Pelton, Jason M (DEC)

From: Doug Smolensky <dsmolensky@emagin-inc.com>
Sent: Wednesday, August 19, 2020 4:15 PM
To: Pelton, Jason M (DEC); Hesler, Donald (DEC); Sullivan, James (HEALTH); Richard Lenz; mrusso@OYSTERBAY-NY.gov
Cc: edward.hannon@ngc.com; Weber, Fred [US] (AS); Baumert-Moyik, Dianne C [US] (AS); Carol Henry Emery; Joel Balmat; Bill Lais; Todd McAlary; William Wertz; Darius Mali (DMali@Geosyntec.com); Susan Welt (SWelt@Geosyntec.com); Bob Cassese
Subject: Park Soil ISTR Construction Weekly Progress Summary - Week 7/20/2020 - 7/25/2020
Attachments: Table 1, ISTR Cumulative Progress 2020 07 25.pdf; ISTR Phase 2 Photo Log week of 2020 07 20 DRAFT.pdf; CAMP Station Data Log Week of 2020 07 20.pdf

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Weekly Progress Summary for ISTR Construction
Northrop Grumman Systems, Corp.
Operable Unit 3, Bethpage, NY
Reporting Period: July 20 – July 25, 2020

Work completed:

- Completed laying electrical cable and connecting to heater wells in the wellfield.
- Repositioned SCR cabinets in the wellfield and continued electrical connections at the transformer and cabinets.
- Completed grounding of all wellfield equipment (heater wells, SCR cabinets, control panels).
- Mobilized four vapor-phase granular activated carbon vessels (one spare) and two vapor-phase potassium permanganate vessels (one spare).
- Completed leak and pressure testing of the 2-inch carbon steel water piping using compressed air.
- Completed liquid effluent manifold between the Tier 1 treatment system, the three frac tanks, and the pump skid.
- Continued installing process piping and connections to the Tier 1 treatment trailer at McKay Field and within the wellfield.
- Continued installing vapor well stickup extensions and valves.
- Began installation of saddles with ball valves on the manifold to facilitate vapor extraction well connections.
- Began heat tracing 2-inch carbon steel water piping.

Cumulative progress:

See attached file – *Table 1, ISTR Phase 2 Cumulative Progress 2020 07 25.pdf*

Materials imported:

No materials other than process equipment was imported.

CAMP station monitoring summary:

- Two portable stations deployed each day, one upwind and one downwind of the work area to monitor TVOCs and particulates. Station locations determined at beginning of each day based on prevailing wind direction.
- On 7/20, several attempts were needed to successfully calibrate the downwind PID and hence, the unit was not transmitting for most of the day. At 15:00 Pine Environmental delivered replacement PIDs. The replacement PIDs were successfully calibrated. At 17:30 the downwind PID was intentionally alarmed to verify telemetry operation and proper notification. The systems functioned properly.
- Particulate and TVOC data plots for upwind and downwind CAMP stations submitted after each workday are attached for reference.

Analytical results:

No samples collected for lab analysis.

Wastes generated/disposed:

- Decontamination fluids and personal protective equipment (PPE) containerized separately onsite in 55-gallon drums.
- Three drums are currently in use on-site (1 PPE, 1 boot-wash rinsate, and 1 TSCA rinsate drum).
- General construction debris placed in a 30-yard roll off at McKay Field.

Community/Town engagement:

- Project fact sheet can be downloaded from the NG website.
- No contacts with public this week.

Work Plan or design modifications:

None

Schedule:

- Work planned for week of July 27 through August 1, 2020:
  - Continue electrical connections in McKay Field and within the wellfield
  - Install Tier 1 treatment system stack
  - Install vapor-phase granular activated carbon and potassium permanganate vessels
  - Complete heat tracing 2-inch carbon steel water piping.
  - Continue installing process piping and connections to the Tier 1 treatment trailer at McKay Field and within the wellfield.
  - Continue installation of wellheads for vapor extraction wells, pressure monitoring points, temperature monitoring points.
  - Begin installation of communication wiring and system.
  - Continue system commissioning checks.

