Date:	September 13, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 1, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Friday, September 1, 2017. Siteworks continued work along the southern site boundary and poured concrete to prepare for the construction of a retaining wall. Additionally, General Boring Inc. (GBI) was onsite to begin test borings within the restaurant footprint in the northern area of the site.

At the request of the NYSDEC, HES resumed the temporary soil vapor extraction system and treated the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

Despite no physical presence by either HDR or NYSDEC on the site, an HDR representative was in contact with HES regarding on site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, Siteworks continued work along the southern site boundary to prepare for the construction of a retaining wall while GBI began test borings within the restaurant footprint.

HES conducted the CAMP monitoring around the restaurant footprint, in the northern area of the site, where drilling was being done. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations was used to monitor the site activities conducted within the restaurant footprint; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. HES directed Siteworks to conduct periodic passes along the North-South access road with the water truck in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event according to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

	Downwind	Building	Downwind	Upwind*	Morgan Str.
CAMP Data	(Sta. 3)	(Sta. 1)	(Sta. 4)	(Sta. 6)	(Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.00	0.04	0.00	0.01
Overall Ave.	0.00	0.00	0.01	0.00	0.00
Dust (mg/m <sup>3</sup> )					
Min. 15-min. Ave.	-0.0004	0.0000	-0.0015	0.0007	0.0010
Max. 15-min. Ave.	0.0536	0.0240	0.0213	0.0171	0.0295
Overall Ave.	0.0098	0.0068	0.0035	0.0046	0.0054

Below is a summary table for the 09/01/2017 CAMP monitoring event.

Date: 9/01/17

\*Note: CAMP Station #6 was swapped out recently for maintenance and replaced with a new Station #6. Therefore, Station #6 graphs from the Environet site are no longer available prior to 9/11/2017 (the date in which the unit was swapped out). However, the data has been downloaded, preserved, and provided to HDR for review.



9/1/2017 Station #4 (Downwind)

9/1/2017 Station #5 (Morgan Street)

\*\*As noted previously, the graph for Station #6 is not available for this monitoring event.

Date:	September 14, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 12, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Tuesday, September 12, 2017. Siteworks resumes work along the southern site boundary – backfilling soils around the southern retaining wall while simultaneously sifting site soils through the mechanical sieve.

No soil vapor venting was done on this day.

Despite no physical presence by either HDR or NYSDEC on the site, an HDR representative was in contact with HES regarding on site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, Siteworks backfilled along the southern retaining wall with site soils while continuing to sift existing site-soil stockpiles for reuse.

HES conducted the CAMP monitoring around the southern area of the site, where work was being done. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate

(Dust) and volatile organic compound (VOC) measurements. In addition, HES had an offsite CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations was used to monitor the site activities conducted around the southern portion of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. HES instructed Siteworks to conduct periodic passes with the water truck along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event according to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Dutc: 5/12/1/					
	Upwind	Downwind	Downwind	Buildings	Morgan Str.
CAMP Data	(Sta. 3)	(Sta. 1)	(Sta. 4)	(Sta. 2)	(Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.15	0.06	0.00	0.01
Overall Ave.	0.00	0.01	0.01	0.00	0.00
Dust (mg/m <sup>3</sup> )					
Min. 15-min. Ave.	0.0010	0.0112	-0.0038	0.0072	0.0082
Max. 15-min. Ave.	0.0207	0.1949	0.0150	0.0840	0.0150
Overall Ave.	0.0068	0.0268	0.0061	0.0189	0.0109

Below is a summary table for the 09/12/2017 CAMP monitoring event.

Date: 9/12/17

At approximately 1:40, there was a spike of particulates recorded by CAMP Station #1 which caused the 15-minute average reading to exceed the 0.1 mg/m<sup>3</sup> alert threshold. This spike was the result of the machinery used to tamp down backfilled soils being operated immediately next to the dust monitor. The burst of particulates was kicked up into the direction of the CAMP station. Aside from the a few individual spikes, typical readings from this work were well below the alert threshold (Table 1).

