Environmental Resources Management

5788 Widewaters Parkway
DeWitt, New York 13214
315-445-2554
315-445-2543 (fax)

13 October 2011

Michael J. Hinton, P.E.
Environmental Engineer 2
New York State Department of Environmental Conservation
Division of Environmental Remediation - Region 9
270 Michigan Avenue
Buffalo, New York 14203

RE: Monthly Progress Report – July and August 2011
Greif, Inc. Facility – Tonawanda, New York
NYSDEC VCP Number V00334-9

Key Actions This Period:

- Performed routine operations and maintenance (O&M) on the Pilot 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 in the sub-slab on 26 September 2011 is presented in Figure 2.
- Collection of ground water samples from 15 wells for the post-remedial construction baseline ground water sampling was performed on 22 and 23 September 2011.
- Five drums of non-hazardous soil cuttings associated with the installation of new monitoring wells MW-26 and MW-27 were transported from the site on 29 September 2011.
- Evaluation of Pilot SSD System data for preparation of a report and plan for SSD system modifications.

Problems / Resolutions:

- The NYSDEC performed a hazardous waste compliance inspection of the facility on 30 August 2011. Five drums of non-hazardous waste generated in August 2011 during the installation of new

monitoring wells MW-26 and MW-27 were not fully labeled as non-hazardous wastes due to a lack of appropriate drum labels at the Site. The NYSDEC advised Greif of this deficiency. ERM properly labeled the drums and provided the NYSDEC and Greif with information documenting a non-hazardous waste determination for these five drums. Drum labels will be routinely re-stocked in a timely manner so that any future drums generated at the Site will be fully labeled on the same day the drums are generated.

- Monitoring wells MW-5 and MW-27 were not sampled because MW-5 was covered by a large waste container that could not be readily moved. Well MW-27 had ground water in it, but the ground water did not recover quickly enough for sampling after purging of the first well volume. ERM will coordinate with Greif prior to the next ground water sampling event to ensure that the necessary wells are accessible. One-half of a ground water well volume will be removed from well MW-27 during future sampling events to ensure that sufficient sample volume is available for laboratory analysis.

Analytical Data Received:

- None.

Documents Submitted:

- Monthly Progress Report for July and August 2011 dated 15 September 2011.

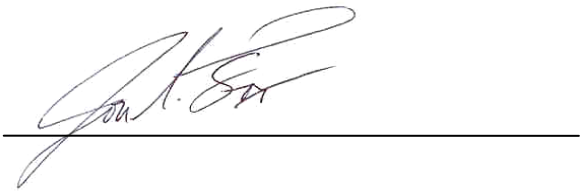
Anticipated Actions – October 2011:

- Routine O&M of the Pilot SSD System and DNAPL recovery equipment and adjustment of extraction and recovery parameters as necessary based on Site data and observations.
- Submission of a SSD System Pilot Test Report and proposed design modifications for the SSD System.
- Compilation of data from remedial construction activities and planning for preparation of a Site Management Plan and Final Engineering Report.
- Coordination with NYSDEC and Greif on their preparation of a deed restriction for the Site.

NYSDEC-Approved Field Decisions:

- None.

Prepared By:



Jon S. Fox, P.G.
Senior Consultant

Date: 13 October 2011

Cc: Pete Gruene (Sonoco)
Mike Sunderland (Sonoco)
Patrick Wolfe (Greif)
James Charles, Esq. (NYSDEC)
Matt Forcucci (NYSDOH)
Gregory Sutton, P.E. (NYSDEC)
A. Joseph White (NYSDEC)
John Kuhn (ERM)
John Mohlin, P.E. (ERM)
Rob Sents (ERM)
Jason Reynolds (ERM)

