Pelton, Jason M (DEC)

From: Doug Smolensky <dsmolensky@emagin-inc.com>
Sent: Tuesday, August 04, 2020 9:51 AM
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; Jose Sananes; Todd McAlary; William Wertz; Darius Mali (DMali@Geosyntec.com); Susan Welt (SWelt@Geosyntec.com)
Subject: Park Soil ISTR Construction Weekly Progress Summary - Week 7/13/2020 - 7/18/2020
Attachments: CAMP Station Data week of 2020 07 13.pdf; ISTR Phase 2 photo log week of 2020 07 13.pdf; Table 1, ISTR Cumulative Progress 2020 07 18.pdf

Weekly Progress Summary for ISTR Construction
Northrop Grumman Systems, Corp.
Operable Unit 3, Bethpage, NY
Reporting Period: July 13 – July 18, 2020

Work completed:

- Installed all heating elements in heater wells using a crane for long-reach heater locations and a telescoping forklift for short-reach heater locations.
- Began electrical cable layout and connections to heater wells in the wellfield.
- Installed vapor well stickup extensions and valves.
- Positioned SCR cabinets in the wellfield.
- Began wiring and electrical connections at the wellfield electrical component area.
- PSE&G installed the electric meter for the transformer in the wellfield.
- Continued installing process piping and connections to the Tier 1 treatment trailer at McKay Field and within the wellfield.
- Positioned the three 20,000 gallon frac tanks at McKay Field. Each tank was placed on a graded gravel pad with a spill guard.

Cumulative progress:

See attached file – *Table 1, ISTR Phase 2 Cumulative Progress 2020 07 18.pdf*

Materials imported:

- Electric Cable spools, SCR cabinets, frac tanks, piping, spill guards.

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.

- Particulate and TVOC data plots for upwind and downwind CAMP stations submitted after each workday are attached for reference.
- Elevated particulate readings on 7/14 at the upwind station were due to maneuvering the frac tank. Readings subsided within minutes.
- Elevated particulate readings at the downwind station on 7/16 at 8:35, 9:40, and 10:15 were due to Geoprobe rig mobilization, water truck movement, and Geoprobe demobilization, respectively. Readings subsided within minutes.
- Elevated PID readings were recorded on 7/17 in the morning at the upwind station and in the afternoon at the downwind station. There were no intrusive activities conducted near these stations at the time of the elevated readings and even after several calibration attempts, the units continued to behave erratically. The PID units will be replaced on Monday, July 20, 2020.

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.
- Clean Harbors removed eleven soil drums on 7/15 under waste profiles CH2047945 and CH2047957. These waste profiles were generated using previous characterization data.
- Clean Harbors removed two boot-wash rinsate drums on 7/15 under waste profile CH2049430. These waste profiles were generated using previous characterization data.
- 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:

Planning for the ISTR treated liquid effluent discharge line to the existing air stripper began this week.

Schedule:

- Work planned for week of July 20 through July 25, 2020:
  - Install wellfield cable, heater jumpers, and grounding wire.
  - Continue mechanical/process equipment installation and connections.
  - Complete connections between electric utility meter and MSWB, and install support pole for the treated vapor effluent stack.
  - Install 1,000 gallon poly tank for the chiller system, install the vapor-phase GAC units and vapor-phase $KMNO_4$ units.

PHOTOGRAPH LOG – July 13, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Typical heater installation with crane

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 13, 2020

Photograph: 2

Description: Rigging and guiding heaters during installation

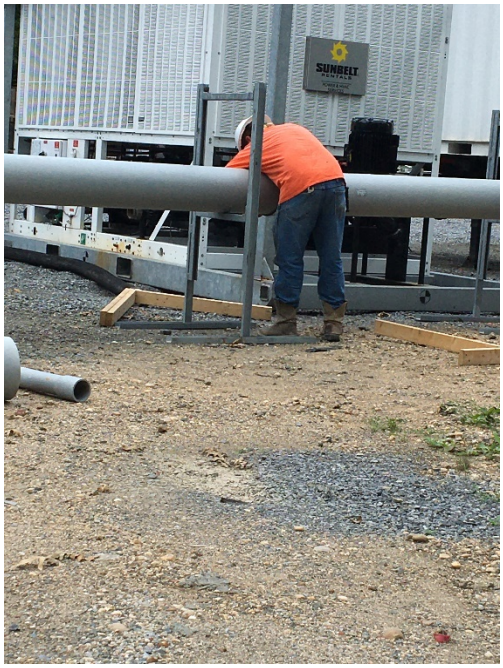
Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 13, 2020

PHOTOGRAPH LOG – July 13, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park



Photograph: 3

Description: Assembling 10" diameter vapor piping

Location: McKay Road

Photograph taken by:
EMAGIN

Date:
July 13, 2020

Photograph: 4

Description: Wiring cabinets in wellfield

Location:
Wellfield electrical component area

Photograph taken by:
EMAGIN

Date:
July 13, 2020

PHOTOGRAPH LOG – July 14, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Staging Frac Tanks on secondary containment over stone bed

Location:
McKay Field

Photograph taken by:
EMAGIN

Date:
July 14, 2020

Photograph: 2

Description: Heating element installation

Location:
McKay Road

Photograph taken by:
EMAGIN

Date:
July 14, 2020

PHOTOGRAPH LOG – July 14, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

Description: Wrapping wire to pull through conduit

Location:
Wellfield electrical component area

Photograph taken by:
EMAGIN

Date:
July 14, 2020

Photograph: 4

Description: Electrical distribution cabinet

Location:
Wellfield electrical component area

Photograph taken by:
EMAGIN

Date:
July 14, 2020

PHOTOGRAPH LOG – July 15, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Frac Tanks with process piping in foreground

