

13 September 2012

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Division of Environmental Remediation - Region 9
270 Michigan Avenue
Buffalo, New York 14203



RE: Monthly Progress Report – August 2012
Greif, Inc. Facility – Tonawanda, New York
NYSDEC VCP Number V00334-9

***Key Actions
This Period:***

- Performed routine operations and maintenance (O&M) on the Sub-Slab Depressurization (SSD) system and dense, non-aqueous phase liquid (DNAPL) recovery equipment. Collected and recorded relevant data. Data collected included liquid level measurements in selected Site wells and monitoring points (Table 1), vacuum readings in vacuum monitoring points (Table 2), and treatment system operational data (Table 3). The locations of wells and other sampling and monitoring points are presented in Figure 1. A map showing the estimated distribution of vacuum beneath the floor slab on 21 August 2012 is presented in Figure 2.
- Technical assistance and review of Site information for incorporation into a deed restriction currently under preparation by Greif and the NYSDEC's consultant.
- Planning and preparation for construction of NYSDEC-approved modifications to the SSD System.
- Provided maintenance and repair of the blower's motor for the SSD System.

***Problems/
Resolutions:***

- An alarm was transmitted from the SSD System to ERM on 2 August indicating a system shut down due to either high electrical current or high temperature. ERM mobilized to the Site and the motor, blower, and associated controls were evaluated. The SSD system could not be restored by resetting the

electrical components or other on-Site electrical trouble-shooting or repairs. Therefore, the SSD System was temporarily shut down and the motor was removed and transported to a local mechanical and electrical shop (Volland) for diagnosis and repair. The NYSDEC and the NYSDOH were notified and approved of the temporary system shutdown. The motor was re-installed after repair and the system re-tested. Further evaluation suggested that flow restriction caused by the GAC system was causing increased current draw on the motor. The former first GAC vessel was taken off line and extracted vapors are currently being treated through one GAC vessel. The entire system will soon be moved inside the facility and a GAC vessel will be added at that time prior to re-start of the SSD System.

Analytical Data Received: • None.

Documents Submitted: • Monthly Progress Report for July 2012 dated 15 August 2012.

Anticipated Actions – September 2012:

- Routine O&M of the SSD System and DNAPL recovery equipment.
- Submission of an exception description for the property boundary by Greif to the NYSDEC for use in preparation of the environmental deed restriction.
- Subcontractor procurement for construction of NYSDEC-approved modifications to the SSD System.

NYSDEC-Approved Field Decisions:

- Temporary shut-down of the SSD System for trouble-shooting and diagnosis.
- Temporary treatment of SSD System extracted vapors through one GAC vessel.

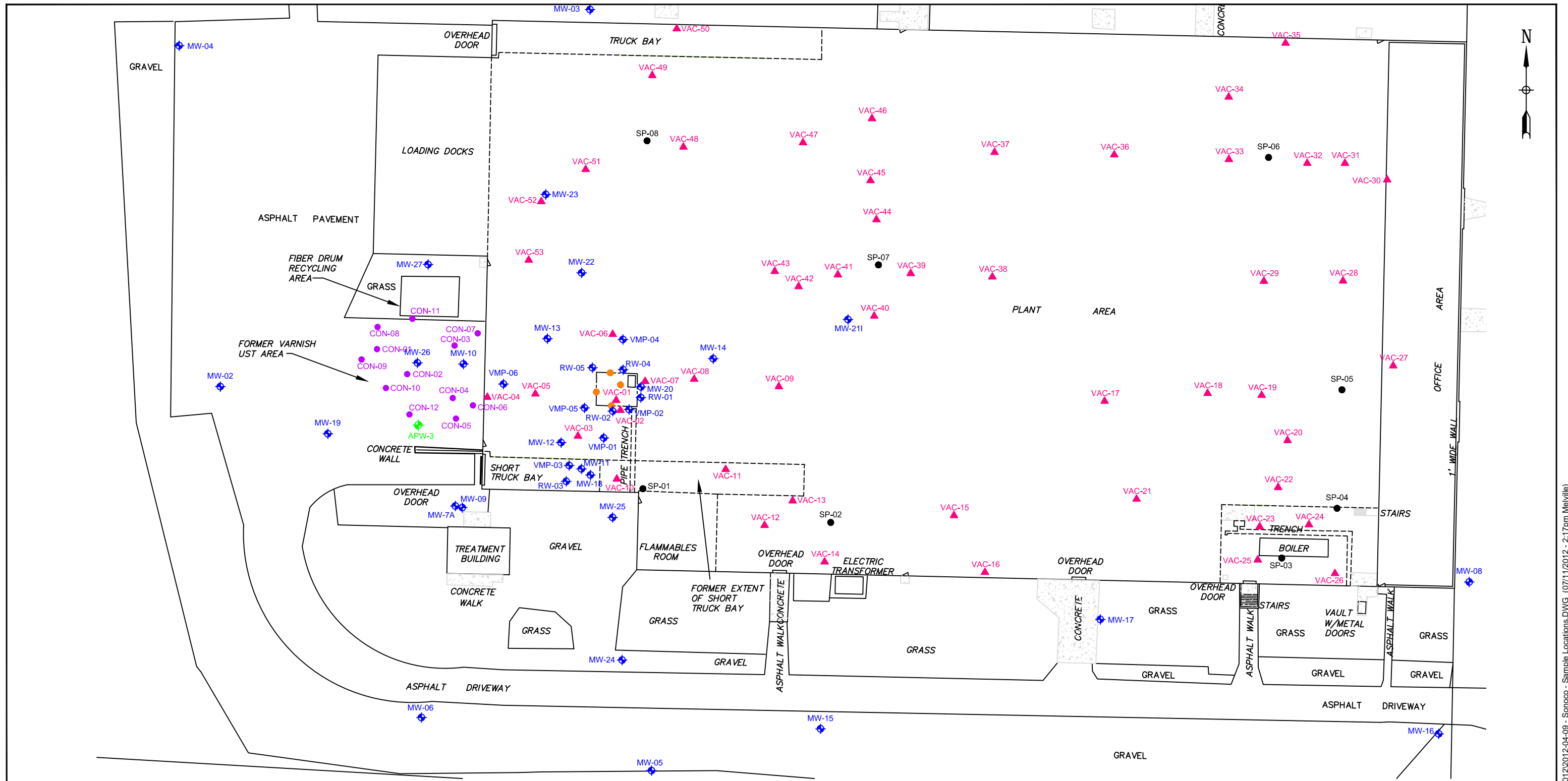
Prepared By:



Jon S. Fox, P.G.
Senior Consultant

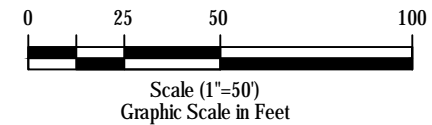
Date: 13 September 2012

Cc: Mike Sunderland (Sonoco)
Pete Gruene (Sonoco)
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Gregory Sutton, P.E. (NYSDEC)
James Charles, Esq. (NYSDEC)
Matt Forcucci (NYSDOH)
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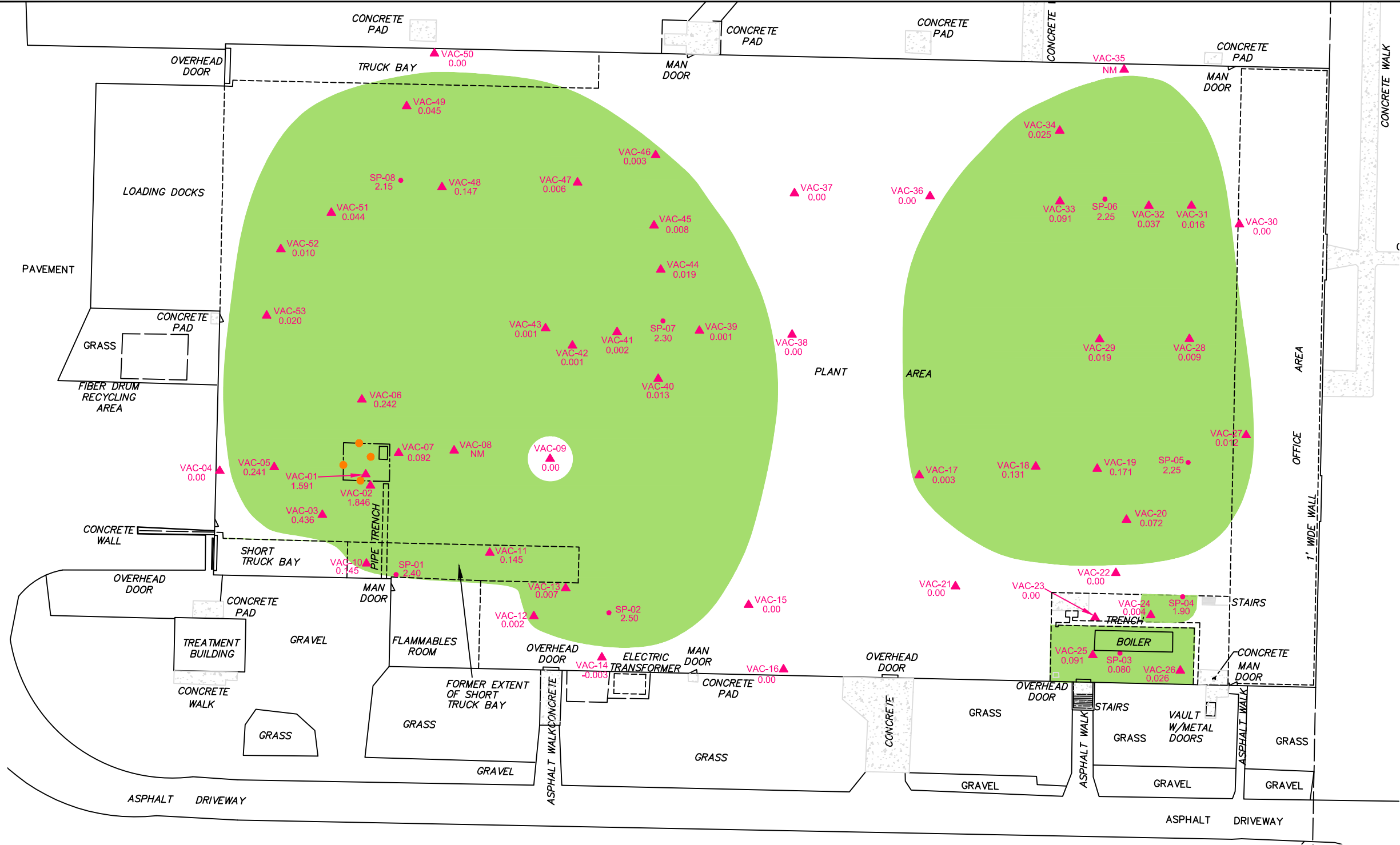