PHOTOGRAPH LOG – July 20, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Repositioning SCR cabinet

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 20, 2020

Photograph: 2

Description: Fully assembled heater wellhead

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 20, 2020

PHOTOGRAPH LOG – July 21, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Electrical cable and SCR cabinet

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 21, 2020

Photograph: 2

Description: Staging heater well jumping cables for installation

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 21, 2020

PHOTOGRAPH LOG – July 21, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

Description: Offloading vapor phase carbon and potassium permanganate vessels

Location:
McKay Road

Photograph taken by:
EMAGIN

Date:
July 21, 2020

PHOTOGRAPH LOG – July 22, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Process piping within vault

Location:
East side of McKay Road

Photograph taken by:
EMAGIN

Date:
July 22, 2020

Photograph: 2

Description: Process piping into vault on McKay Field Road and locking swing gate (upper right)

Location:
McKay Field Access Road, looking east

Photograph taken by:
EMAGIN

Date:
July 22, 2020

PHOTOGRAPH LOG – July 22, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

Description: Laying out ground wire for the heater wells

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 22, 2020

PHOTOGRAPH LOG – July 23, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Installing the ISTR liquid effluent discharge pump skid

Location:
McKay Field

Photograph taken by:
EMAGIN

Date:
July 23, 2020

Photograph: 2

Description: Emergency generator

Location:
McKay Field

Photograph taken by:
EMAGIN

Date:
July 23, 2020

PHOTOGRAPH LOG – July 23, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

Description: Prepared 2-inch carbon steel water piping for leak and pressure testing

Location:
McKay Field

Photograph taken by:
EMAGIN

Date:
July 23, 2020

PHOTOGRAPH LOG – July 24, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Pulling electrical cable through existing conduit beneath McKay Field Access Road

Location:
McKay Field

Photograph taken by:
EMAGIN

Date:
July 24, 2020

Photograph: 2

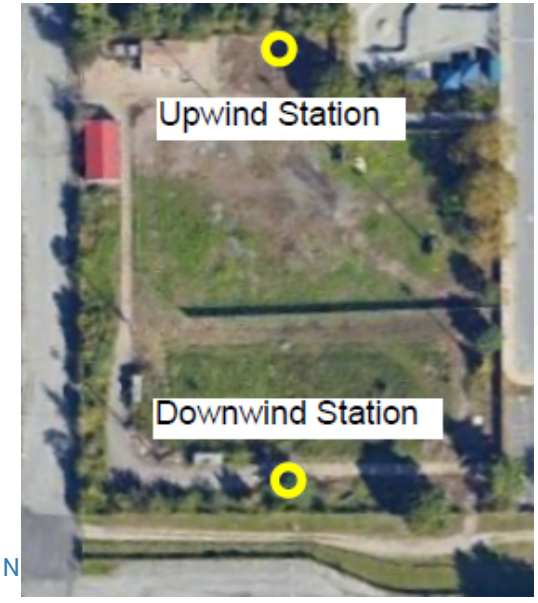
Description: Pressure testing 2-inch steel water line

Location:
McKay Field

Photograph taken by:
EMAGIN

Date:
July 24, 2020

Mon, 20th of Jul 2020, 0:00:00 – 17:20:51
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.012	0.029	0.064

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.006	0.641

NYSDEC DER-10 CAMP action levels:

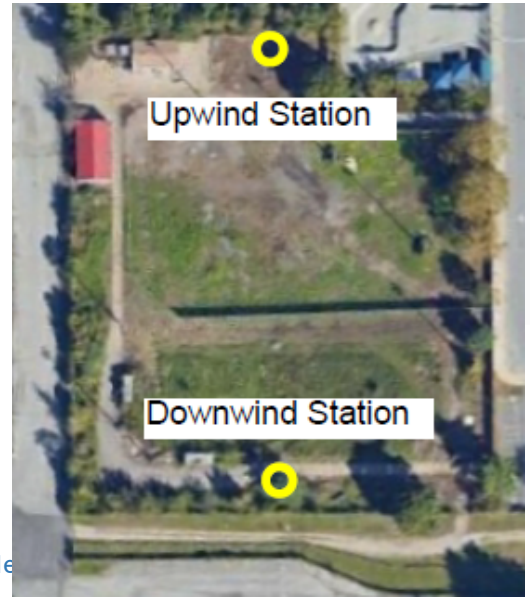
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 41147 - Upwind
S/N 0B357066
Location 947 Stewart Ave, Bethpage, NY 11714, USA

© N

Mon, 20th of Jul 2020, 0:00:00 – 17:21:47
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.017	0.03	0.055

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

NYSDEC DER-10 CAMP action levels:

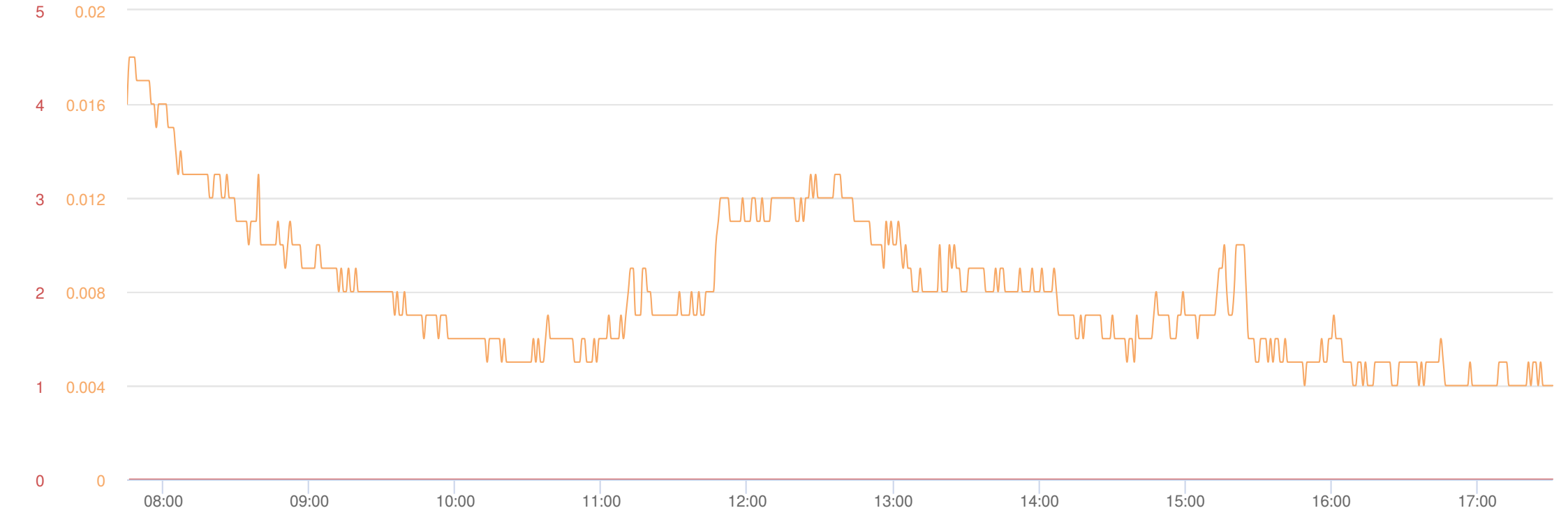
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

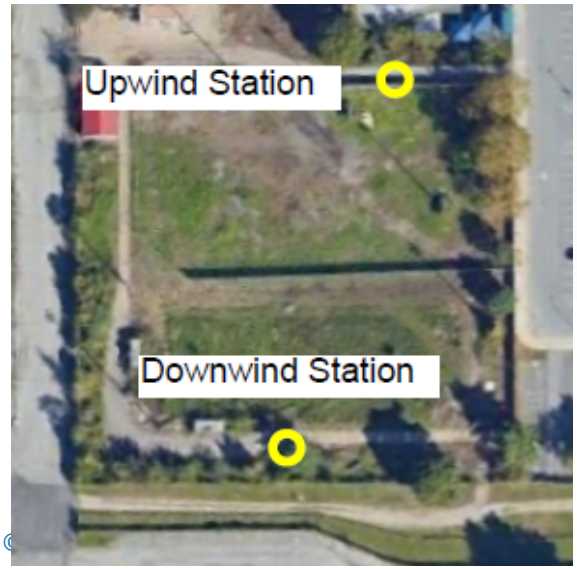
Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name	39875 - Downwind
S/N	0B333738
Location	268 N 7th St, Bethpage, NY 11714, USA

© Ne

Tue, 21st of Jul 2020, 0:00:00 – 18:26:19
(GMT-05:00) Eastern Time (US & Canada)





Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.004	0.008	0.018

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

NYSDEC DER-10 CAMP action levels:

- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name	41147 - Upwind
S/N	0B357066
Location	Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