Location:
McKay Field

Photograph taken by:
EMAGIN

Date:
July 15, 2020

Photograph: 2

Description: Installing process piping

Location:
McKay Field

Photograph taken by:
EMAGIN

Date:
July 15, 2020

PHOTOGRAPH LOG – July 15, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

Description: Process piping vault

Location:
McKay Field

Photograph taken by:
EMAGIN

Date:
July 15, 2020

Photograph: 4

Description: Electrical meter

Location:
Wellfield electrical component area

Photograph taken by:
EMAGIN

Date:
July 15, 2020

PHOTOGRAPH LOG – July 16, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Laying out electrical lines

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 16, 2020

Photograph: 2

Description: Making electrical connections to heater wells

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 16, 2020

PHOTOGRAPH LOG – July 16, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

Description: ADT drillers using a Geoprobe to remove grout obstruction in H-143

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 16, 2020

PHOTOGRAPH LOG – July 17, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Heater well electrical line runs

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 17, 2020

Photograph: 2

Description: Vapor well extensions with valves

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 17, 2020

PHOTOGRAPH LOG – July 17, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

Description: Offloading wire spools and SCR cabinets (zone heating cabinets)

Location:
McKay Road

Photograph taken by:
EMAGIN

Date:
July 17, 2020

Photograph: 4

Description: Preparing the SCR cabinets for placement in the wellfield

Location:
McKay Road

Photograph taken by:
EMAGIN

Date:
July 17, 2020

PHOTOGRAPH LOG – July 18, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Wellfield process piping

Location:
Wellfield

Photograph taken by:
EMAGIN

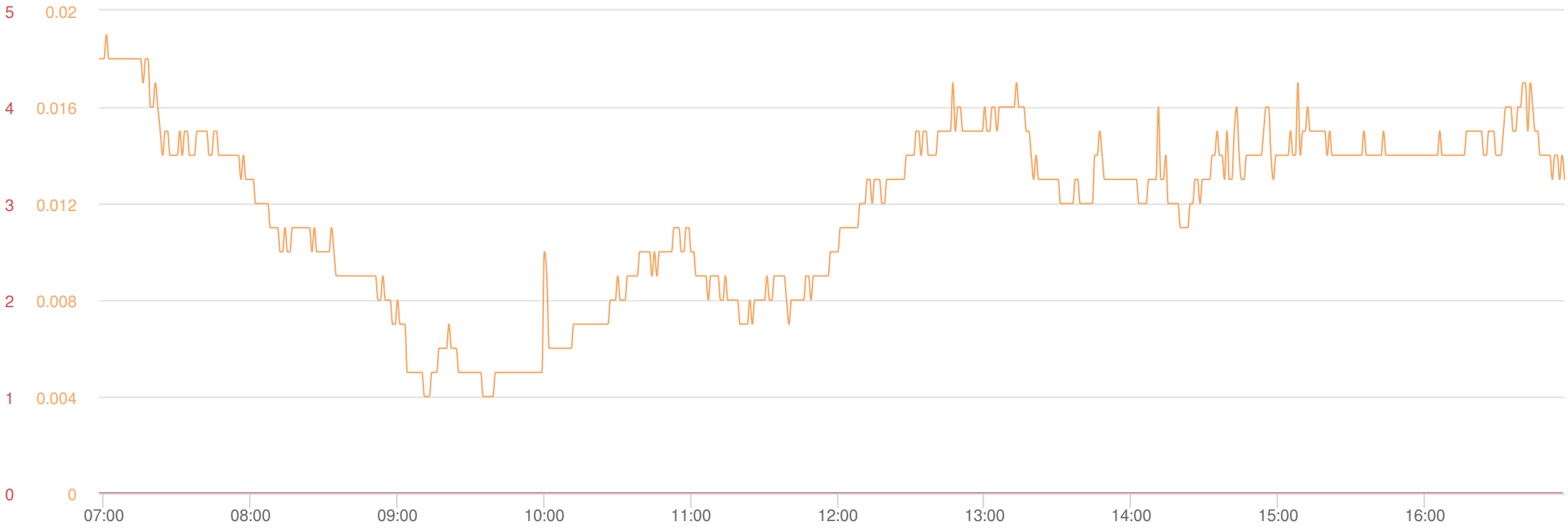
Date:
July 18, 2020

Table 1 - ISTR Phase 2 Cumulative Progress 2020 07 18

Date: *18-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	90%	Liner to be keyed-in on the north and east sides
Manifold Installation						
Vapor Manifold	1315	ft	1250	ft	90%	3-, 6-, and 12-inch fiber reinforced plastic vapor
Expansion Joints	2	ea	2	ea	100%	
Liquid Manifold	1200	ft	900	ft	70%	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	0	ea	0%	
Power Jumper Cables	170	ea	0	ea	0%	
Ground Jumper Cables	170	ea	0	ea	0%	
Homerun Power Cables	4500	ft	0	ft	0%	
McKay Field Treatment Plant Installation						
McKay Field Grading and preparation	-	-	-	-	100%	
Process equipment at McKay Field	-	-	-	-	60%	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 are considered contingency features whose components will only be installed as needed.