LEGEND

- ▲ Vacuum Monitoring Point Location
- ◆ Monitoring or Recovery Well Location
- ◆ Antenna Placement Well
- Vertical Suction Point Location
- Horizontal Suction Point Location
- Soil Confirmation Location
- Former Varnish Pit
- ▤ Man Door
- ▤ Concrete Pad



| | | | |
|--|------------------|---------------------|-----------------------|
| TITLE SAMPLE AND MEASUREMENT LOCATIONS GREIF FACILITY-TONAWANDA, NEW YORK NYSDEC VCP NUMBER V00334-9 | | | |
| PREPARED FOR SONOCO PRODUCTS COMPANY | | | |
| Environmental Resources Management <small>ERM</small> | | | FIGURE 1 |
| DRAWN BY EMF | SCALE GRAPHIC | DATE 11-Jul-2012 | JOB NO. 0129254-01 |



- LEGEND**
- Horizontal Suction Point Location
 - Vertical Suction Point Location
 - ▲ Vacuum Monitoring Point Location (vacuum in " H₂O)
 - NM Not Measured
 - Estimated Extent of Sub-Floor Vacuum
 - Former Varnish Pit
 - Man Door
 - Concrete Pad

NOTES:
1. " H₂O = inches of water column

| | | | |
|--|--------------|----------------|----------------|
| TITLE | | | |
| SUBSURFACE VACUUM DISTRIBUTION 21 August 2012 GREIF FACILITY-TONAWANDA, NEW YORK | | | |
| PREPARED FOR | | | |
| SONOCO PRODUCTS COMPANY | | | |
| Environmental Resources Management | | | |
| DRAWN BY | SCALE | DATE | JOB NO. |
| EMF | GRAPHIC | 28 AUGUST 2012 | 0129254.01 |
| | | | 2 |

Table 1
Summary of Non-Aqueous Phase Liquid Thicknesses in Wells
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9