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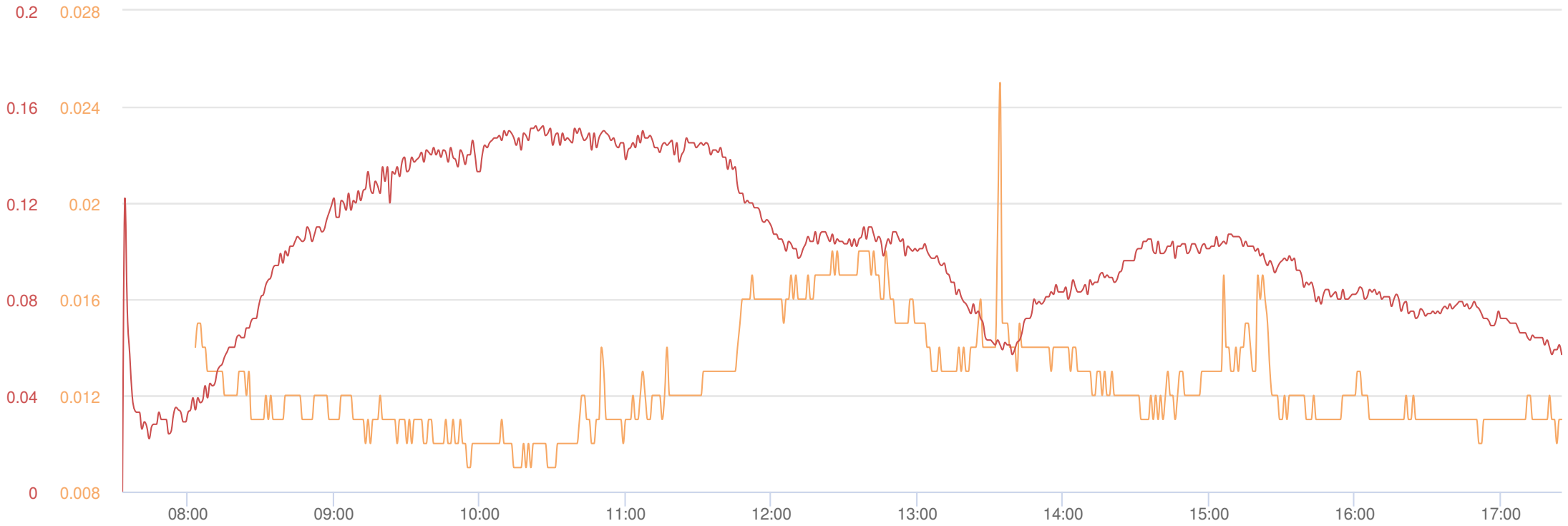
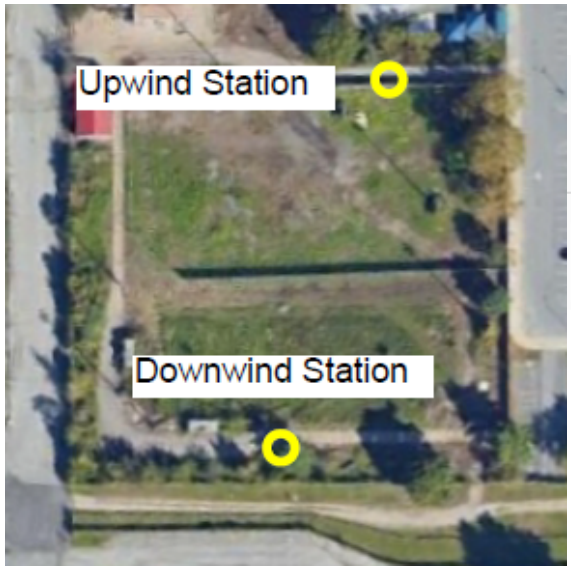
(GMT-05:00) Eastern Time (US & Canada)





Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.009	0.012	0.025

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.1	0.152

NYSDEC DER-10 CAMP action levels:

- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 39875 - Downwind
S/N 0B333738
Location 268 N 7th St, Bethpage, NY 11714, USA

©

07/22/2020 0:00:11 – 07/23/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)

Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.012	0.022	0.037

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

NYSDEC DER-10 CAMP action levels:

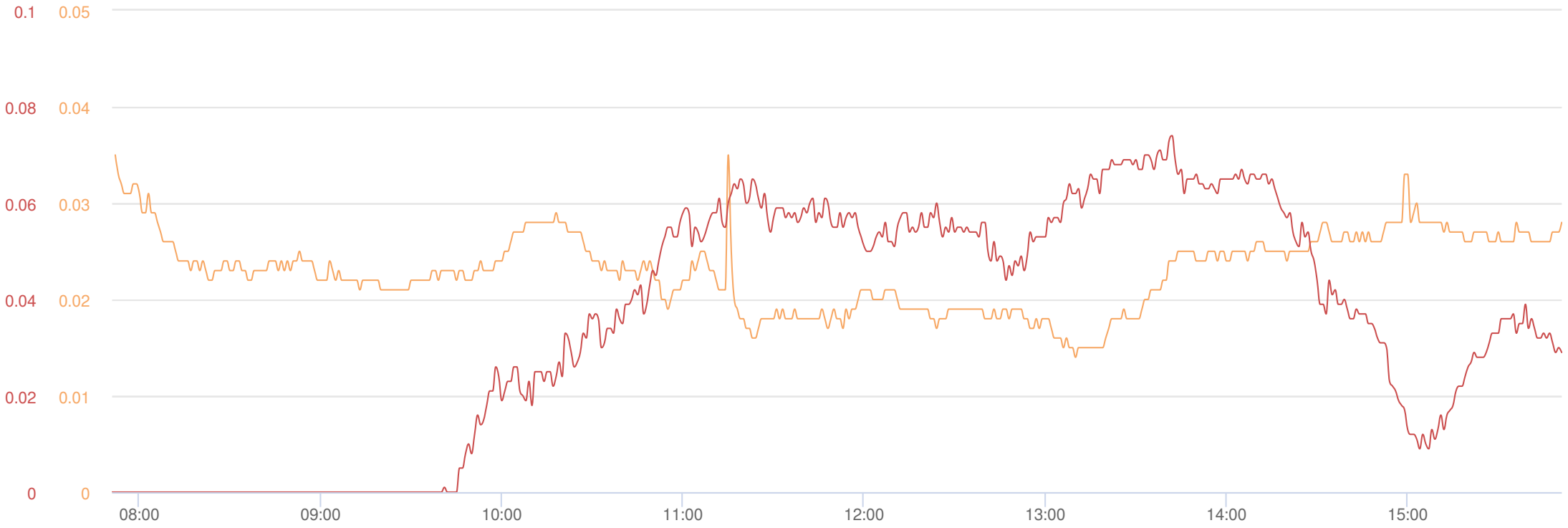
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 41147 - Upwind
S/N 0B357066
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