07/13/2020 0:00:14 – 07/14/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



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

MIN	AVG	MAX
0.004	0.012	0.019

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

07/13/2020 0:00:18 – 07/14/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)

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

MIN	AVG	MAX
0.009	0.015	0.049

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.004	1.699

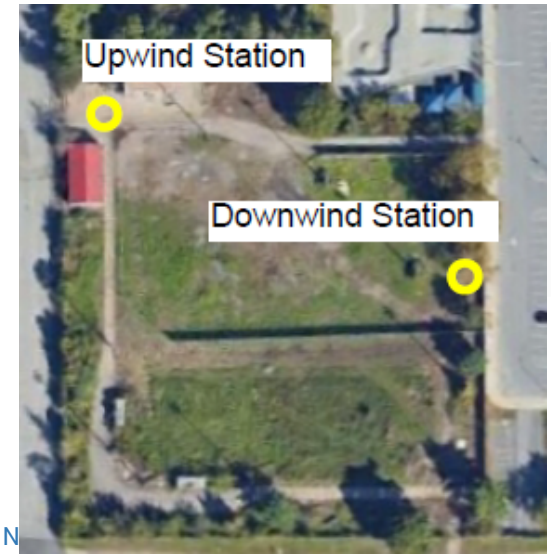
NYSDEC DER-10 CAMP action levels:

- 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

Tue, 14th of Jul 2020, 6:00:00 – 21:22:00
(GMT-05:00) Eastern Time (US & Canada)



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

MIN	AVG	MAX
0.003	0.009	0.181

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.001	0.328

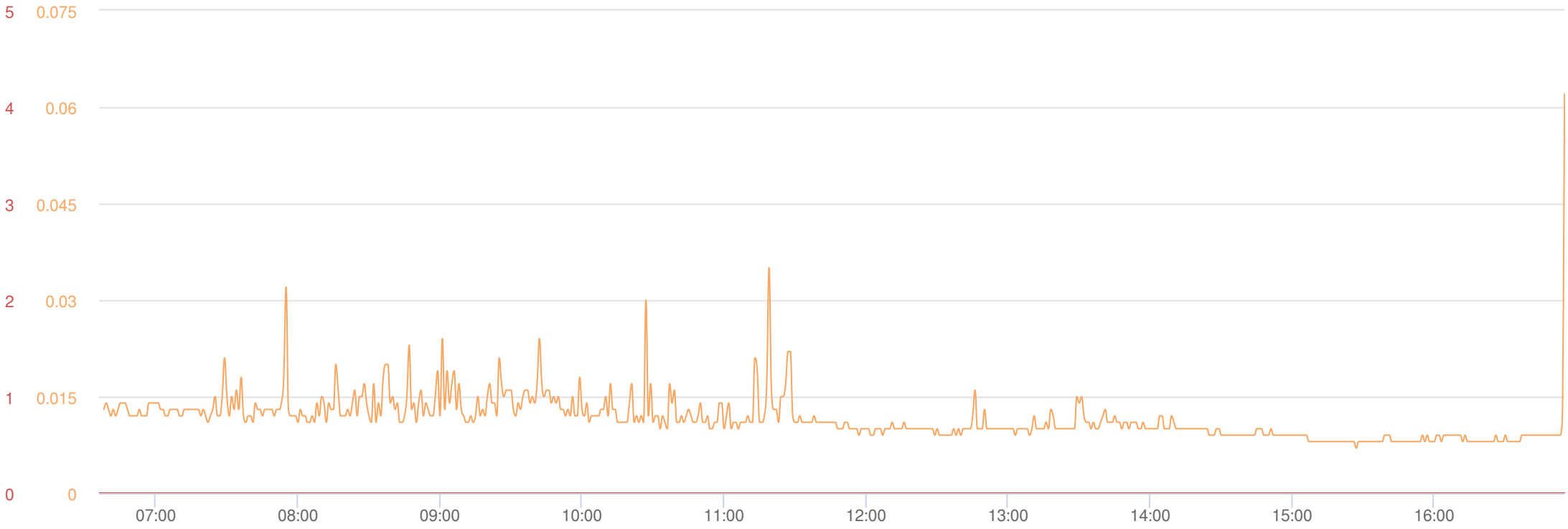
NYSDEC DER-10 CAMP action levels:

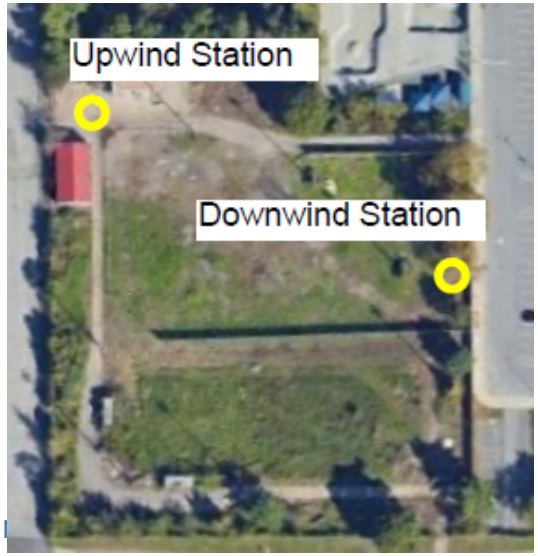
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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

Tue, 14th of Jul 2020, 6:00:00 – 21:20:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
0.007	0.011	0.035