| WELL | RW-1 (ft.) (DNAPL) | RW-2 (ft.) (DNAPL) | RW-4 (ft.) (DNAPL) | RW-5 (ft.) (LNAPL) | RW-6 (ft.) (DNAPL) | VMP-2 (ft.) (DNAPL) | VMP-5 (ft.) (DNAPL) | MW-20 (ft.) (DNAPL) | MW-23 (ft.) (LNAPL) |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| Date | | | | | | | | | |
| 19-May-08 | 0.00 | 0.00 | 0.00 | 0.00 | NI | 0.00 | HS | 0.09 | 0.14 |
| 30-May-08 | 0.00 | 0.16 | 0.00 | 0.00 | NI | 0.00 | HS | 0.03 | 0.14 |
| 16-Jun-08 | 0.00 | 0.14 | 0.00 | 0.02 | NI | 0.00 | 0.02 | 0.07 | 0.13 |
| 25-Jun-08 | 0.00 | 0.16 | 0.00 | 0.02 | NI | 0.00 | HS | 0.07 | 0.26 |
| 3-Jul-08 | 0.00 | 0.16 | 0.00 | 0.02 | NI | 0.00 | HS | 0.09 | 0.18 |
| 23-Jul-08 | 0.00 | 0.16 | 0.00 | 0.02 | NI | 0.00 | HS | 0.10 | 0.09 |
| 6-Aug-08 | 0.03 | 0.16 | 0.00 | 0.04 | NI | 0.00 | HS | 0.11 | 0.09 |
| 19-Aug-08 | 0.03 | 0.16 | 0.00 | 0.04 | NI | 0.00 | HS | 0.13 | 0.11 |
| 21-Nov-08 | HS | 0.11 | 0.00 | 0.00 | NI | 0.00 | HS | 0.22 | 0.29 |
| 17-Dec-08 | HS | 0.11 | 0.00 | 0.00 | NI | 0.00 | HS | 0.24 | 0.29 |
| 14-Jan-09 | 0.00 | 0.00 | 0.00 | 0.00 | NI | 0.00 | 0.00 | HS | 0.13 |
| 26-Feb-09 | 0.00 | 0.00 | 0.00 | 0.00 | NI | 0.00 | 0.00 | 0.01 | 0.24 |
| 12-Mar-09 | 0.00 | 0.00 | 0.00 | 0.00 | NI | 0.00 | 0.00 | 0.00 | 0.09 |
| 22-Apr-09 | 0.00 | 0.00 | 0.00 | 0.00 | NI | 0.00 | 0.00 | 0.00 | 0.11 |
| 13-May-09 | 0.00 | 0.00 | 0.00 | 0.00 | NI | 0.00 | 0.00 | 0.00 | 0.09 |
| 25-Jun-09 | NM | 0.00 | NM | 0.00 | NI | 0.00 | 0.00 | NM | 0.12 |
| 17-Jul-09 | NM | 0.00 | NM | 0.00 | NI | 0.00 | 0.00 | NM | 0.11 |
| 27-Aug-09 | 0.00 | 0.00 | 0.00 | 0.00 | NI | 0.00 | NM | NM | 0.09 |
| 25-Sep-09 | 0.00 | 0.00 | 0.00 | 0.00 | NM | 0.00 | NM | 0.04 | 0.11 |
| 16-Oct-09 | NM | 0.00 | 0.00 | 0.00 | NM | 0.00 | NM | NM | 0.11 |
| 19-Nov-09 | NM | 0.00 | NM | NM | NM | 0.00 | NM | NM | 0.21 |
| 17-Dec-09 | 0.00 | 0.00 | NM | NM | NM | 0.00 | 0.00 | 0.01 | 0.23 |
| 14-Jan-10 | 0.00 | 0.00 | 0.00 | NM | NM | 0.00 | 0.00 | 0.01 | 0.21 |
| 17-Feb-10 | 0.00 | 0.00 | NM | NM | NM | 0.00 | 0.00 | 0.01 | 0.17 |
| 18-Mar-10 | 0.00 | 0.00 | 0.00 | 0.00 | NM | 0.00 | 0.00 | 0.01 | 0.09 |
| 13-Apr-10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.49 | 0.00 | 0.00 | 0.01 | 0.12 |
| 18-May-10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.53 | 0.00 | NM | 0.01 | 0.08 |
| 15-Jun-10 | 0.00 | 0.00 | 0.00 | NM | 0.01* | 0.00 | 0.00 | 0.01 | 0.07 |
| 14-Jul-10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.07 |
| 13-Aug-10 | 0.00 | NM | 0.00 | NM | 0.08 | 0.00 | 0.00 | HS | 0.10 |
| 14-Sep-10 | 0.00 | NM | 0.00 | NM | 0.04 | 0.00 | 0.00 | NM | 0.06 |
| 14-Oct-10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.01 | 0.08 |
| 22-Nov-10 | 0.00 | 0.00 | NM | 0.00 | 0.04 | 0.00 | 0.00 | 0.01 | 0.14 |
| 15-Dec-10 | 0.00 | 0.00 | 0.00 | NM | 0.01 | 0.00 | NM | 0.01 | 0.09 |
| 18-Jan-11 | 0.00 | 0.00 | 0.00 | NM | HS | 0.00 | NM | 0.02 | 0.09 |
| 21-Feb-11 | NM | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.03 | 0.04 |
| 11-Mar-11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.04 | 0.03 |
| 21-Apr-11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| 24-May-11 | 0.00 | 0.00 | 0.00 | NM | 0.15 | 0.3 | 0.00 | 0.1 | 0.1 |
| 21-June-11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.1 | 0.00 | 0.00 | 0.03 | 0.08 |
| 21-July-11 | 0.00 | 0.00 | 0.00 | NM | HS | 0.00 | 0.00 | 0.01 | 0.06 |
| 29-Aug-11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | HS |
| 26-Sept-11 | 0.00 | NM | 0.00 | 0.00 | 0.10 | 0.00 | NM | 0.04 | HS |
| 28-Oct-11 | 0.00 | 0.00 | NM | 0.00 | 0.03 | 0.00 | 0.00 | 0.02 | HS |
| 18-Nov-11 | 0.00 | 0.00 | NM | NM | HS | 0.00 | 0.00 | 0.01 | 0.04 |
| 22-Dec-11 | 0.00 | 0.00 | NM | NM | 0.03 | 0.00 | 0.00 | 0.02 | 0.06 |
| 20-Jan-12 | 0.00 | 0.00 | 0.00 | 0.00 | HS | 0.00 | 0.00 | 0.02 | HS |
| 21-Feb-12 | 0.00 | 0.00 | 0.00 | 0.00 | HS | 0.00 | 0.00 | 0.03 | HS |
| 16-Mar-12 | 0.00 | 0.00 | 0.00 | 0.00 | HS | 0.00 | 0.00 | HS | 0.15 |
| 20-Apr-12 | 0.00 | 0.00 | NM | NM | HS | 0.00 | 0.00 | 0.02 | 0.02 |
| 17-May-12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.06 | 0.00 | 0.00 | 0.01 | 0.03 |
| 20-Jun-12 | 0.00 | 0.00 | 0.00 | 0.00 | HS | 0.00 | 0.00 | 0.01 | 0.04 |
| 20-Jul-12 | NM | 0.00 | NM | 0.00 | HS | 0.00 | 0.00 | NM | 0.02 |
| 21-Aug-12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.12 | 0.19 |

Notes:

All values are reported in feet as measured with an electronic interface probe.

HS - heavy sheen but no measureable thickness.

NM - not measured; was covered with pallets or other surface obstruction.

NI - not installed as of this date.

* - Product level after ERM initiated DNAPL recovery test

Table 2
Summary of Vacuum Readings
Greif, Inc. - Tonawanda, NY
NYSDEC VCP Number V00334-9