	CAMP Station #1 (Down	wind)
	1-Minute Readings	15-Minute Averages
Date and Time	(mg/m³)	(mg/m³)
9/12/2017 13:35	0.014	0.0143
9/12/2017 13:36	0.015	0.0144
9/12/2017 13:37	0.015	0.0145
9/12/2017 13:38	0.015	0.0145
9/12/2017 13:39	0.294	0.0332
9/12/2017 13:40	0.31	0.0529
9/12/2017 13:41	0.921	0.1134
9/12/2017 13:42	0.264	0.1301
9/12/2017 13:43	0.978	0.1941
9/12/2017 13:44	0.017	0.1943
9/12/2017 13:45	0.016	0.1944
9/12/2017 13:46	0.014	0.1944
9/12/2017 13:47	0.014	0.1944
9/12/2017 13:48	0.02	0.1948
9/12/2017 13:49	0.017	0.1949
9/12/2017 13:50	0.014	0.1949
9/12/2017 13:51	0.015	0.1949
9/12/2017 13:52	0.014	0.1949
9/12/2017 13:53	0.014	0.1948
9/12/2017 13:54	0.014	0.1761
9/12/2017 13:55	0.014	0.1564
9/12/2017 13:56	0.014	0.0959
9/12/2017 13:57	0.016	0.0794
9/12/2017 13:58	0.014	0.0151
9/12/2017 13:59	0.014	0.0149
9/12/2017 14:00	0.014	0.0148
9/12/2017 14:01	0.015	0.0149
9/12/2017 14:02	0.014	0.0149
9/12/2017 14:03	0.014	0.0145
9/12/2017 14:04	0.015	0.0143
9/12/2017 14:05	0.014	0.0143
9/12/2017 14:06	0.014	0.0143







9/12/2017 Station #3 (Upwind)

#### 9/12/2017 Station #2 (Near Buildings)

12:00

~

13:00

Minimum

0.0, ppm

HydroEnvironmental Solutions 🗸

0.075

0.05

0.025

-0.025

-0.05

Maximum

14:00

Average

0.0072, mg/m³ 0.01892, mg/m³ 0.084, mg/m³

line chart 
histogram

0.0, ppm 0.0, ppm



9/12/2017 Station #4 (Downwind)



9/12/2017 Station #5 (Morgan Street)

Date:	September 14, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 13, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Wednesday, September 13, 2017. Siteworks relocated the Frac tank to the northern area of the site and began trenching in the southern area where the Frac tank had resided. Simultaneously, Siteworks continued to sift site soils through the mechanical sieve.

No soil vapor venting was done on this day.

Despite no physical presence by either HDR or NYSDEC on the site, an HDR representative was in contact with HES regarding on site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, Siteworks trenched within the southern portion of the site in order to install stormwater retention basin (SWRB) piping while continuing to sift existing site-soil stockpiles for reuse.

HES conducted the CAMP monitoring around the southern area of the site, where work was being done. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or

property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an offsite CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations was used to monitor the site activities conducted around the southern portion of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. HES instructed Siteworks to conduct periodic passes with the water truck along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event according to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

	Upwind	Downwind	Downwind	Buildings	Morgan Str.
CAMP Data	(Sta. 3)	(Sta. 1)	(Sta. 4)	(Sta. 2)	(Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.00	0.07	0.04	0.03
Overall Ave.	0.00	0.00	0.02	0.01	0.00
Dust (mg/m <sup>3</sup> )					
Min. 15-min. Ave.	0.0005	0.0000	-0.0050	0.0000	0.0000
Max. 15-min. Ave.	0.1314	0.1416	0.1070	0.0521	0.0285
Overall Ave.	0.0144	0.0259	0.0300	0.0172	0.0148

Below is a summary table for the 09/13/2017 CAMP monitoring event.

Date: 9/13/17

At approximately 10:00, an alert was triggered by the DustTrak in CAMP Station #3; the water truck was making its first pass along the North-South access road and kicked up a wave of dust ahead of the water sprinkler. No dust was observed leaving the site.

Similarly, a second alert was triggered from CAMP Station #1 at 14:20 as the water truck was making its final pass of the day. Again, no dust was observed leaving the site.