© Net

07/22/2020 0:00:27 – 07/23/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.014	0.023	0.035

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.035	0.074

NYSDEC DER-10 CAMP action levels:

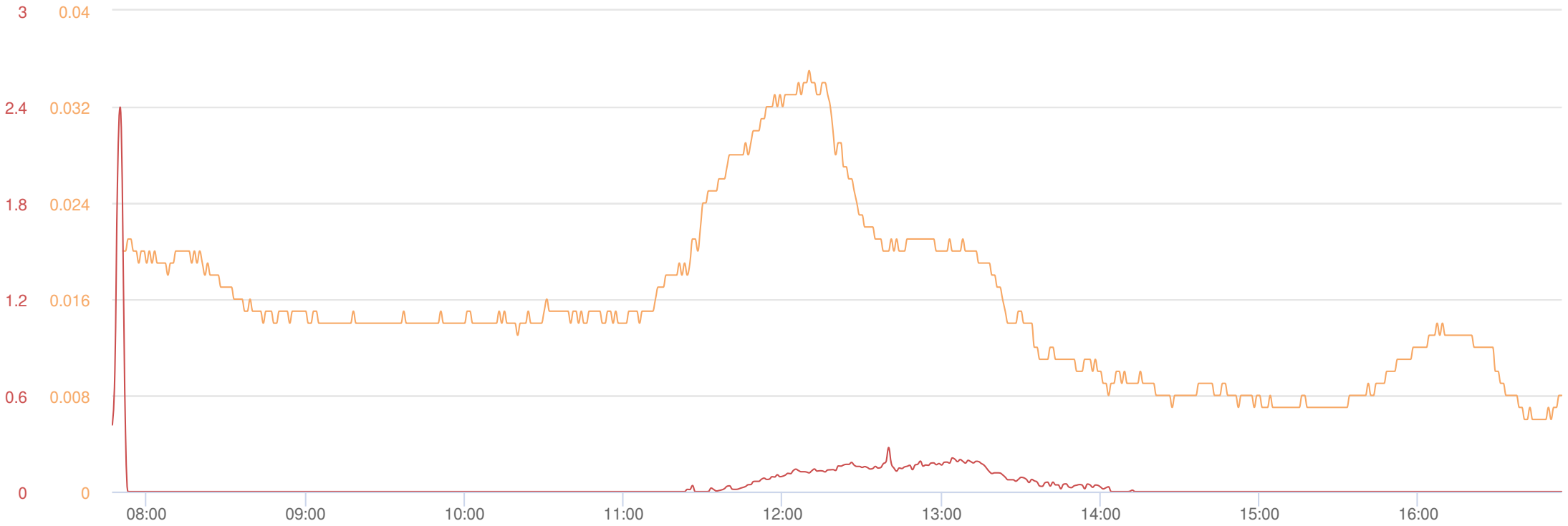
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

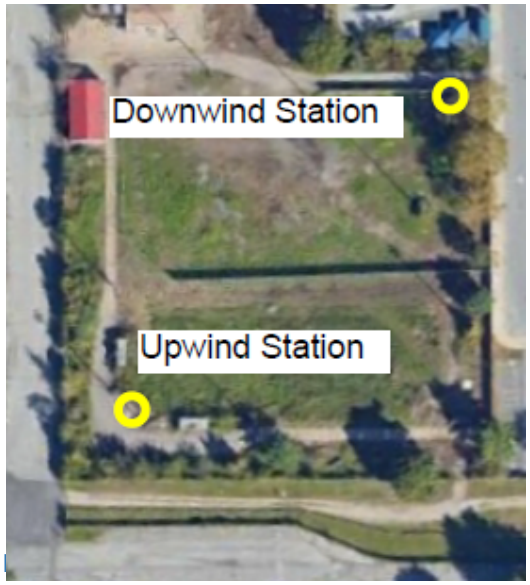
Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 39875 - Downwind
S/N 0B333738
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