| Location | Vac-29 | Vac-30 | Vac-31 | Vac-32 | Vac-33 | Vac-34 | Vac-35 | Vac-36 | Vac-37 | Vac-38 | Vac-39 | Vac-40 | Vac-41 | Vac-42 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Date | | | | | | | | | | | | | | |
| 16-Jun-10 | 0.040 | 0 | 0 | 0.040 | 0.0675 | 0.0225 | NM | 0 | 0.030 | NM | 0.025 | 0.0275 | 0.0525 | 0.0025 |
| 14-Jul-10 | NM | NM | NM | NM | 0.125 | 0.0325 | 0 | 0 | 0 | NM | 0.03 | 0.0325 | NM | 0.005 |
| 13-Aug-10 | 0.0725 | 0 | 0.0375 | 0.0875 | 0.1625 | 0.05 | 0 | 0 | 0 | 0 | 0.05 | 0.04 | 0.0875 | 0.015 |
| 14-Sep-10 | 0.025 | 0 | 0.01 | 0.03 | 0.06 | 0.015 | 0 | 0 | 0 | 0 | 0.02 | 0.0075 | 0.025 | 0.0025 |
| 14-Oct-10 | 0.025 | 0 | 0.005 | 0.03 | 0.055 | 0.01 | 0 | 0 | 0 | 0 | 0.01 | 0.01 | 0.025 | NM |
| 22-Nov-10 | 0.015 | 0 | 0.0025 | 0.025 | 0.065 | 0.01 | 0 | NM | 0 | 0 | 0.005 | NM | 0.015 | NM |
| 16-Dec-10 | 0.02 | NM | 0.005 | 0.035 | 0.055 | 0.015 | 0 | NM | 0 | 0 | 0.005 | NM | 0.0125 | NM |
| 19-Jan-11 | 0.02 | NM | 0.0075 | 0.03 | 0.04 | 0.015 | 0 | 0 | 0 | 0 | 0.01 | NM | 0.0125 | NM |
| 21-Feb-11 | 0.015 | 0 | 0.01 | 0.035 | 0.0325 | NM | NM | 0 | 0 | 0.0025 | 0.015 | 0.01 | 0.0175 | NM |
| 11-Mar-11 | 0.02 | 0 | 0.02 | 0.0425 | 0.0625 | 0.03 | 0 | 0 | 0 | 0 | 0.0225 | 0.02 | 0.02 | NM |
| 21-Apr-11 | 0.0175 | 0 | 0.01 | 0.035 | 0.06 | NM | NM | 0 | 0 | 0 | 0.01 | 0.005 | 0.0125 | 0 |
| 24-May-11 | 0.0325 | 0 | 0.0225 | 0.0525 | 0.075 | NM | NM | 0 | 0 | NM | 0.0125 | NM | 0.035 | 0 |
| 21-Jun-11 | 0.04 | 0 | 0.03 | 0.075 | 0.11 | 0.04 | NM | 0 | 0 | 0 | 0 | 0.0225 | 0.0425 | 0 |
| 21-Jul-11 | 0.055 | 0 | 0.05 | 0.1025 | 0.17 | 0.06 | 0 | 0.0125 | 0 | 0 | 0.0325 | 0.035 | 0.08 | 0.0075 |
| 29-Aug-11 | 0.0375 | 0 | 0.0325 | 0.07 | 0.13 | 0.0375 | 0 | 0 | 0 | 0 | NM | 0.02 | 0.035 | 0.05 |
| 26-Sep-11 | 0.045 | 0 | 0.03 | 0.06 | 0.1175 | 0.035 | 0 | 0 | NM | 0 | 0 | NM | NM | 0.01 |
| 28-Oct-11 | NM | 0 | 0.0075 | 0.0375 | 0.0775 | 0.0775 | NM | 0 | 0 | 0 | 0.0075 | 0.005 | 0.01 | NM |
| 18-Nov-11 | NM | 0 | 0.01 | 0.0325 | 0.065 | 0.0175 | NM | 0 | 0 | 0 | 0.0075 | 0 | 0.01 | NM |
| 22-Dec-11 | 0.014 | 0.005 | 0.012 | 0.032 | 0.077 | 0.021 | 0 | 0 | 0 | 0 | 0.008 | 0.011 | 0.014 | 0.001 |
| 20-Jan-12 | 0.011 | -0.003 | 0.012 | 0.032 | 0.064 | 0.018 | 0 | 0 | 0 | 0 | 0.007 | 0.008 | 0.012 | 0.001 |
| 21-Feb-12 | 0.009 | -0.002 | 0.007 | 0.023 | 0.054 | 0.016 | NM | 0 | 0 | 0 | 0.006 | 0.007 | 0.009 | NM |
| 16-Mar-12 | 0.013 | 0 | 0.013 | 0.034 | 0.076 | 0.02 | 0 | 0 | 0 | 0 | 0.01 | 0.011 | 0.017 | NM |
| 20-Apr-12 | 0.019 | 0.007 | 0.015 | 0.035 | 0.021 | 0 | 0 | 0 | 0 | 0 | 0.689 | 0.119 | 0.001 | NM |
| 17-May-12 | 0.004 | 0.005 | 0.008 | 0.025 | 0.071 | 0.016 | NM | 0.001 | 0 | 0 | 0.001 | 0.01 | 0.009 | NM |
| 20-Jun-12 | 0.027 | 0 | 0.008 | 0.073 | 0.135 | 0.038 | NM | 0.004 | 0 | 0.001 | NM | 0.016 | 0.03 | 0.033 |
| 20-Jul-12 | 0.022 | 0.001 | 0.023 | NM | 0.102 | 0.026 | NM | 0.001 | 0 | 0.001 | 0.012 | 0.016 | 0.019 | NM |
| 21-Aug-12 | 0.019 | 0 | 0.016 | 0.037 | 0.091 | 0.025 | NM | 0.001 | 0 | 0 | 0.001 | 0.013 | 0.002 | 0.001 |