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ashboard Monitor Alerts Map Files Notes Forum	Tutorials	Dashboard Monitor Alerts Map Files Notes	s Forum Tutorials
<b>FB00486820</b> [Station #1 (FA00527)]		TC00184550 [Station #2 (FA00984)]	
rom 2017-09-13 7:43 AM 🗮 To 2017-09-13 6:44 PM × 🔤 simple		From 2017-09-13 5:46 AM III To 2017-09-13 6:46 PM III si Show	mple
Graph Table TB00486820 September 13, 2017 07:43 to September 13, 2017 18:4	4 (GMT-4)	Graph Table TC00184550 September 13, 2017 05:46 to September 1	3, 2017 18:46 (GMT-4) 0.06
0.25 0.2 0.15 0.1	0.0005 0.0004 0.0003 0.0002		0.05
	0 0.0001		0
— Mass Conc. Total (Avg15) (mg/m³) — VOC (Avg15	5) (ppm)	Mass Conc. Total (Avg15) (mg/m <sup>3</sup> ) -	- VOC (Avg15) (ppm)
Parameters Minimum DUST # > Mass Conc. Total (Avg15), mg/m <sup>3</sup> 0.0 0.0, mg/m <sup>3</sup> 0.0	Average Maximum 2589, mg/m³ 0.1416, mg/m³	Parameters         Mi           Dust # > Mass Conc. Total (Avg15), mg/m³         0.0,	nimum Average Maximum , mg/m³ 0.01717, mg/m³ 0.0521, mg/m
VOC #1 > VOC (Avg15), ppm 0.0, ppm 2	2.0e-05, ppm 0.0005, ppm	VOC #2 > VOC (Avg15), ppm 0.	.0, ppm 0.0101, ppm 0.0359, pp



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Dashboard	Monitor	Alerts	Мар	Files	Notes	Forur	n Tutorials	
TG0A24	1 <b>967</b> [S	tation #3	FA0239	2]				
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0.075								0.05
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0.025	~			_				• •
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-0.025		10:00 Mass Conc	Total (A	12:00 Avg15) (m	g/m³) — V	14:0 OC (Avg	0 1 g15) (ppm)	6:00 -0.05
							line chart	● histogram ○
Parameters					Mini	mum	Average	Maximum
DUST # >	Mass Conc. T	Fotal (Avg15)	, mg/m³	~	0.0005, n	ng/m³	0.01437, mg/m <sup>3</sup>	0.1314, mg/m <sup>3</sup>
VOC #3 > V0	OC (Avg15), p	opm		~	0.0	ppm	0.0, ppm	0.0, ppm

9/13/2017 Station #3 (Upwind)

#### 9/13/2017 Station #2 (Near Buildings)

enviro**net** 



9/13/2017 Station #4 (Downwind)



9/13/2017 Station #5 (Morgan Street)

Date:	September 14, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 14, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Thursday, September 14, 2017. Siteworks began backfilling the trench from the previous day within the southern area where the Frac tank had resided.

No soil vapor venting was done on this day.

Despite no physical presence by either HDR or NYSDEC on the site, an HDR representative was in contact with HES regarding on site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, Siteworks worked to backfill the existing stormwater retention basin (SWRB) trench with site soils.

HES conducted the CAMP monitoring around the southern and central areas of the site, where work was being done / soil was being hauled. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate

(Dust) and volatile organic compound (VOC) measurements. In addition, HES had an offsite CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations was used to monitor the site activities conducted around the southern portion of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. HES instructed Siteworks to conduct periodic passes with the water truck along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event According to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Dutc. 5/14/1/					
	Upwind	Downwind	Downwind	Buildings	Morgan Str.
CAMP Data	(Sta. 3)	(Sta. 1)	(Sta. 4)	(Sta. 2)	(Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.00	0.00	0.60	0.04
Overall Ave.	0.00	0.00	0.00	0.01	0.00
Dust (mg/m <sup>3</sup> )					
Min. 15-min. Ave.	0.0000	0.0000	0.0000	0.0000	0.0000
Max. 15-min. Ave.	0.0417	0.0818	0.0679	0.0583	0.0690
Overall Ave.	0.0349	0.0403	0.0353	0.0358	0.0400

Below is a summary table for the 09/14/2017 CAMP monitoring event.