© Ne

Thu, 23rd of Jul 2020, 0:00:00 – 16:54:48
(GMT-05:00) Eastern Time (US & Canada)





Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.006	0.015	0.035

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.041	2.397

NYSDEC DER-10 CAMP action levels:

- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 41147 - Upwind
S/N 0B357066
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

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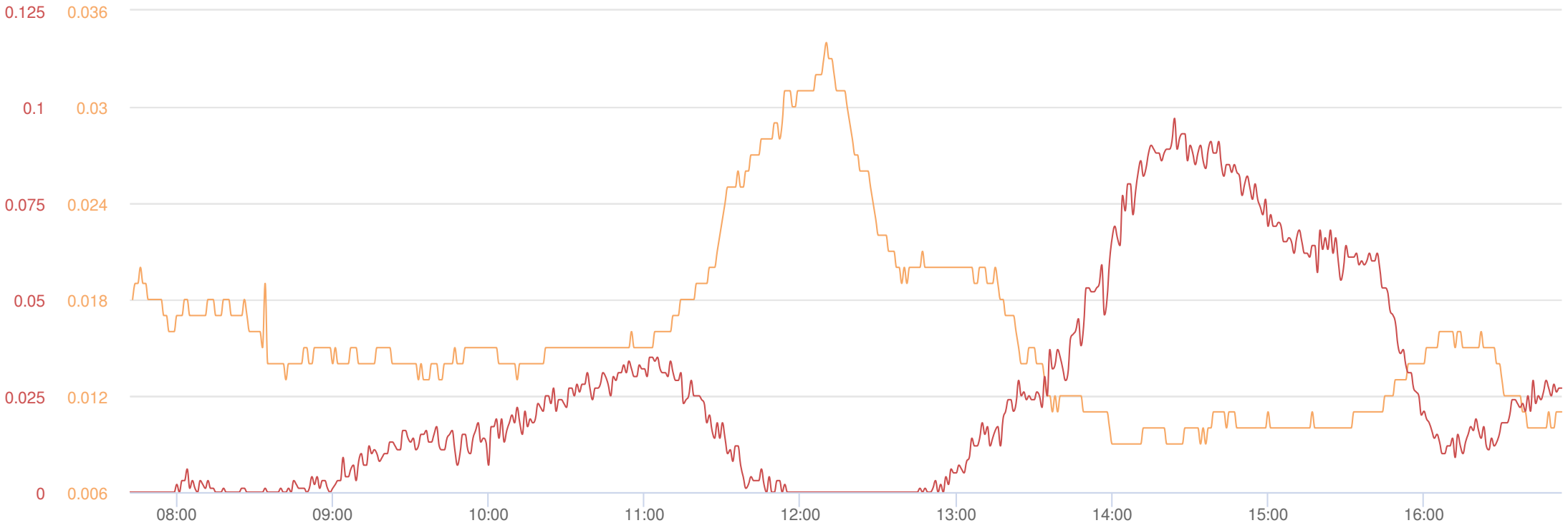
Thu, 23rd of Jul 2020, 0:00:00 – 16:54:05
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.009	0.016	0.034

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.026	0.097

NYSDEC DER-10 CAMP action levels:

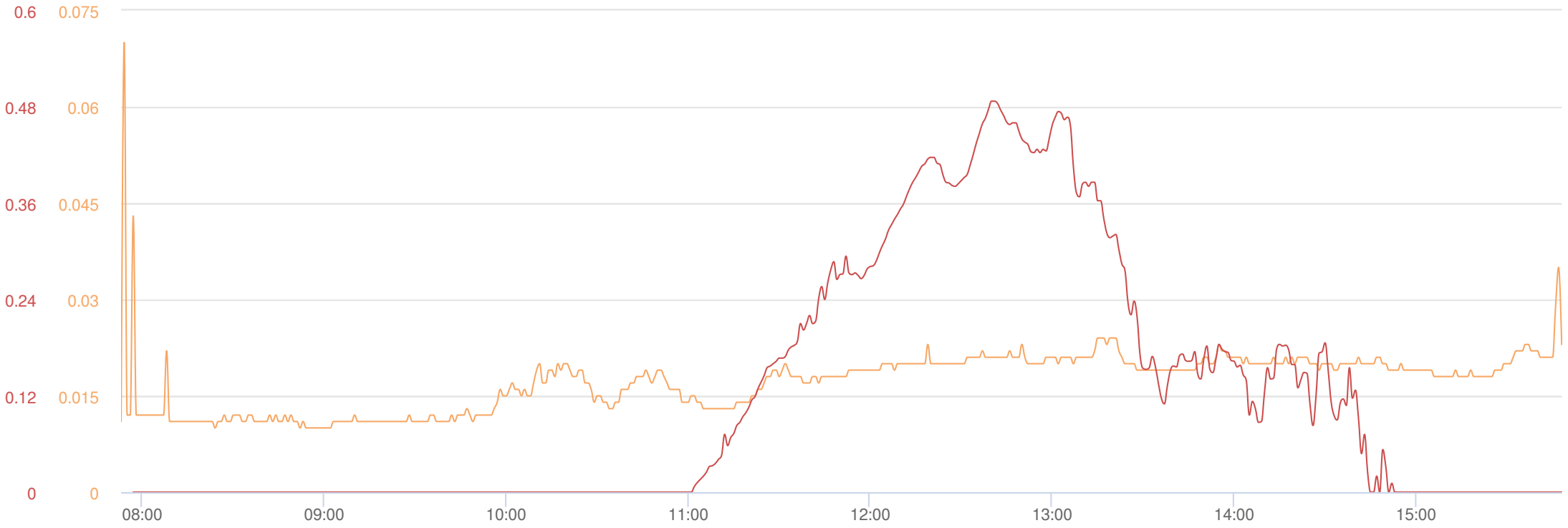
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