| Location | Vac-43 | Vac-44 | Vac-45 | Vac-46 | Vac-47 | Vac-48 | Vac-49 | Vac-50 | Vac-51 | Vac-52 | Vac-53 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Date | | | | | | | | | | | |
| 16-Jun-10 | 0.0025 | 0.0425 | 0.015 | 0.0125 | NM | 0.2125 | 0.0925 | 0 | 0.080 | 0.0125 | 0.0125 |
| 14-Jul-10 | 0 | NM | NM | 0.0125 | NM | 0.21 | 0.0875 | NM | 0.8 | 0.0175 | 0.0225 |
| 13-Aug-10 | 0 | NM | NM | NM | NM | 0.22 | 0.0925 | 0 | 0.085 | NM | 0.0225 |
| 14-Sep-10 | 0 | NM | NM | 0.0025 | NM | 0.1275 | 0.05 | 0 | 0.04 | 0.005 | 0 |
| 14-Oct-10 | NM | NM | 0 | NM | NM | 0.11 | 0.0375 | 0 | 0.03 | 0 | 0 |
| 22-Nov-10 | 0 | NM | 0 | 0 | NM | 0.135 | 0.0475 | 0 | 0.03 | 0.0025 | 0 |
| 16-Dec-10 | 0 | 0.015 | 0 | 0 | NM | 0.09 | 0.02 | 0 | NM | 0 | 0 |
| 19-Jan-11 | 0 | NM | 0 | 0 | NM | 0.12 | 0.035 | 0 | 0.03 | 0.0025 | 0 |
| 21-Feb-11 | 0 | 0.0325 | 0.01 | 0 | 0 | 0.125 | 0.035 | 0 | 0.03 | 0 | 0 |
| 11-Mar-11 | 0 | NM | 0.02 | NM | 0.005 | 0.16 | 0.0575 | NM | 0.05 | 0.03 | 0.01 |
| 21-Apr-11 | 0 | NM | 0 | NM | 0 | 0.1375 | 0.045 | NM | 0.025 | 0 | 0 |
| 24-May-11 | 0 | 0.03 | 0.005 | NM | 0.0075 | 0.175 | 0.06 | 0 | 0.055 | 0.005 | 0.0125 |
| 21-Jun-11 | NM | NM | 0.0175 | NM | 0.02 | 0.195 | 0.0675 | 0 | 0.065 | 0.0175 | 0.03 |
| 21-Jul-11 | 0.0125 | 0.0525 | 0.0375 | 0.025 | 0.035 | 0.235 | 0.0875 | 0 | 0.07 | 0.02 | 0.06 |
| 29-Aug-11 | 0 | 0.0325 | NM | NM | NM | 0.185 | 0.07 | 0 | 0.06 | 0.03 | 0.09 |
| 26-Sep-11 | 0.0075 | NM | 0.005 | NM | 0.0125 | 0.17 | 0.07 | 0 | 0.055 | 0.175 | 0.0325 |
| 28-Oct-11 | 0 | 0.0075 | 0 | NM | 0.0075 | 0.1225 | 0.03 | 0 | 0.03 | 0 | 0.0025 |
| 18-Nov-11 | 0 | NM | 0 | 0 | 0 | 0.09 | 0.03 | 0 | 0.0275 | 0.005 | 0.005 |
| 22-Dec-11 | 0.001 | 0.014 | 0.001 | 0.004 | 0.005 | 0.131 | 0.036 | 0.001 | 0.034 | 0.009 | 0.01 |
| 20-Jan-12 | 0.001 | 0.012 | 0.004 | 0.004 | 0.006 | 0.131 | 0.037 | 0.001 | 0.031 | 0.007 | 0.007 |
| 21-Feb-12 | 0.002 | NM | 0.003 | 0.002 | 0.004 | 0.114 | 0.026 | 0.001 | 0.026 | 0.008 | 0.009 |
| 16-Mar-12 | NM | 0.016 | 0.008 | 0.004 | 0.008 | 0.124 | 0.034 | 0.001 | 0.032 | 0.017 | 0.014 |
| 20-Apr-12 | 0.001 | 0.014 | 0.006 | 0.001 | 0.003 | NM | 0.031 | 0.001 | 0.03 | 0.009 | 0.014 |
| 17-May-12 | NM | 0.01 | 0.005 | 0.003 | 0.006 | 0.11 | 0.031 | 0 | 0.032 | 0.005 | 0.011 |
| 20-Jun-12 | NM | 0.027 | 0.014 | 0.009 | 0.003 | 0.164 | 0.06 | 0 | 0.054 | 0.019 | 0.039 |
| 20-Jul-12 | NM | 0.024 | 0.002 | 0.009 | 0.005 | 0.151 | 0.035 | 0 | 0.033 | 0.013 | 0.032 |
| 21-Aug-12 | 0.003 | 0.019 | 0.008 | 0.003 | 0.006 | 0.147 | 0.045 | 0 | 0.044 | 0.01 | 0.02 |

Notes:

- All vacuum and/or pressure readings are reported in inches of water column ("H₂O).
 NM = not measured; was covered with pallets or other surface obstructions

Table 3
Summary of Treatment System Data
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9
Page 1 of 2