Date: 9/14/17







9/14/2017 Station #3 (Upwind)

9/14/2017 Station #4 (Downwind)

#### 9/14/2017 Station #2 (Near Buildings)

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Dashboard	Monitor	Alerts	Мар	Files	Note	s Forur	n Tutor	ials	
F0A158	8317 rc+-	ation #5	(EA024)	1511					
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	-	Mass Cond	Total (/	Avg15) (m	ig/m³) –	- VOC (Avg	g15) (ppm)		
2							line o	:hart 🖲	histogram O
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VOC #5 > V/	mass conc. Τα	om	, mg/m²			0.0 . nom	0.04, mg	nom	0.0448 ppm
					للثب	Tool bhun	5.002.02, 1		2.0110, ppm

9/14/2017 Station #5 (Morgan Street)

Date:	September 20, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 19, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Tuesday, September 19, 2017. Siteworks removed the existing fence line along the Broken Bow Brewery to the North-east of the site and backfilled the area with site soils.

No soil vapor venting was done on this day.

Despite no physical presence by either HDR or NYSDEC on the site, an HDR representative was in contact with HES regarding on site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, Siteworks removed the existing fence line along the Broken Bow Brewery and backfilled with site soils.

HES conducted the CAMP monitoring around the northern area of the site, where work was being done / soil was being hauled. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-

site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations was used to monitor the site activities conducted around the northern portion of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. HES instructed Siteworks to conduct periodic passes with the water truck along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event according to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Date: 9/19/17					
	Upwind	Downwind	Downwind	Buildings	Morgan Str.
CAMP Data	(Sta. 3)	(Sta. 1)	(Sta. 4)	(Sta. 2)	(Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Overall Ave.	0.00	0.00	0.00	0.00	0.00
Dust (mg/m <sup>3</sup> )					
Min. 15-min. Ave.	0.0107	0.0165	0.0007	0.0145	0.0116
Max. 15-min. Ave.	0.0300	0.0373	0.0461	0.0418	0.0340
Overall Ave.	0.0187	0.0226	0.0133	0.0242	0.0210

Below is a summary table for the 09/19/2017 CAMP monitoring event.







9/19/2017 Station #3 (Upwind)

#### 9/19/2017 Station #2 (Near Buildings)



#### 9/19/2017 Station #4 (Downwind)



9/19/2017 Station #5 (Morgan Street)

Date:	September 27, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 26, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Tuesday, September 26, 2017. Siteworks continued sifting and backfilling with site soils within the central / southern portion of the site. Additionally, Pyramid was onsite to pour concrete within the hotel footprint.

No soil vapor venting was done on this day.

Despite no physical presence by either HDR or NYSDEC on the site, an HDR representative was in contact with HES regarding on site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, Siteworks sifted and backfilled with site soils while Pyramid poured concrete for the hotel foundation.

HES conducted the CAMP monitoring around the central / southern area of the site, where work was being done / soil was being hauled. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or

property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an offsite CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations and 1 additional downwind station were used to monitor the site activities conducted around the central and southern portions of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. HES instructed Siteworks to conduct periodic passes with the water truck along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event according to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Date: 9/26/17					
	Upwind	Downwind	Downwind	Buildings	Morgan Str.
CAMP Data	(Sta. 3)	(Sta. 1)	(Sta. 4)	(Sta. 2)	(Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.00	0.07	0.00	0.01
Overall Ave.	0.00	0.00	0.01	0.00	0.00
Dust (mg/m <sup>3</sup> )					
Min. 15-min. Ave.	0.0052	0.0076	-0.0013	0.0057	0.0048
Max. 15-min. Ave.	0.0453	0.0737	0.0423	0.0686	0.0533
Overall Ave.	0.0236	0.0312	0.0181	0.0306	0.0232

Below is a summary table for the 09/26/2017 CAMP monitoring event.

#### Date: 9/26/17

	Add'l downwind
CAMP Data	(Sta. 6)
VOCs (ppm)	
Min. 15-min. Ave.	0.00
Max. 15-min. Ave.	0.18
Overall Ave.	0.08
Dust (mg/m <sup>3</sup> )	
Min. 15-min. Ave.	0.0076
Max. 15-min. Ave.	0.0442
Overall Ave.	0.0244







9/26/2017 Station #3 (Upwind)

# 9/26/2017 Station #2 (Near Buildings)

HydroEnvironmental Solutions 🗸

≞± 0.05

0.025

15:00 -0.05

Maximum

line chart 
histogram

0.0, ppm 0.0, ppm

Average



9/26/2017 Station #4 (Downwind)



9/26/2017 Station #5 (Morgan Street)



9/26/2017 Station #6 (Add'l Downwind)

Date:	September 29, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 27, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Wednesday, September 27, 2017. Siteworks began crushing stockpiled cement/concrete and resumed backfilling the northern portion of the hotel footprint. Additionally, Pyramid was onsite to remove casing around concrete (micropile caps) within the hotel's northern footprint.