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

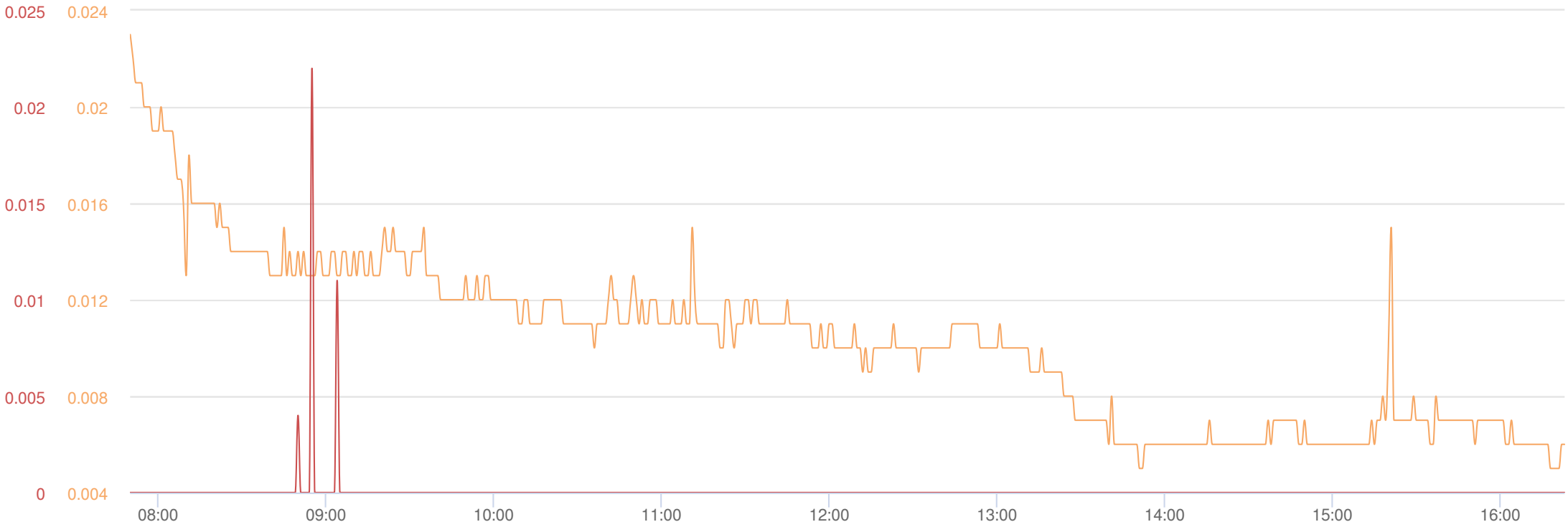
NYSDEC DER-10 CAMP action levels:

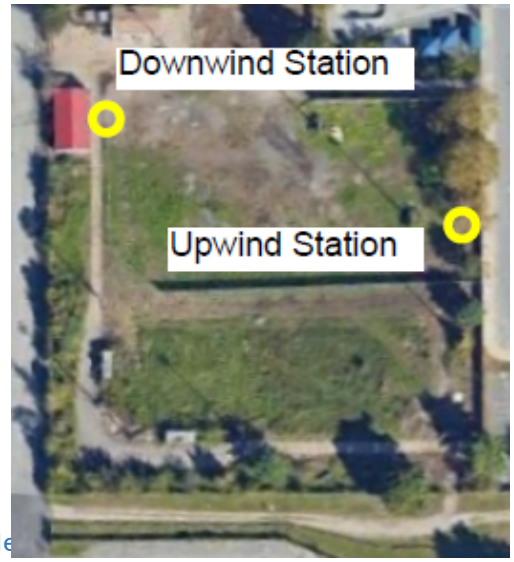
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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 Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

07/15/2020 0:00:48 – 07/16/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
0.005	0.01	0.023

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0.022

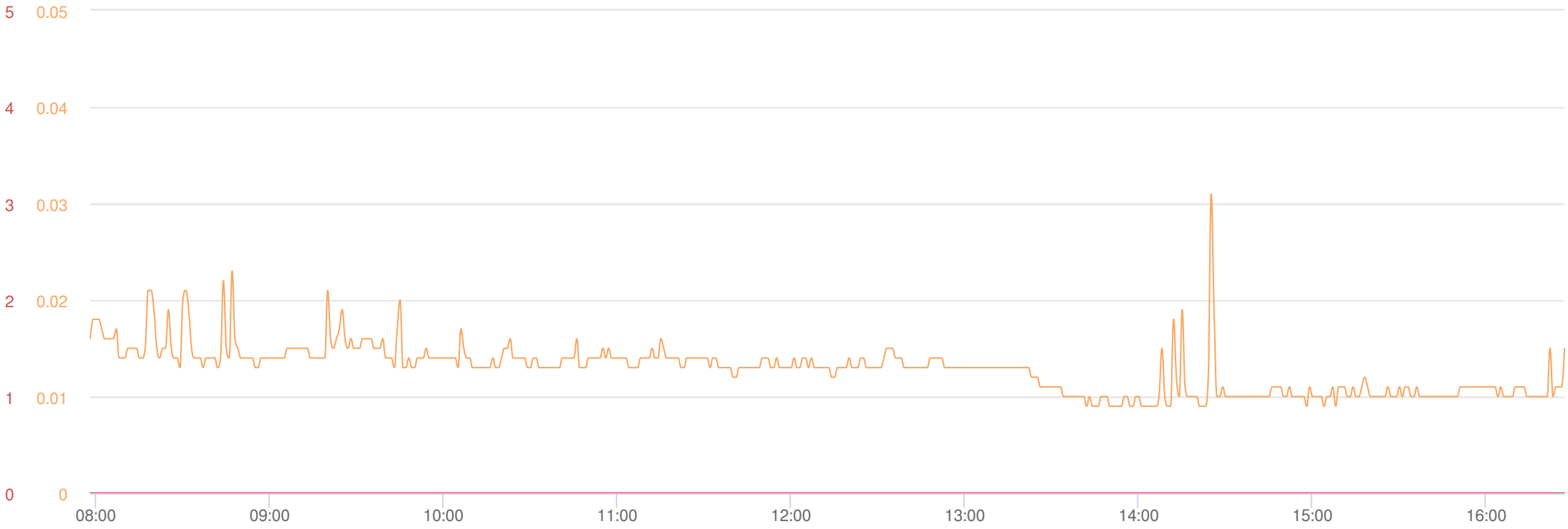
NYSDEC DER-10 CAMP action levels:

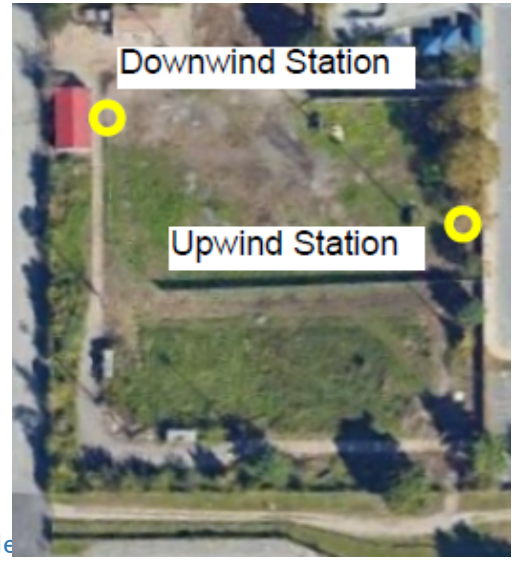
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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

07/15/2020 0:00:33 – 07/16/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
0.009	0.013	0.031

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

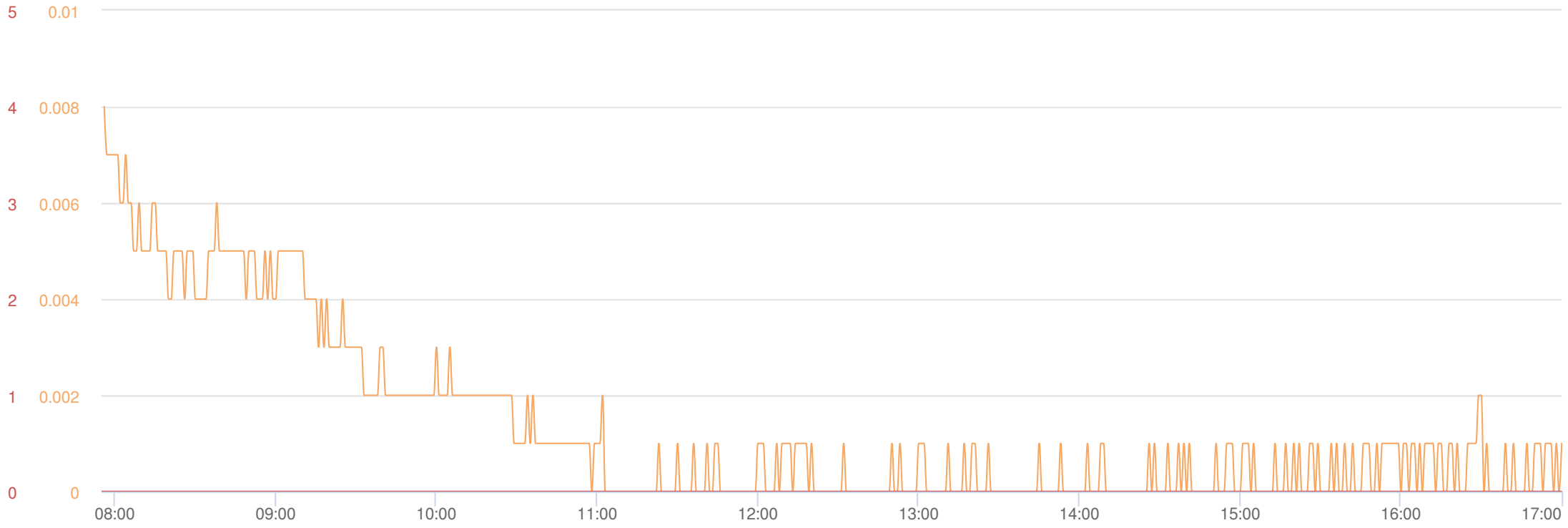
NYSDEC DER-10 CAMP action levels:

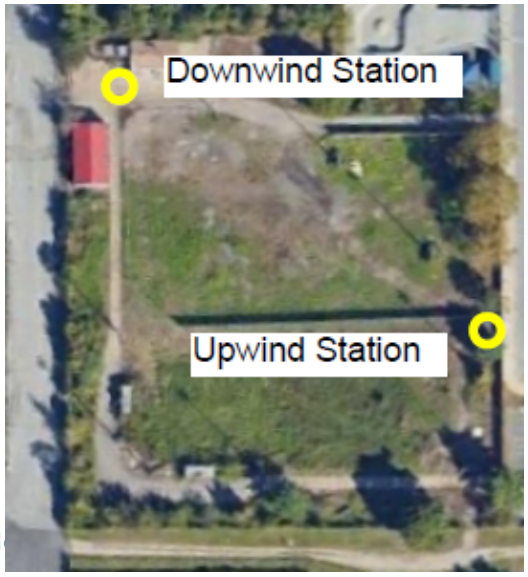
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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 Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

07/16/2020 0:00:08 – 07/17/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
0	0.001	0.008