N

MW-4
GRAVEL
OVERHEAD DOOR
TRUCK BAY
VAC-50
VAC-49
CONCRETE
VAC-35
VAC-34
VAC-46
SP-08
VAC-48
VAC-47
VAC-37
VAC-36
VAC-33
SP-06
VAC-32
VAC-31
LOADING DOCKS
VAC-51
VAC-45
VAC-30
VAC-52
MW-23
ASPHALT PAVEMENT
VAC-44
FIBER DRUM RECYCLING AREA
VAC-53
MW-22
VAC-43
VAC-41
SP-07
VAC-39
VAC-38
VAC-29
VAC-28
GRASS
CON-11
VAC-42
VAC-40
PLANT AREA
MW-21
CON-08
CON-07
CON-03
VAC-06
VMP-4
FORMER VARNISH PIT
MW-13
CON-01
FORMER VARNISH UST AREA
MW-10
MW-14
RW-5
RW-4
RW-6
VAC-08
VAC-27
CON-09
CON-02
VAC-07
VAC-09
VMP-6
MW-2
CON-10
CON-04
VAC-05
MW-20
VAC-01
RW-1
VAC-17
VAC-18
VAC-19
SP-05
OFFICE AREA
VAC-04
CON-12
CON-06
VMP-5
VMP-2
RW-2
MW-19
CON-05
VAC-03
VAC-02
APW-3
MW-12
VMP-1
VAC-20
CONCRETE WALL
VMP-3
MW-11
VAC-10
SHORT TRUCK BAY
RW-3
MW-18
VAC-11
PIPE TRENCH
VAC-22
ABAN-FS LINES
MW-9
SP-01
VAC-21
SP-04
MW-7A
VAC-13
VAC-15
VAC-12
SP-02
VAC-23
VAC-24
STAIRS
TRENCH
MW-25
BOILER
VAC-25
SP-03
VAC-26
TREATMENT BUILDING
GRAVEL
FLAMMABLES ROOM
OVERHEAD DOOR
VAC-14
ELECTRIC TRANSFORMER
VAC-16
OVERHEAD DOOR
OVERHEAD DOOR
MW-1A
CONCRETE WALK
FORMER EXTENT OF SHORT TRUCK BAY
SPHALT WALK
CONCRETE
STAIRS
ASPHALT WALK
GRASS
VAULT W/METAL DOORS
GRASS
GRASS
GRASS
GRASS
GRAVEL
GRAVEL
GRAVEL
GRAVEL

LEGEND

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

0 20 30 40 60 80
GRAPHIC SCALE IN FEET

Map Source: Wm. Schutt & Associates, P.C., 37 Central Ave, Lancaster, NY, Survey File: D/01351/03, WSA Proj.#01351.

TITLE

SAMPLE AND MEASUREMENT LOCATIONS GREIF FACILITY-TONAWANDA, NEW YORK NYSDEC VCP NUMBER V00334-9

PREPARED FOR
SONOCO PRODUCTS COMPANY

Environmental Resources Management

SCALE	FIGURE
GRAPHIC	1

DATE: 2-Aug-2011

DRAWN:	JOB NO.:	FILE NAME:
EMF	0129254.01	0129254-01-007

LEGEND

- Horizontal Suction Point Location
- Vertical Suction Point Location
- ▲ 0.12 — Vacuum Monitoring Point Location (vacuum in " H_2O)
- NM — Not Measured
- Estimated Extent of Sub-Floor Vacuum
- Former Varnish Pit
- Man Door
- Concrete Pad

NOTES:

1. " H_2O = inches of water column

0 20 30 40 60 80

SCALE: 1"=20'
GRAPHIC SCALE IN FEET

Map Source: Wm. Schutt & Associates, P.C., 37 Central Ave, Lancaster, NY, Survey File: D/01351/03, WSA Proj.#01351.

TITLE

SUBSURFACE VACUUM DISTRIBUTION
26 SEPTEMBER 2011
GREIF FACILITY-TONAWANDA, NEW YORK

PREPARED FOR
SONOCO PRODUCTS COMPANY

Environmental Resources Management

SCALE	FIGURE
GRAPHIC	2

DRAWN:	JOB NO.:	FILE NAME:	DATE
EMF	0112477.01	0129254-01-012	30-Sept. 2011

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

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/Pressure Readigns
Greif Inc. Tonawanda, NY
NYSDEC VCP Number V00334-9