| Location | Header Vacuum | | | | | | Header Air Flow | | | | | |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------|--------|--------|--------|--------|--------|
| | PG-101 | PG-102 | PG-103 | PG-104 | PG-105 | PG-106 | PG-101 | PG-102 | PG-103 | PG-104 | PG-105 | PG-106 |
| Units | " H ₂ O | " H ₂ O | " H ₂ O | " H ₂ O | " H ₂ O | " H ₂ O | cfm | cfm | cfm | cfm | cfm | cfm |
| Date | | | | | | | | | | | | |
| 17-Dec-09 | NF | 11.5 | NM | NF | NF | NF | NF | NM | NM | NF | NF | NF |
| 14-Jan-10 | NF | 40 | NM | NF | NF | NF | NF | 94 | NM | NF | NF | NF |
| 17-Feb-10 | NF | 4.2 | NM | NF | NF | NF | NF | 16 | NM | NF | NF | NF |
| 18-Mar-10 | NF | 1.95 | NM | NF | NF | NF | NF | 15 | NM | NF | NF | NF |
| 13-Apr-10 | NF | 2.85 | 13.0 | NF | NF | NF | NF | 73 | 233 | NF | NF | NF |
| 18-May-10 | NF | 3.95 | 13.0 | NF | NF | NF | NF | 83 | 212 | NF | NF | NF |
| 15-Jun-10 | NF | 2.60 | 15.5 | NF | NF | NF | NF | 65 | 225 | NF | NF | NF |
| 14-Jul-10 | NM | 1.75 | 4.10 | NM | NM | NF | NM | 26 | 75 | NM | NM | NF |
| 13-Aug-10 | 3.75 | 1.30 | 3.75 | 3.70 | 3.75 | NF | 67 | 19 | 73 | 65 | 82 | NF |
| 14-Sep-10 | 3.15 | 0.85 | 3.25 | 3.15 | 3.2 | NF | 68 | 18 | 74 | 65 | 72 | NF |
| 14-Oct-10 | 3.45 | 0.91 | 3.50 | 3.45 | 3.55 | NF | 70 | 32 | 76 | 66 | 72 | NF |
| 22-Nov-10 | 4.05 | 0.30 | 4.15 | 4.00 | 4.2 | NF | 76 | 14 | 80 | 70 | 82 | NF |
| 16-Dec-10 | 4.05 | 0.30 | 4.05 | 3.95 | 4.05 | NF | 70 | 14 | 85 | 75 | 94 | NF |
| 19-Jan-11 | 3.55 | 0.85 | 3.60 | 3.55 | 3.6 | NF | 82 | 39 | 135 | 92 | 164 | NF |
| 21-Feb-11 | 3.4 | 1.55 | 3.50 | 3.40 | 3.5 | NF | 116 | 36 | 105 | 78 | 144 | NF |
| 11-Mar-11 | 3.35 | 2.00 | 3.35 | 3.35 | 3.4 | NF | 98 | 73 | 65 | 76 | 141 | NF |
| 21-Apr-11 | 3.1 | 1.65 | 3.10 | 3.05 | 3.15 | NF | 97 | 84 | 103 | 106 | 170 | NF |
| 24-May-11 | 3.0 | 2.60 | 3.10 | 3.00 | 3.10 | NF | 89.61 | 53.94 | 89.61 | 71.34 | 87.87 | NF |
| 21-Jun-11 | 3.0 | 2.70 | 3.00 | 3.00 | 3.10 | NF | 115.71 | 90.48 | 106.14 | 87.87 | 96.57 | NF |
| 21-Jul-11 | 3.1 | 2.80 | 3.20 | 3.10 | 3.10 | NF | 113.97 | 87.00 | 100.92 | 80.48 | 140.07 | NF |
| 29-Aug-11 | 3.00 | 2.90 | 3.00 | 3.00 | 3.00 | NF | 106.14 | 69.60 | 93.09 | 75.17 | 100.31 | NF |
| 26-Sep-11 | 2.90 | 1.40 | 2.90 | 2.90 | 2.90 | NF | 95.70 | 63.95 | 105.27 | 90.48 | 127.02 | NF |
| 28-Oct-11 | 2.70 | 1.20 | 2.80 | 2.70 | 2.80 | NF | 63.51 | 39.67 | 101.79 | 86.13 | 114.84 | NF |
| 18-Nov-11 | 2.50 | 1.00 | 2.50 | 2.40 | 2.50 | NF | 73.08 | 55.68 | 107.88 | 72.65 | 115.71 | NF |
| 22-Dec-11 | 2.40 | 1.80 | 2.50 | 2.40 | 2.40 | NF | 63.95 | 52.20 | 62.21 | 72.65 | 72.65 | NF |
| 20-Jan-12 | 2.40 | 1.60 | 2.40 | 2.55 | 2.50 | NF | 99.18 | 74.39 | 92.22 | 74.39 | 108.75 | NF |
| 21-Feb-12 | 2.30 | 1.70 | 2.40 | 2.30 | 2.40 | NF | 93.09 | 83.96 | 90.48 | 86.13 | 100.92 | NF |
| 16-Mar-12 | 2.20 | 1.20 | 2.20 | 2.20 | 2.20 | NF | 140.94 | 99.18 | 139.20 | 72.65 | 166.17 | NF |
| 20-Apr-12 | 2.00 | 1.90 | 2.20 | 2.10 | 2.20 | NF | 127.89 | 79.61 | 129.63 | 63.95 | 107.88 | NF |
| 17-May-12 | 2.25 | 1.60 | 2.30 | 2.20 | 2.30 | NF | 96.57 | 113.10 | 75.69 | 64.82 | 80.04 | NF |
| 12-Jun-12 | 2.45 | 2.00 | 2.30 | 2.50 | 2.50 | NF | 159.21 | 106.14 | 120.06 | 139.20 | 103.53 | NF |
| 20-Jul-12 | 2.40 | 1.80 | 2.50 | 2.40 | 2.45 | NF | 125.28 | 93.96 | 110.49 | 104.40 | 111.36 | NF |
| 21-Aug-12 | 2.80 | 1.90 | 2.85 | 2.80 | 2.85 | NF | 32.71 | 30.45 | 44.81 | 83.52 | 67.86 | NF |

Location Key

- PG-101 = Suction Pits 05, 06, 07 and 08 (pipe 1 of 2).
- PG-102 = interior of former varnish pit.
- PG-103 = horizontal suction points through former varnish pit's north, west, and south walls.
- PG-104 = Suction Pit 05, 06, 07, and 08 (pipe 2 of 2).
- PG-105 = Suction Pit 01 and 02.
- PG-106 = not connected.