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

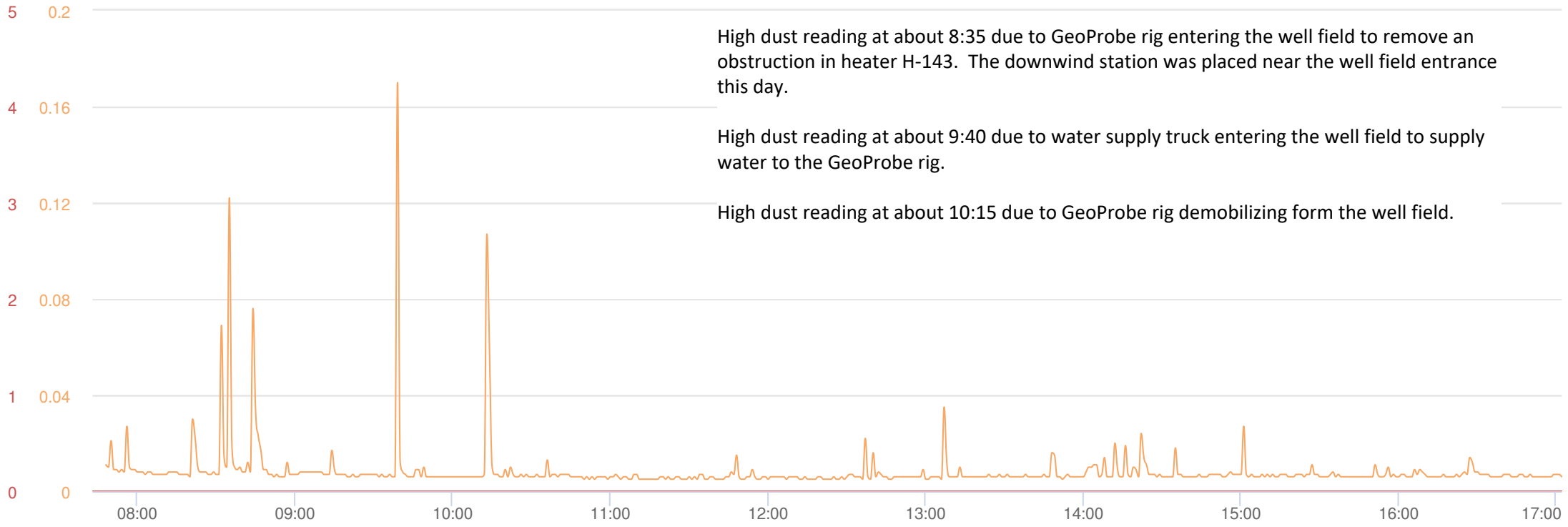
NYSDEC DER-10 CAMP action levels:

- 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 268 N 7th St, Bethpage, NY 11714, USA

07/16/2020 0:00:36 – 07/17/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



High dust reading at about 8:35 due to GeoProbe rig entering the well field to remove an obstruction in heater H-143. The downwind station was placed near the well field entrance this day.

High dust reading at about 9:40 due to water supply truck entering the well field to supply water to the GeoProbe rig.

High dust reading at about 10:15 due to GeoProbe rig demobilizing form the well field.

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

MIN	AVG	MAX
0.005	0.008	0.17

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

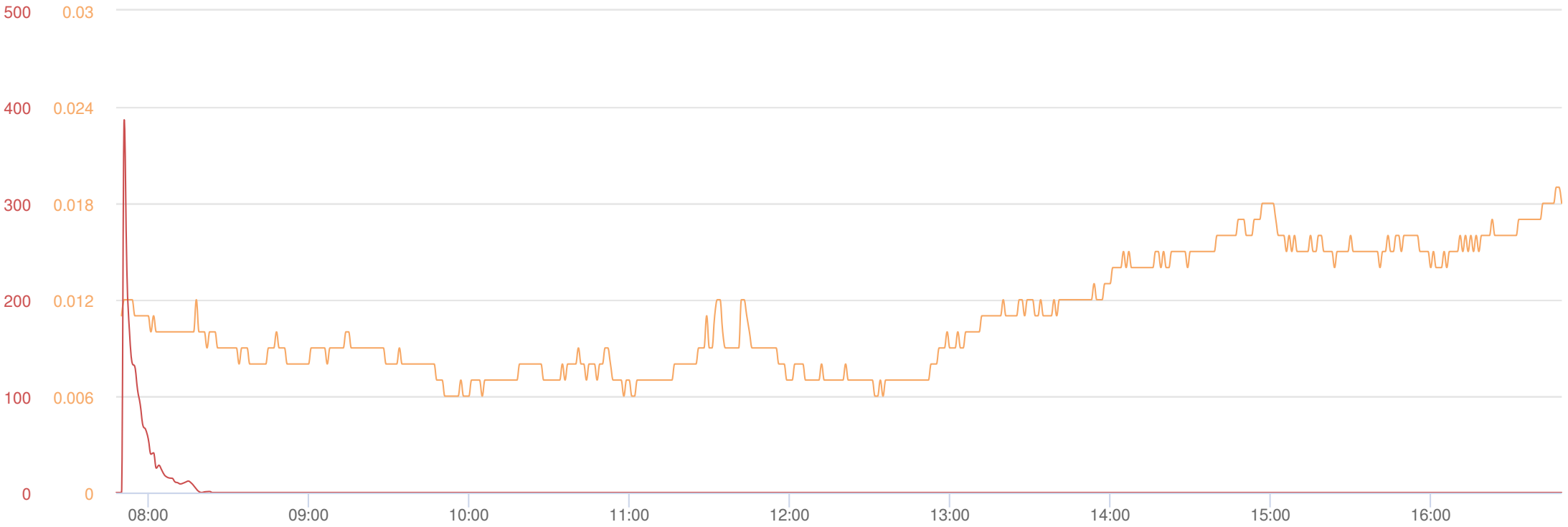
NYSDEC DER-10 CAMP action levels:

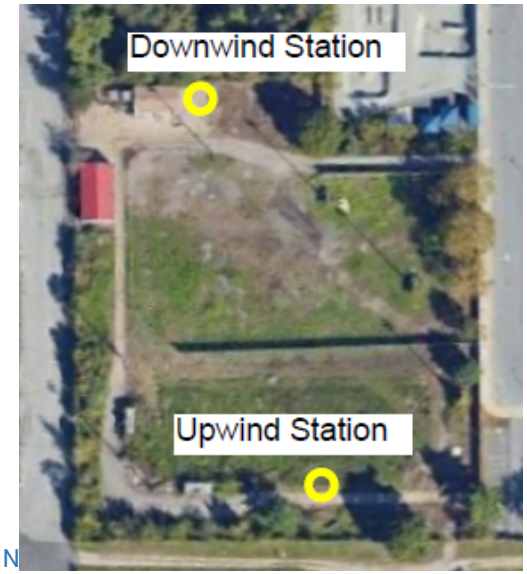
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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 Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

Fri, 17th of Jul 2020, 6:47:00 – 21:47:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
0.006	0.011	0.019

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	3.224	386.62

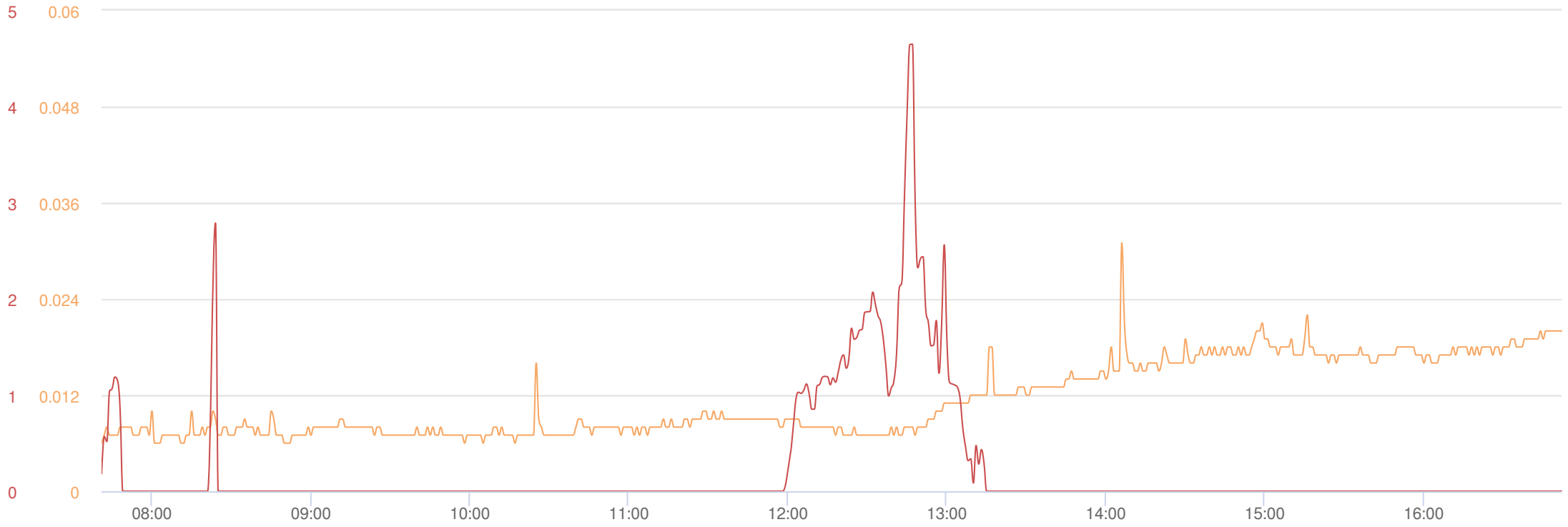
NYSDEC DER-10 CAMP action levels:

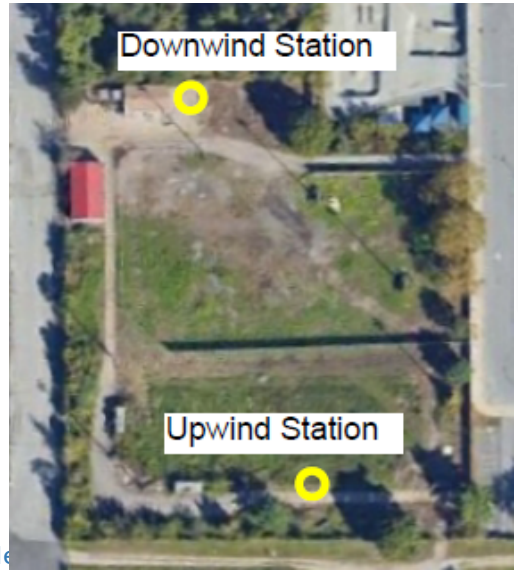
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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, 17th of Jul 2020, 6:39:00 – 21:39:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
0.006	0.011	0.031