Location	Vac-01	Vac-02	Vac-03	Vac-04	Vac-05	Vac-06	Vac-07	Vac-08	Vac-09	Vac-10	Vac-11	Vac-12	Vac-13	Vac-14
Date														
16-Jun-10	0.1175	0.1375	0.1375	0	0.1425	0.1625	0.095	0.0325	0	0.10	0.0950	0	NM	0
14-Jul-10	1.65	1.45	0.47	0	0.68	0.46	0.125	0.0525	0	0.1625	0.16	0	0	0
13-Aug-10	1.3	1.25	0.46	0	0.65	0.45	0.135	0.07	0	0.19	0.175	0	0	NM
14-Sep-10	0.8	NM	0.29	0	0.28	0.195	0.055	0.015	0	NM	0.125	0	0	0
14-Oct-10	0.82	0.84	0.29	0	0.28	0.185	0.05	0.015	0	0.1375	0.12	0	0	NM
22-Nov-10	0.29	2.3	0.49	0	0.35	0.28	0.105	0.0025	0	0.155	0.135	0	NM	NM
16-Dec-10	0.26	2.1	0.42	0	0.2	0.14	0.075	0	0	0.13	0.105	0	0	NM
19-Jan-11	0.77	2	0.41	0	0.24	0.18	0.1	NM	0	0.155	0.125	0	NM	0
21-Feb-11	1.35	1.8	0.4	0	NM	0.17	0.1	0	0	NM	0.12	NM	0	0
11-Mar-11	1.8	2.25	0.5	0	NM	0.22	NM	0.01	0	NM	0.12	0	0	NM
21-Apr-11	1.35	2	0.45	0	0.25	0.2	0.1025	0	0	0.155	0.135	0	0	0
24-May-11	2.15	2.05	0.47	0	0.35	0.28	0.1325	0.0275	0	0.1625	0.15	0	NM	0
21-Jun-11	2.05	2.1	0.46	0	0.45	0.4	0.165	0.0575	0	0.19	0.18	0	NM	0
21-Jul-11	2.55	2.25	0.46	0	0.62	0.55	0.2	0.1	0	0.21	0.21	0	0	0
29-Aug-11	2.3	2.2	0.44	0	0.48	0.4	0.155	0.055	0	0.15	0.145	0	0	0
26-Sep-11	1.3	NM	0.46	0	0.44	0.36	0.155	0.06	0	0.1775	0.16	0	0.0025	0

Location	Vac-15	Vac-16	Vac-17	Vac-18	Vac-19	Vac-20	Vac-21	Vac-22	Vac-23	Vac-24	Vac-25	Vac-26	Vac-27	Vac-28
Date														
16-Jun-10	0	NM	0.0025	0.25	0.42	0.175	0	0.0075	0	0	0.089	0.020	0.005	0.0175
14-Jul-10	0	0	NM	0.31	0.54	0.205	0	0	NM	NM	NM	NM	0.005	0.01
13-Aug-10	0	0	0.0025	0.31	0.52	NM	0	0	0	0	0.08	0.02	0.005	0.025
14-Sep-10	0	0	0	0.165	0.31	0.075	0	0	0	0	0.08	0.015	0.005	0.005
14-Oct-10	NM	0	0	0.18	0.35	0.105	0	0	0	0	0.08	0.015	0.0025	0.005
22-Nov-10	0	0	0	0.2	0.35	0.1	0	0	0	0	0.08	0.02	0.0025	0.0025
16-Dec-10	0	0	0	0.145	0.29	0.08	0	0	0	0	0.055	0.01	0	0.0025
19-Jan-11	0	0	0	0.15	0.29	0.08	0	0	0	0	0.075	0.02	0	0.0075
21-Feb-11	0.005	0	NM	0.18	0.35	NM	0	0.0125	0	0	0.0675	0.035	0.015	0.01
11-Mar-11	0	0	0	0.1875	0.34	0.12	0	0	0	0	0.08	0.0.25	0.01	0.02
21-Apr-11	0	0	0	0.18	0.32	0.105	0	0.01	0	0	0.08	0.0325	0.01	0.0125
24-May-11	0	0	0	0.215	0.36	0.1475	0	0	0	0	0.0775	0.03	0.015	0.0175
21-Jun-11	0	0	NM	0.23	0.39	0.16	0	0	0	0	0.085	0.03	0.02	0.02
21-Jul-11	0	0	NM	0.24	0.39	0.17	0	0.0175	0	0	0.1	0.025	0.02	0.035
29-Aug-11	0	0	NM	0.21	0.32	0.12	0	0	0	0	0.09	0.0225	0.0175	0.02
26-Sep-11	0	0	NM	0.205	0.32	0.12	0.0025	0	0	0	0.0725	0.025	0.0175	0.0175

Table 2
Summary of VAcuum/Pressure Readigns
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

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

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

	Header Vacuum						Header Air Flow					
Location	**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_2O**	**" H_2O**	**" H_2O**	**" H_2O**	**" H_2O**	**" H_2O**	**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

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; negative data represent vacuum; positive data represent pressure.
- 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 measurment.

Table 3 (Continued)
Summary of Treatment System Data
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9
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	Pre-Carbon			Mid-Carbon		Post-Carbon		
Location	**Pressure**	**Temp**	**PID**	**Temp**	**PID**	**Temp**	**PID**	**Flow**
Units	**" H_2O**	**°F**	**ppm**	**°F**	**ppm**	**°F**	**ppm**	**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

Notes:

- Vacuum and pressure data are reported in inches of water; negative data represent vacuum; positive data represent pressure.
- 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