Notes:

- Vacuum and pressure data are reported in inches of water.
- Air flow data are based on measured air velocity and are reported in cubic feet per minute.
- NM = not measured
- NF = no flow as the piping associated with these measurement locations was not open/ connected at the time of measurement.

Table 3 (Continued)
Summary of Treatment System Data
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9
Page 2 of 2

| Location Units | Pre-Carbon | | | Mid-Carbon | | Post-Carbon | | |
|-------------------|--------------------------------|------------|------------|------------|------------|-------------|------------|-------------|
| | Pressure " H ₂ O | Temp °F | PID ppm | Temp °F | PID ppm | Temp °F | PID ppm | Flow cfm |
| Date | | | | | | | | |
| 17-Dec-09 | 10.5 | 103 | 0.0 | 98 | 0.0 | 67 | 0.0 | 120 |
| 14-Jan-10 | 7.5 | 114 | 46.5 | 102 | 18.7 | 91 | 13.9 | 73 |
| 17-Feb-10 | 9.5 | 114 | 0.0 | 111 | 0.0 | 99 | 0.0 | 88 |
| 18-Mar-10 | 9.0 | 115 | 0.0 | 108 | 0.0 | 98 | 0.0 | 98 |
| 13-Apr-10 | 9.0 | 118 | 4.7 | 109 | 2.0 | 98 | 1.1 | 225 |
| 18-May-10 | 8.5 | 108 | 3.0 | 103 | 2.2 | 94 | 1.7 | 220 |
| 15-Jun-10 | 10.0 | 114 | 3.3 | 103 | 0.0 | 89 | 0.0 | 245 |
| 14-Jul-10 | 11.0 | 112 | 5.2 | 106 | 4.1 | 98 | 1.9 | 263 |
| 13-Aug-10 | 10.5 | 118 | 2.6 | 112 | 2.0 | 103 | 1.3 | 255 |
| 14-Sep-10 | 13.0 | 100 | 2.2 | 90 | 1.1 | NM | 0.5 | 461 |
| 14-Oct-10 | 15.5 | 104 | 0.3 | 104 | 0.0 | NM | 0.0 | 475 |
| 22-Nov-10 | 15.5 | 102 | 0.4 | 97 | 0.0 | 94 | 0.0 | 490 |
| 16-Dec-10 | 15.5 | 94 | 15.1 | 89 | 11.8 | 88 | 3.2 | 493 |
| 19-Jan-11 | 16.5 | 94 | 1.0 | 88 | 1.1 | 86 | 0.2 | 516 |
| 21-Feb-11 | 16 | 91 | 0.7 | 85 | 0 | 84 | 0 | 462 |
| 11-Mar-11 | 15.5 | 97 | 189 | 91 | 69.2 | 91 | 5.7 | 522 |
| 21-Apr-11 | 22.5 | 98 | 1.1 | NM | 0 | 97 | 0 | 220 |
| 24-May-11 | 28.5 | 111 | 6.3 | NM | 1.5 | 104 | 0 | 202.71 |
| 21-Jun-11 | 30 | 127 | 4.4 | NM | 0.7 | 112 | 0.1 | 181.83 |
| 21-Jul-11 | 41 | 137 | 0.0 | NM | 0.0 | 120 | 0.0 | 175.74 |
| 29-Aug-11 | 39 | 132 | 5.3 | NM | 0.0 | 121 | 0.0 | 176.61 |
| 26-Sep-11 | 46 | 132 | 1.1 | NM | 1.0 | 116 | 0.0 | 172.26 |
| 28-Oct-11 | 46 | 116 | 7 | NM | 4.6 | 99 | 0.0 | 186.18 |
| 18-Nov-11 | 46 | 124 | 3.4 | NM | 1.0 | 114 | 0.0 | 178.35 |
| 22-Dec-11 | 46 | 116 | 0.2 | NM | 0.0 | 118 | 0.0 | 185.31 |
| 20-Jan-12 | 44 | 114 | 0.00 | 80.1 | 0.0 | 112 | 0.0 | 180.96 |
| 21-Feb-12 | 45 | 118 | 6.4 | 88 | 0 | 115 | 0.0 | 181.83 |
| 16-Mar-12 | 44 | 124 | 2.2 | 91 | 1.4 | 114 | 0.5 | 154.86 |
| 20-Apr-12 | 44 | 107 | 2.3 | 89 | 2.5 | 112 | 0.8 | 134.85 |
| 17-May-12 | 48 | 124 | 2.2 | 87 | 0.9 | 112 | 1.5 | 159.21 |
| 20-Jun-12 | 48 | 134 | 2.1 | 89 | 1.3 | 114 | 0.7 | 167.91 |
| 20-Jul-12 | 48 | 139 | 2.7 | NM | 2.4 | 120 | 1.4 | 147.03 |
| 21-Aug-12 | NM | NM | NM | NM | NM | 120 | 0.6 | 53.94 |

Notes:

- Vacuum and pressure data are reported in inches of water.
- Air flow data are based on measured air velocity and are reported in cubic feet per minute.
- Temperature reported in degrees Fahrenheit.
- PID = photoionization detector reading reported in parts per million.
- NM = not measured