No soil vapor venting was done on this day.

Despite no physical presence by either HDR or NYSDEC on the site, an HDR representative was in contact with HES regarding on site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, Siteworks mechanically crushed concrete and sifted stones while Pyramid removed casings from the concrete micropile caps within the hotel foundation.

HES conducted the CAMP monitoring around the central / southern area of the site, where work was being done / soil was being hauled. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an offsite CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations was used to monitor the site activities conducted around the central / southern portion of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. HES instructed Siteworks to conduct periodic passes with the water truck along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event according to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

	Upwind	Downwind	Downwind	Buildings	Morgan Str.
CAMP Data	(Sta. 3)	(Sta. 1)	(Sta. 4)	(Sta. 2)	(Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.01	0.00	0.07	3.21
Overall Ave.	0.00	0.00	0.00	0.01	0.14
Dust (mg/m <sup>3</sup> )					
Min. 15-min. Ave.	-0.0001	0.0071	-0.0015	0.0069	0.0052
Max. 15-min. Ave.	0.1519	0.0287	0.0348	0.0628	0.0142
Overall Ave.	0.0203	0.0148	0.0085	0.0207	0.0088

Below is a summary table for the 09/27/2017 CAMP monitoring event.

Date: 9/27/17

The DustTrak for CAMP Station #3 exceeded the 0.1 mg/m<sup>3</sup> at approximately 10:15 and again around 12:00. Both instances were a result of Siteworks operating the water truck along the North-South access road and kicking up a dust cloud in the wake of the falling water. No dust was seen leaving the site by the HES on-site representative, and readings immediately returned to normal background levels.





9/27/2017 Station #1 (Downwind)

9/27/2017 Station #3 (Upwind)

9/27/2017 Station #2 (Near Buildings)

E. 0.08

-0.02

Maximum



9/27/2017 Station #4 (Downwind)



9/27/2017 Station #5 (Morgan Street)

Date:	September 29, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 28, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Thursday, September 28, 2017. Siteworks continued crushing stockpiled cement/concrete and resumed sifting/backfilling the northern portion of the hotel footprint.

No soil vapor venting was done on this day.

Despite no physical presence by either HDR or NYSDEC on the site, an HDR representative was in contact with HES regarding on site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, Siteworks mechanically crushed previously-sifted concrete and stones while sifting and backfilling existing site soils.

HES conducted the CAMP monitoring around the central / southern area of the site, where work was being done / soil was being hauled. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate

(Dust) and volatile organic compound (VOC) measurements. In addition, HES had an offsite CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations was used to monitor the site activities conducted around the central / southern portion of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. HES instructed Siteworks to conduct periodic passes with the water truck along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event according to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Date: 5/26/17					
	Upwind	Downwind	Downwind	Buildings	Morgan Str.
CAMP Data	(Sta. 3)	(Sta. 1)	(Sta. 4)*	(Sta. 2)	(Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	<no data=""></no>	0.00	0.00
Max. 15-min. Ave.	0.00	0.02	<no data=""></no>	0.00	0.02
Overall Ave.	0.00	0.00	<no data=""></no>	0.00	0.00
Dust (mg/m <sup>3</sup> )					
Min. 15-min. Ave.	-0.0012	0.0052	0.0000	0.0007	0.0013
Max. 15-min. Ave.	0.0136	0.0985	0.0341	0.0207	0.0240
Overall Ave.	0.0500	0.0151	0.0078	0.0082	0.0041

Below is a summary table for the 09/28/2017 CAMP monitoring event.

Date: 9/28/17

\*CAMP Station #4 PID did not upload data properly to Environet. According to the HES daily CAMP sheet, hourly readings were taken and did not exceed 0.0ppm.