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.216	4.649

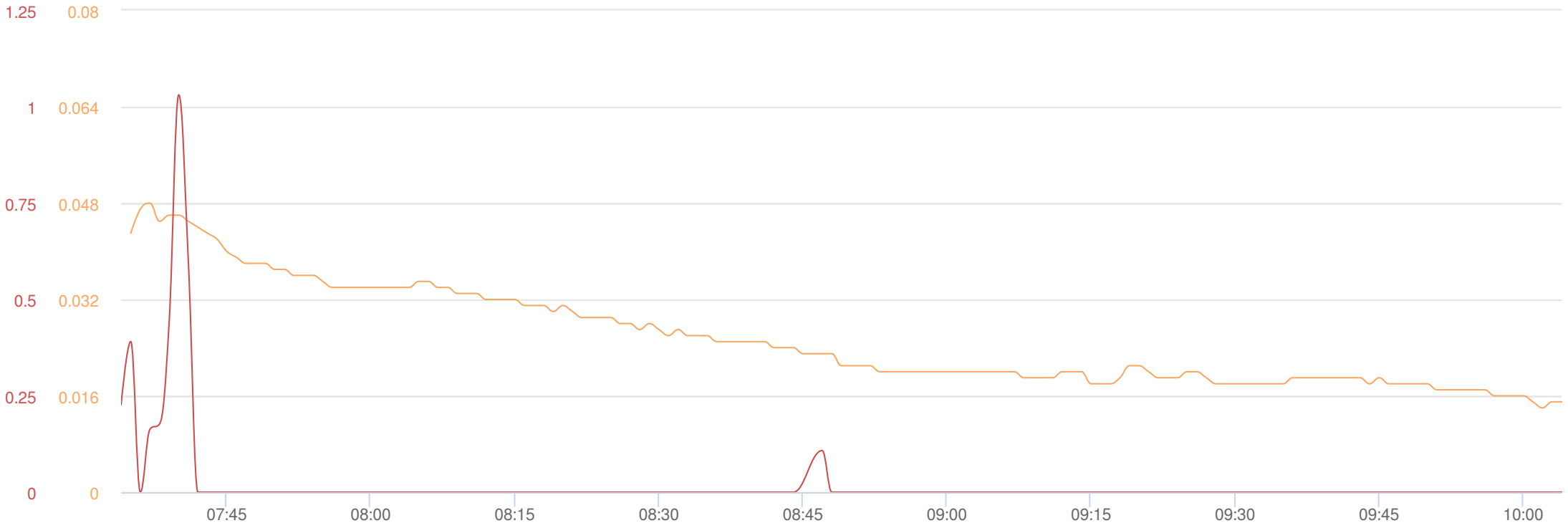
NYSDEC DER-10 CAMP action levels:

- 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

Sat, 18th of Jul 2020, 7:00:00 – 18:00:00
(GMT-05:00) Eastern Time (US & Canada)



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

MIN	AVG	MAX
0.014	0.026	0.048

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.021	1.031

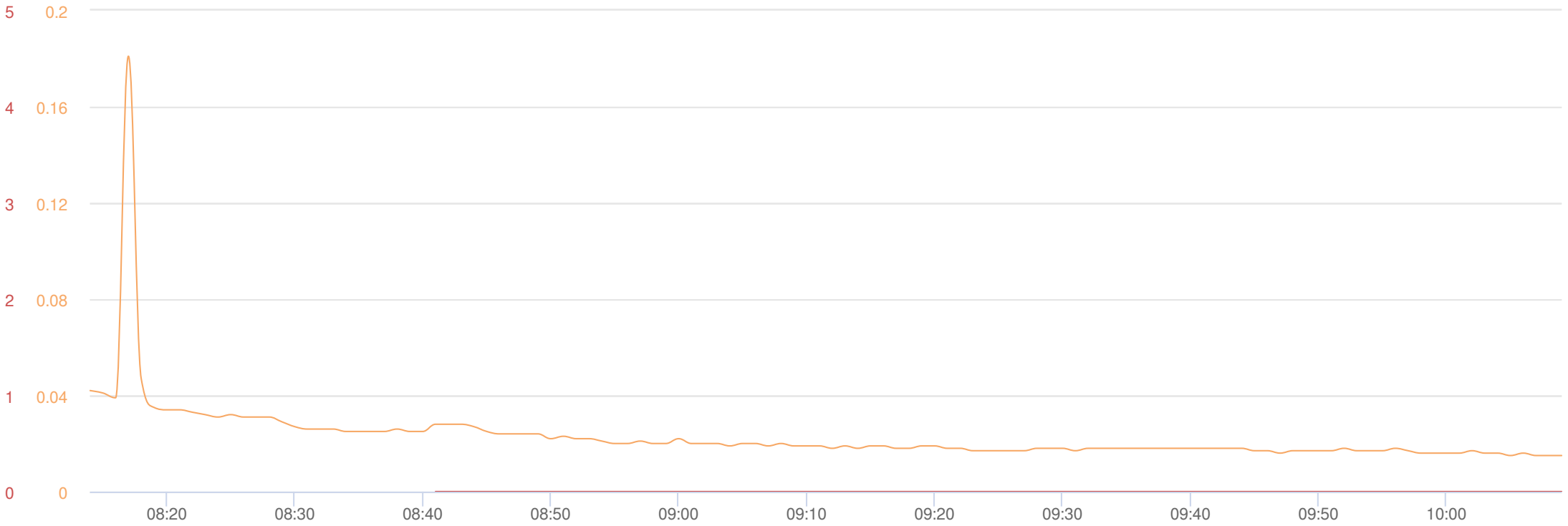
NYSDEC DER-10 CAMP action levels:

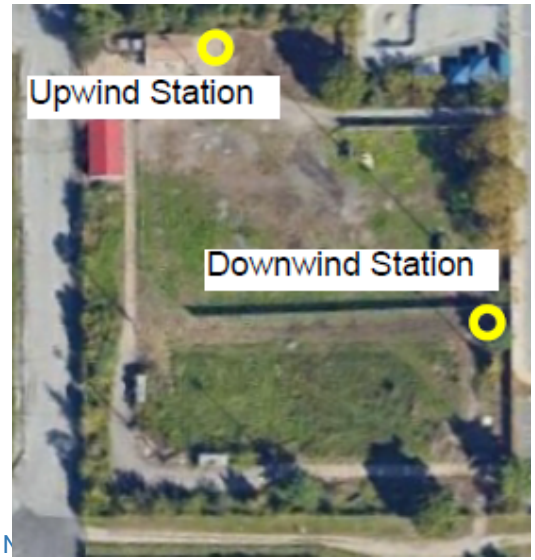
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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 268 8th St, Bethpage, NY 11714, USA

Sat, 18th of Jul 2020, 7:00:00 – 18:00:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
0.015	0.023	0.181

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