Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management
Contractors: EA Engineering and Preferred Environmental Services

EA Engineering Job No: 1447429
Site No: 152140
EA Project Manager: James Hayward

DAILY REPORT

Day:	S	M	T	W	TH	F	S

Date: 10-May-12
REPORT No.
PAGE No. 1

PREPARED BY: Rob Peterson TITLE: Geologist

WEATHER	Bright Sun	Partly Cloudy	Overcast	Rain	Snow
TEMP	To 32	32-50	50-70	70-85	85 and up
WIND	Light	Moderate	High		
HUMIDITY	Dry	Moderate	Humid		
WIND DIR	NE	NW	SE	SW	
	N	S	E	W	

AVERAGE FIELD FORCE

Name of Contractor	Title	Hours Worked	Remarks
Rob Peterson	Geologist	10:11 - 11:00	EA Engineering

VISITORS

Name	Time (From - To)	Representing	Remarks
None	NA	NA	NA

EQUIPMENT AT THE SITE I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W	4. Velocity & Temperature Meter - W	

OPERATION & MAINTENANCE ACTIVITIES

EA/Preferred Site Representative: Rob Peterson - EA

DESCRIPTION OF WORK PERFORMED AND OBSERVED

On May 9, 2012 Verizon installed a phone line to Treatment System #1 and Gray Electric installed an additional relay in System #1 control box. The relay was installed in order for the auto-dialer (Sensaphone) to monitor system power supply. The phone line was connected to the Sensaphone mounted on the control panel inside Treatment System #1. The Sensaphone was installed by Gray Electric on April 30, 2012. The Senaphone was programmed by EA with the following parameters: Date & Time, zones (Temp. & System Power Supply), alarm limits, voice messages (zones & site ID), and dial out telephone numbers. Currently the dial out number is set for Rob Peterson (EA). The Sensaphone telephone number is 631-752-5404 and the alarm acknowledgment code is 555. Once the Sensaphone was programmed, EA simulated a power loss alarm and the Sensaphone dialed out and performed correctly.

10:11 - Rob Peterson (EA) on-site. System #1 and System #2 operating upon arrival.
10:15 - Start System #2 O&M. NOTE: VOC monitoring of influent and effluent was collected in parts per billion (ppb) to achieve greater definition in concentration data (see page 5 for concentrations).
10:33 - System #2 O&M complete. System performing satisfactorily.
10:36 - Start System #1 O&M. NOTE: VOC monitoring of influent and effluent was collected in parts per billion (ppb) to achieve greater definition in concentration data (see page 3 for concentrations).
10:55 - System #1 O&M complete. System performing satisfactorily.
11:00 - O&M for both systems complete. EA locked both systems and all parties off-site.

[x] - Designates report is continued on additional pages

EA Engineering

6712 Brooklawn Parkway, Suite 104, Syracuse, New York 13211

National Heatset Printing Site, Farmingdale, NY
Contract No. D004441, Site No. 152140
Monitoring Table May 10, 2012

DATE: 05/10/2012 **DAY:** Thursday **TECHNICIAN:** Rob Peterson

Weather: 65F, Partly Cloudy

TCE Groundwater Treatment System #1 STATUS: ON OFF

I: System Data Collection

Total Run Time Meter Reading: 11,160.3 **hours**
System Running at: 30.0 **Hz**

Temperature Monitoring

Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:38	Extracted From Well	TI-01	16.0	60.8	DDC-1
10:38	Extracted From Well	TI-02	17.0	62.6	DDC-2
10:40	Pre-Heater Outlet	TI-03	25.0	77.0	Post Shell and Tubing
10:39	Pre-Heater Input	TI-04	18.0	64.4	Before Shell and Tubing
10:38	After Cooler Outlet	TI-05	24.0	75.2	Post Cooler Reading
10:39	After Cooler Input	TI-06	36.0	96.8	Before Cooler Reading
10:39	Blower Outlet	TI-07	47.0	116.6	Going to Pre-heater
10:40	Between GAC Units	TI-08	24.0	75.2	After GAC #1
10:40	GAC Unit Output	TI-09	24.0	75.2	After GAC #2

Pressure/Vacuum Monitoring

Time	Location	PI/VI-ID	Pressure	Comments
10:37	Discharge to Well	PI-01	2.3 PSI	DDC-1
10:37	Discharge to Well	PI-02	2.4 PSI	DDC-2
10:39	Drum	PI-03	-29.0 in. H2O	Vacuum Reading Going to Blower

Flow Readings

Time	IF-ID	Location	Flow (SCFM)
10:37	FI-01	Extracted From DDC-1	---
10:37	FI-02	Extracted From DDC-2	190

Comments:
1) Flow meter F0-1 not functioning. Air flow visually inspected at DDC-1 well head. Determined that DDC-1 aerating sufficiently. Replacement flow meter is currently on back order and is expected to be installed May 2012.