Dashboard Monitor Alerts Map Files Notes Forum Tutorials	Dashboard Monitor Alerts Map Files Notes Forum Tutorials
TB00486820       [Station #1 (FA00527)]         From       2017-09-28 5:30 PM         Show       Image: Show	TC00184550 [Station #2 (FA00984)] From 2017-09-28 7:00 AM III To 2017-09-28 6:30 PM III simple Show
TB00486820           September 28, 2017 07:00 to September 28, 2017 18:30 (CMT-4)           0.15           0.12           0.13           0.01           0.01           0.02           0.01           0.02           0.01           0.02           0           0           10:00           12:00           14:00           16:00	CO0184550           September 28, 2017 07:00 to September 28, 2017 18:30 (CMT-4)           0.005           0.001           0.005           0.005           0.001           0.005           0.005           0.001           0.005
	Image: Conc. Total (Avg15) (mg/m <sup>3</sup> ) — VOC (Avg15) (opm)         Image:



9/28/2017 Station #3 (Upwind)



9/28/2017 Station #4 (Downwind)



9/28/2017 Station #5 (Morgan Street)

Date:	October 4, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 29, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Friday, September 29, 2017. Siteworks excavated a 100sqft area along the western boundary to a depth of 4ft to conduct drainage work. Additionally, Siteworks continued crushing stockpiled cement/concrete and resumed sifting/backfilling the northern portion of the hotel footprint.

No soil vapor venting was done on this day.

An HDR representative made a brief spot-check of site activities in the early afternoon and was in contact with HES regarding on site activities throughout the day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, Siteworks conducted a shallow excavation along the western boundary in the central portion of the site as well as mechanically crushed previously-sifted concrete and stones while sifting and backfilling existing site soils.

HES conducted the CAMP monitoring around the central / southern area of the site, where work was being done / soil was being hauled. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations and 1 additional downwind station were used to monitor the site activities conducted around the central / southern portion of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. HES instructed Siteworks to conduct periodic passes with the water truck along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event according to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Date: 5/25/27					
	Upwind	Downwind	Downwind	Buildings	Morgan Str.
CAMP Data	(Sta. 3)	(Sta. 1)	(Sta. 4)*	(Sta. 2)	(Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	<no data=""></no>	0.00	0.00
Max. 15-min. Ave.	0.00	0.04	<no data=""></no>	0.01	0.08
Overall Ave.	0.00	0.00	<no data=""></no>	0.00	0.01
Dust (mg/m <sup>3</sup> )					
Min. 15-min. Ave.	-0.0022	0.0027	-0.0067	0.0000	0.0013
Max. 15-min. Ave.	0.0101	0.0607	0.1738	0.1115	0.0073
Overall Ave.	0.0032	0.0120	0.0247	0.0085	0.0036

Below is a summary table for the 09/29/2017 CAMP monitoring event.

Date 9/29/17

\*CAMP Station #4 PID did not upload data properly to Environet due to damaged wiring. According to the HES daily CAMP sheet, hourly readings were taken and did not exceed 0.0ppm.

Readings from CAMP Station #2 exceeded the alert threshold at startup of the DustTrak. The station was immediately recalibrated, and readings returned to normal background levels.

An alert was triggered by CAMP Station #4 at 1:19 as a result of Siteworks making a pass of the water truck. A cloud of dust is often kicked-up by the falling water ahead of the water truck and may cause an exceedance of the 0.1mg/m<sup>3</sup> recorded by the DustTrak; readings fell to acceptable levels immediately afterwards. No dust was seen leaving the site as reported by HES.

At approximately 2:30, dust from the rock crusher triggered a dust alert from CAMP Station #4. Siteworks was instructed to slow the rate of the conveyer belt as well as to add an extra water hose in order to better control the dust. Again, no dust was seen leaving the site as reported by HES and supported by CAMP Station #1 which had been positioned downwind of the crushing activities and along the site boundary.

CAMP Data	Add'l Downwind (Sta. 6)
VOCs (ppm)	
Min. 15-min. Ave.	0.00
Max. 15-min. Ave.	0.13
Overall Ave.	0.04
Dust (mg/m <sup>3</sup> )	
Min. 15-min. Ave.	0.0047
Max. 15-min. Ave.	0.0391
Overall Ave.	0.0107

Date: 9/29/17





9/29/2017 Station #1 (Downwind)

9/29/2017 Station #3 (Upwind)

#### 9/29/2017 Station #2 (Near Buildings)



9/29/2017 Station #4 (Downwind)



9/29/2017 Station #5 (Morgan Street)



9/29/2017 Station #6 (Add'l Downwind)

Date:	October 4, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 30, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Saturday, September 30, 2017. Siteworks continued crushing stockpiled cement/concrete and resumed sifting/backfilling the northern portion of the hotel footprint.

No soil vapor venting was done on this day.

Despite no physical presence by either HDR or NYSDEC on the site, an HDR representative was in contact with HES regarding on site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, Siteworks mechanically crushed previously-sifted concrete and stones while sifting and backfilling existing site soils.

HES conducted the CAMP monitoring around the central / southern area of the site, where work was being done / soil was being hauled. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate

(Dust) and volatile organic compound (VOC) measurements. In addition, HES had an offsite CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations was used to monitor the site activities conducted around the central / southern portion of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. HES instructed Siteworks to conduct periodic passes with the water truck along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event according to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Date: 5/56/17							
	Upwind	Downwind	Downwind	Buildings	Morgan Str.		
CAMP Data	(Sta. 3)	(Sta. 1)	(Sta. 4)*	(Sta. 2)	(Sta. 5)		
VOCs (ppm)							
Min. 15-min. Ave.	0.00	0.00	<no data=""></no>	0.00	0.00		
Max. 15-min. Ave.	0.00	0.00	<no data=""></no>	0.00	0.00		
Overall Ave.	0.00	0.00	<no data=""></no>	0.00	0.00		
Dust (mg/m <sup>3</sup> )							
Min. 15-min. Ave.	0.0001	0.0000	-0.0001	0.0000	0.0029		
Max. 15-min. Ave.	0.0851	0.0154	0.0845	0.0961	0.0123		
Overall Ave.	0.0252	0.0086	0.0123	0.0202	0.0061		

Below is a summary table for the 09/30/2017 CAMP monitoring event.

Date: 9/30/17

\*CAMP Station #4 PID did not upload data properly to Environet due to damaged wiring. According to the HES daily CAMP sheet, hourly readings were taken and did not exceed 0.0ppm.







9/30/2017 Station #3 (Upwind)

#### 9/30/2017 Station #2 (Near Buildings)

E±

0.00125 0.001

0.00075

0.0005

0.00025

16:00-0.00025

Maximum



#### 9/30/2017 Station #4 (Downwind)



9/30/2017 Station #5 (Morgan Street)

Date:	September 13, 2017
Project:	BCP Site # C360143
To:	Village of Tuckahoe
From:	Brendan Phillips, HDR
Subject:	Summary of CAMP Results During Site Work 109-125 Marbledale Road Tuckahoe, New York September 6, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Wednesday, September 6, 2017. General Boring Inc. (GBI) was onsite to resume test borings within the restaurant footprint in the northern area of the site.

At the request of the NYSDEC, HES resumed the temporary soil vapor extraction system and treated the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

Despite no physical presence by either HDR or NYSDEC on the site, an HDR representative was in contact with HES regarding on site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately positioned to account for the above-described work and locations of intrusive work on site as well as wind conditions.

### DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, GBI continued to drill test borings within the restaurant footprint.

HES conducted the CAMP monitoring around the restaurant footprint, in the northern area of the site, where drilling was being done. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. According to HES, all recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or

property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an offsite CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of 4 CAMP monitoring stations was used to monitor the site activities conducted within the restaurant footprint; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. According to HES, foam was not required for odors or vapors emanating from the work areas. Similarly, due to moderate to heavy rain, dust suppression was not necessary on this day. There was no visible dust leaving the site during this monitoring event according to HES.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

	Upwind	Downwind	Downwind	Buildings	Morgan Str.		
CAMP Data (Sta. 3)		(Sta. 1) (Sta. 4)		(Sta. 6)*	(Sta. 5)		
VOCs (ppm)							
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00		
Max. 15-min. Ave.	0.00	0.00	0.00	0.00	0.01		
Overall Ave.	0.00	0.00	0.00	0.00	0.00		
Dust (mg/m <sup>3</sup> ) <sup>t</sup>							
Min. 15-min. Ave.	<no data=""></no>						
Max. 15-min. Ave.	<no data=""></no>						
Overall Ave.	<no data=""></no>						

Below is a summary table for the 09/06/2017 CAMP monitoring event.

Date: 9/06/17

\*Note: CAMP Station #6 was swapped out recently for maintenance and replaced with a new Station #6. Therefore, Station #6 graphs from the Environet site are no longer available prior to 9/11/2017 (the date in which the unit was swapped out). However, the data has been downloaded, preserved, and provided to HDR for review.

<sup>t</sup> DustTraks were not used due to the moderate to heavy rain conditions which can damage the sensors.

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Dashboard Monitor Alerts Map Files Notes Forum Tutorials		Dashboard Monitor Alerts Map Files Notes Forum	u Tutorials
TR00486820 [Station #1 (EA00527)]		TC0X241967 (Station #3 EX02302)	
From [2017-09-06 7:43 AM ] To [2017-09-06 6:44 PM ] Simple Show		From 2017-09-06 5:46 AM	
Graph Table		Graph	
TB00486820 September 06, 2017 07:43 to September 06, 2017 18:44 (CMT-4)	0.05	TG0A241967 September 06, 2017 05:46 to September 06, 2017 18:	46 (GMT-4) 0.05
	- 0.025		0.025
	• 0		0
	-0.025		-0.025
09:00 10:00 11:00 Mass Conc. Total (Avg15) (mg/m <sup>1</sup> ) — VOC (Avg15) (ppm)	-0.05	08:30 09:30 10:00 10:30 11:00 10:30 11:00 (mg/m²) VOC (Avg	11:30 12:00 <sup>0.05</sup>
line chart	istogram O	Descenter Minim	line chart  histogram
Parameters         winimum         Average           DUST # > Mass Conc. Total (Avg15), mg/m³ <no data=""> <no data=""></no></no>	<no data=""></no>	DUST # > Mass Conc. Total (Avg15), mg/m <sup>3</sup> vno da	ta> <no data=""> <no data=""></no></no>
VOC #1 > VOC (Avg15), ppm 0.0, ppm 0.0, ppm	0.0, ppm	VOC #3 > VOC (Avg15), ppm 0.0, p	pm 0.0, ppm 0.0, ppm
9/6/2017 Station #1 (Downwind)		9/6/2017 Station #3 (Upwind)	
	al Solutions 🗸	enviroonet	HydroEnvironmental Solutions V

Dashboard	Monitor	Alerts	Мар	Files	Notes	Forum	Tutorials	
TB0089 From 2017-0 Show Graph Ta	3068 [St 9-06 4:47 AM	ation #4 ] 🗐 то [2	FA0054	4] 5 7:47 PN ×	simp	<u>le</u>		
_	Septe	mber 06, 2	2017 04:4	TB0089 47 to Sept	3068 ember 06,	2017 19:47 (	(GMT-4)	0.05
-								- 0.025
-								0
-								-0.025
100		09:00		10:00		11:00	1	2:00-0.05
	-	Mass Con	c. Total (/	Avg15) (m	g/m³) —	VOC (Avg15)	(ppm)	
							line chart 🖲	histogram 🔾
Parameters						Minimum	Average	Maximum
DUST # >	> Mass Conc. T	otal (Avg15	), mg/m³		$\checkmark$	<no data=""></no>	<no data=""></no>	<no data=""></no>
VOC #4 > V	/OC (Avg15), p	pm			~	0.0, ppm	0.0, ppm	0.0, ppm

9/6/2017 Station #4 (Downwind)

#### Dashboard Monitor Alerts Map Files Notes Forum Tutorials TF0A158317 [Station #5 (FA02405)] From 2017-09-06 6:48 AM 🔤 To 2017-09-06 6:48 PM 🗮 simple Show Graph Table TF0A158317 September 06, 2017 06:48 to September 06, 2017 18:48 (GMT-4) E. 0.008 0.005 0.004 0.002 0 -0.002 09:00 10:00 11:00 12:00 - Mass Conc. Total (Avg15) (mg/m³) - VOC (Avg15) (ppm) line chart histogram Parameters Minimum Average Maximum DUST #... > Mass Conc. Total (Avg15), mg/m3 <no data> <no data> <no data> VOC #5 > VOC (Avg15), ppm **v** 0.0, ppm 0.00044, ppm 0.0064, ppm

9/6/2017 Station #5 (Morgan Street)