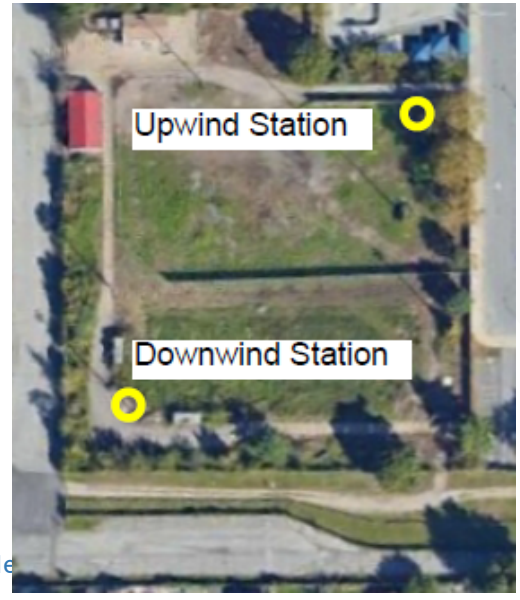
Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 39875 - Downwind
S/N 0B333738
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

© N

Fri, 24th of Jul 2020, 6:21:00 – 21:21:00
(GMT-05:00) Eastern Time (US & Canada)





© Ne

Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.01	0.017	0.07

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.118	0.487

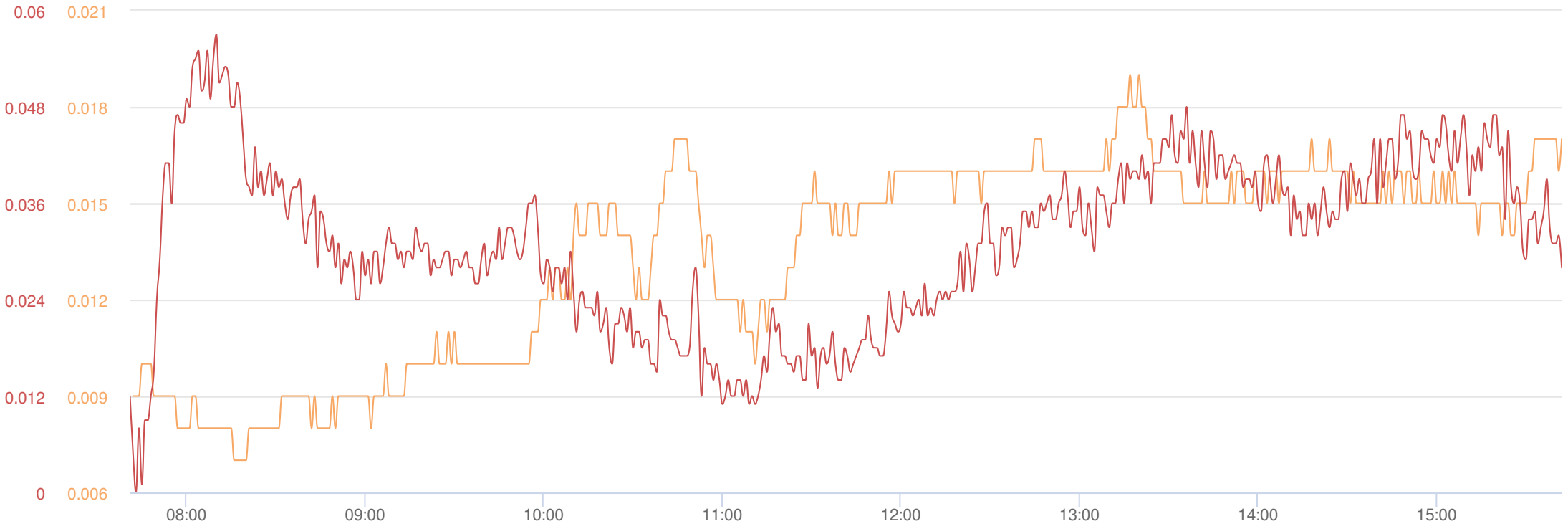
NYSDEC DER-10 CAMP action levels:

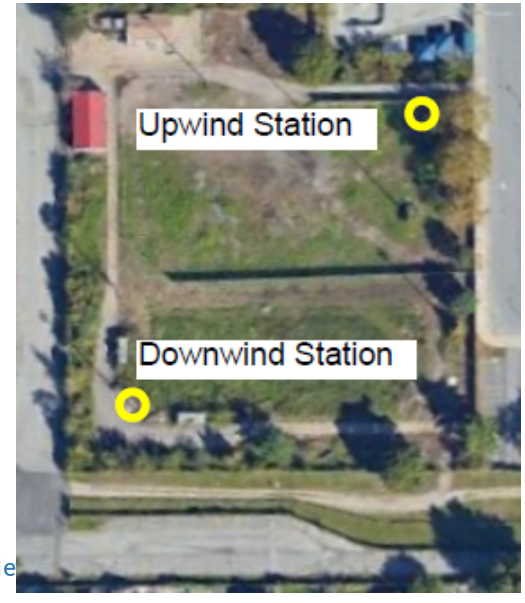
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 41147 - Upwind
S/N 0B357066
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

Fri, 24th of Jul 2020, 6:21:00 – 21:21:00
(GMT-05:00) Eastern Time (US & Canada)





Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.007	0.013	0.019

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.031	0.057

NYSDEC DER-10 CAMP action levels:

- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 39875 - Downwind
S/N 0B333738
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

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Table 1 - ISTR Phase 2 Cumulative Progress 2020 07 25

Date: *25-Jul-20*	*Design Total*		*Cumulative Total*		*Est. Percent Complete*	*Comments/Notes*
Vertical & Horizontal Pipe Installation						
Heater Welded	188	ea	188	ea	100%	
Heaters installed	178	ea	178	ea	100%	
Temperature Monitoring Point (TMP)	18	ea	18	ea	100%	
Temperature/Pressure Monitoring Point (TPMP)	6	ea	6	ea	100%	
Vapor Extraction (Trenching)	400	ft	400	ft	100%	Trench to key-in HDPE liner on south and west sides
Vapor Extraction Well (VEW)	39	ea	39	ea	100%	
Horizontal Extraction Wells (HEW)	20	ea	20	ea	100%	
Multi-Phase Extraction Well (MPE)	3	ea	3	ea	100%	
Surface Cover Construction						
5/8-in stone	32178	ft^2	32178	ft^2	100%	
Geotextile	32178	ft^2	32178	ft^2	100%	
DGA Layer	32178	ft^2	32178	ft^2	100%	
HDPE Liner	32178	ft^2	32178	ft^2	100%	
Manifold Installation						
Vapor Manifold	1315	ft	1315	ft	100%	3-, 6-, and 12-inch fiber reinforced plastic vapor
Expansion Joints	2	ea	2	ea	100%	
Liquid Manifold	1200	ft	1200	ft	100%	2-inch carbon steel water lines
Air Manifold	900	ft	900	ft	100%	1-inch carbon steel compressed air
Wellhead and Equipment Installation						
Vapor Extraction Wellheads (including HVEW)	59	ea	0	ea	0%	
Pressure Monitoring Point Wellheads	6	ea	0	ea	0%	
Temperature Monitoring Point Wellheads	18	ea	0	ea	0%	
Multi-phase Extraction Wellheads	3	ea	0	ea	0%	
Electrical Installation						
Liners	178	ea	178	ea	100%	
Heater Wellheads	178	ea	178	ea	100%	
Power Jumper Cables	170	ea	170	ea	100%	
Ground Jumper Cables	170	ea	170	ea	100%	
Homerun Power Cables	4500	ft	4500	ft	100%	
McKay Field Treatment Plant Installation						
McKay Field Grading and preparation	-	-	-	-	100%	
Process equipment at McKay Field	-	-	-	-	75%	Tier 1s, chiller, generator, electrical gear in place
Liquid effluent line connection to OU3	1	ea	0	ea	0%	
Vapor phase effluent stack	1	ea	0	ea	0%	
Fencing around McKay Rd. vault	1	ea	1	ea	100%	

Notes: Except for 3 additional TPMPs, the casing for the heater wells. TPMPs, TMPs, VEW, MPE and SIW were installed in prior mobilizations.
Steam injection wells, while already drilled, are a contingency measure. Their components will only be installed if needed.