DATE: 05/10/2012 **DAY:** Thursday **TECHNICIAN:** Rob Peterson

Weather: 65F, Partly Cloudy

TCE Groundwater Treatment System #1

GAC Unit Information

Influent Port

TIME	PID VOC ppb	Temp Deg. F
10:42	4,001	77

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 4.0 ppm.

Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppb	Temp Deg. F
10:45	2,757	75.2

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 2.7 ppm.

Effluent Port

TIME	PID VOC ppb	Temp Deg. F
10:48	905	75.2

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 0.9 ppm.

II: System Maintenance and Observations

Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Bubbling in well sufficient.
DDC-2	Bubbling in well sufficient.

Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	1.0-inch of water detected within sump. Sump pump non-operational

Liquid Levels in Knock-Out Tanks

Comments: No water detected in K/O tanks.

Oil Level on Blower

Comments: Oil quality and levels satisfactory. Oil was changed on 19 April 2012 with Omega SB-220 oil.

Additional Comments:	DDC-2 sump pump is currently on back order and will be installed May 2012. Water will be removed weekly via whale pump until pump is replaced.
	Knock Out Tank #1 pump is non-operational. Pump is currently on back order and will be replaced May 2012. Water will be drained manually if accumulation occurs.
	Flow meter F0-1 not functioning. Air flow visually inspected at DDC-1 well head. Determined that DDC-1 bubbling sufficiently. Replacement flow meter is currently on back order and is expected to be installed May 2012.
	On May 9, 2012 Verizon installed a phone line to Treatment System #1 and Gray Electric installed an additional relay in System #1 control box. The relay was installed in order for the auto-dialer (Sensaphone) to monitor system power supply. The phone line was connected to the Sensaphone mounted on the control panel inside Treatment System #1. The Sensaphone was installed by Gray Electric on April 30, 2012. The Senaphone was programmed by EA with the following parameters: Date & Time, zones (Temp. & System Power Supply), alarm limits, voice messages (zones & site ID), and dial out telephone numbers. Currently the dial out number is set for Rob Peterson (EA). The Sensaphone telephone number is 631-752-5404 and the alarm acknowledgment code is 555.

III: System Evaluation

☒ **System is operating satisfactorily**

EA recommends / implements the following….

IV: Sampling / Lab Data

N/A

DATE: 05/10/2012 **DAY:** Thursday **TECHNICIAN:** Rob Peterson

Weather: 65F, Partly Cloudy

TCE Groundwater Treatment System #2 STATUS: ON OFF

I: System Data Collection

Total Run Time Meter Reading: 13,858.9 hours.
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:16	Carbon Unit Inlet	CA01	25.0	77.0	Carbon Unit #1
10:17	Pre-Heater	PHA01	32.2	90.0	After Shell and Tubing
10:18	Blower Panel	B01	72.0	161.6	Exiting Blower
10:16	After Cooler Outlet	AC01	35.0	95.0	Post Cooler Piping
10:17	Pre-Heater	PHB01	60.0	140.0	Before Shell and Tubing

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:15	Knock-Out Tank	T01	0.0 in. Hg	Vacuum gauge on knock-out tank
10:16	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
10:15	Discharge to Wells	WD2	2.3 PSI	Pressure reading on piping prior to splicing off to both wells
10:18	Blower Panel	BP01	-1.5 in. Hg	Vacuum coming off of blower
10:16	Carbon Unit #2 Outlet	CA2	-4.2 in. Hg	Vacuum exiting GAC #2
10:30	DDC-3	N/A	0.0 PSI	Pressure gauge on well head
10:33	DDC-4	N/A	0.0 PSI	Pressure gauge on well head

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:15	WD01	Injected Air to DDC-3	150
10:15	WD02	Injected Air to DDC-4	150

Comments: None

DATE: 05/10/2012 **DAY:** Thursday **TECHNICIAN:** Rob Peterson

Weather: 65F, Partly Cloudy

TCE Groundwater Treatment System #2

GAC Unit Information

Influent Port GAC#1

TIME	PID VOC ppb	Temp Deg. F
10:19	1,090	71.4

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 1.0 ppm.

Influent Port GAC#2

TIME	PID VOC ppb	Temp Deg. F
10:23	501	72.7

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 0.5 ppm.

Effluent

TIME	PID VOC ppb	Temp Deg. F
10:26	703	72.3

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 0.7 ppm.

II: System Maintenance and Observations

Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling was sufficient.
DDC-4	Bubbling was sufficient.

Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	0.5-inch of water detected in sump. Sump pump operating satisfactorily.
DDC-4	0.5-inch of water detected in sump. Sump pump operating satisfactorily.

Additional Comments:	Sensaphone operational and performing correctly

Liquid Levels in Knock-Out Tanks
Comments: No water was detected within site-glass.

Oil Level on Blower
Comments: Oil quality and levels satisfactory. Oil was changed on 19 April 2012 with Omega SB-220 oil.

III: System Evaluation

☒ **System is operating satisfactorily**

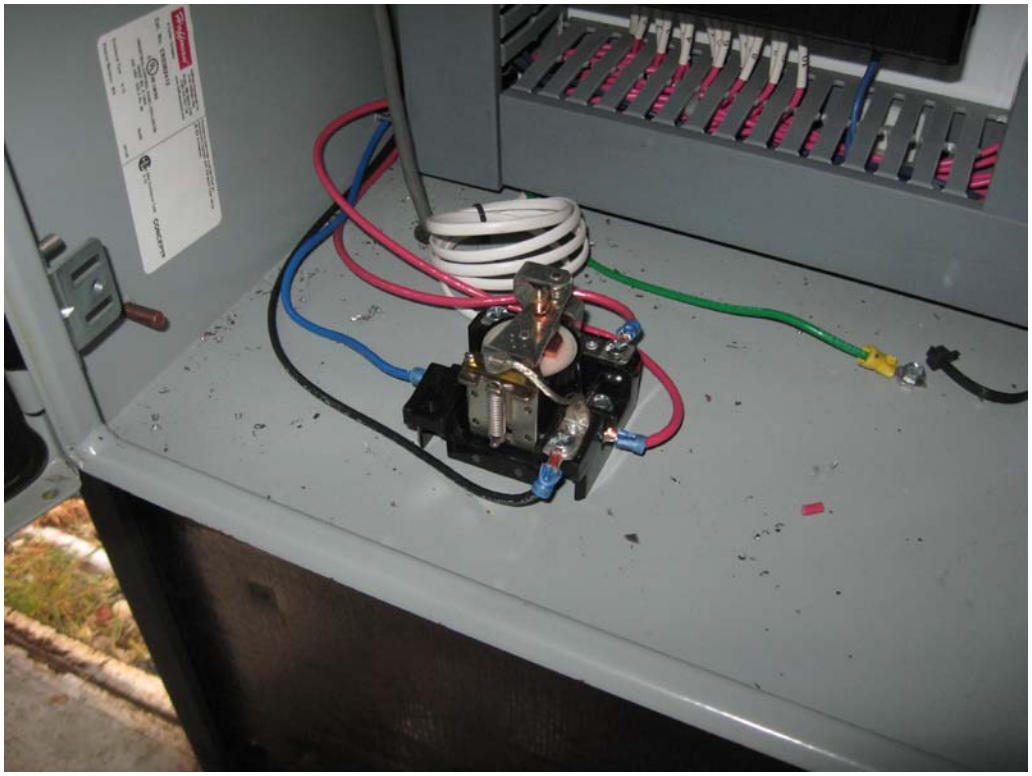
EA recommends / implements the following….

IV: Sampling / Lab Data

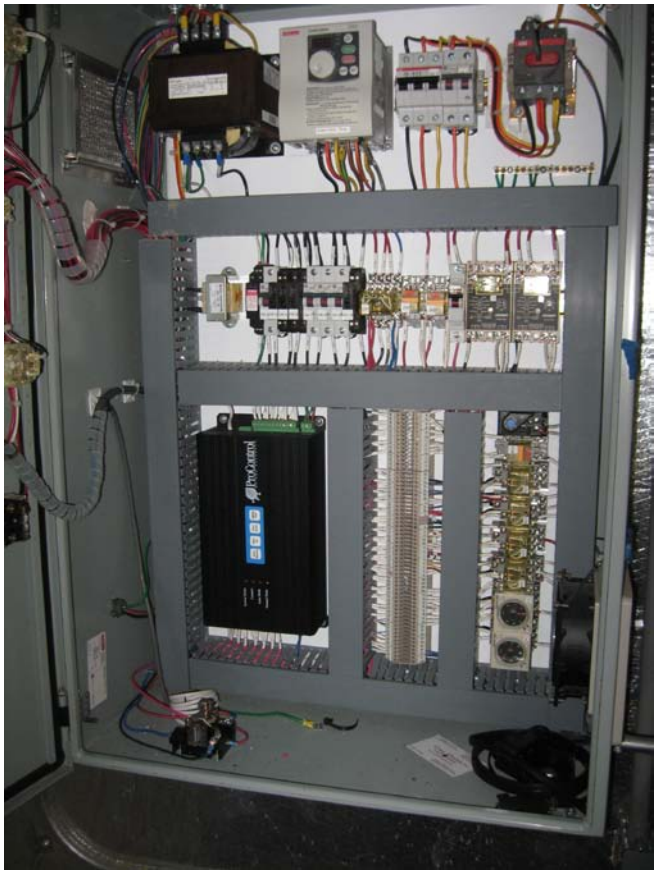
N/A

National Heatset On-site DDC O&M Photolog

10 May 2012



System #1 additional relay and associated connections.



View of Treatment System #1 control panel (interior).