NO
- 6. Is there any iron staining in the drainage ditch? YES NO
- 7. Are there any visible seeps in the cliff face? YES NO
- 8. Are the wells in good condition? *55 - Broken lid (things)
12 - obstruction 2' down* YES NO
- 8.1 Any damage to the outer casing? YES NO
- 8.2 Obstructions in the riser? YES NO
- 8.3 Excessive sediment buildup in any wells? YES NO

Name of inspector: Justin Walter

Signature:  Date: 10/6/14

Attachment II-D
Laboratory QA/QC Deliverables
COMPONENTS REQUIRED FOR RCRA ANALYTICAL DATA SUBMITTED TO
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION