



# TRANSMITTAL

**GZA GeoEnvironmental, Inc.**  
 188 Valley Street, Suite 300  
 Providence, Rhode Island 02909  
 401.421.4140 (fax) 401.751.8613

<b>Date:</b> 2/11/19	<b>Job No.</b> 03.0033554.04
<b>Attention:</b> Mr. Joseph Martella	
<b>Re:</b> Liquefaction Facility Project	
STRAP Perimeter Air Quality Monitoring (AQM)	
121 Terminal Road/ 642 Allens Avenue	
Providence, Rhode Island	
Site Remediation File No. SR-28-1152	

<b>To:</b> Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, Rhode Island 02908

**We are sending you:**

<input type="checkbox"/> Shop Drawings	<input checked="" type="checkbox"/> Attached	<input type="checkbox"/> Change Order	<input type="checkbox"/> Samples
<input type="checkbox"/> Copy of Letter	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input type="checkbox"/> Specifications
<input type="checkbox"/> Under Separate Cover, the following Items:		via:	

**How Shipped:**

<input checked="" type="checkbox"/> Via Email	<input type="checkbox"/> Courier	<input type="checkbox"/> Regular Mail	<input type="checkbox"/> Hand Delivered/Picked Up
---	----------------------------------	---------------------------------------	---

<b>Description</b>
Air Quality Monitoring (AQM) Results – Week of 2/4/19 (2/4/19, 2/5/19, 2/6/19, 2/7/19, and 2/8/19) AQM Station 1 Graph AQM Station 2 Graph AQM Station 3 Graph Roving Air Monitoring Unit Graph Summary Figure

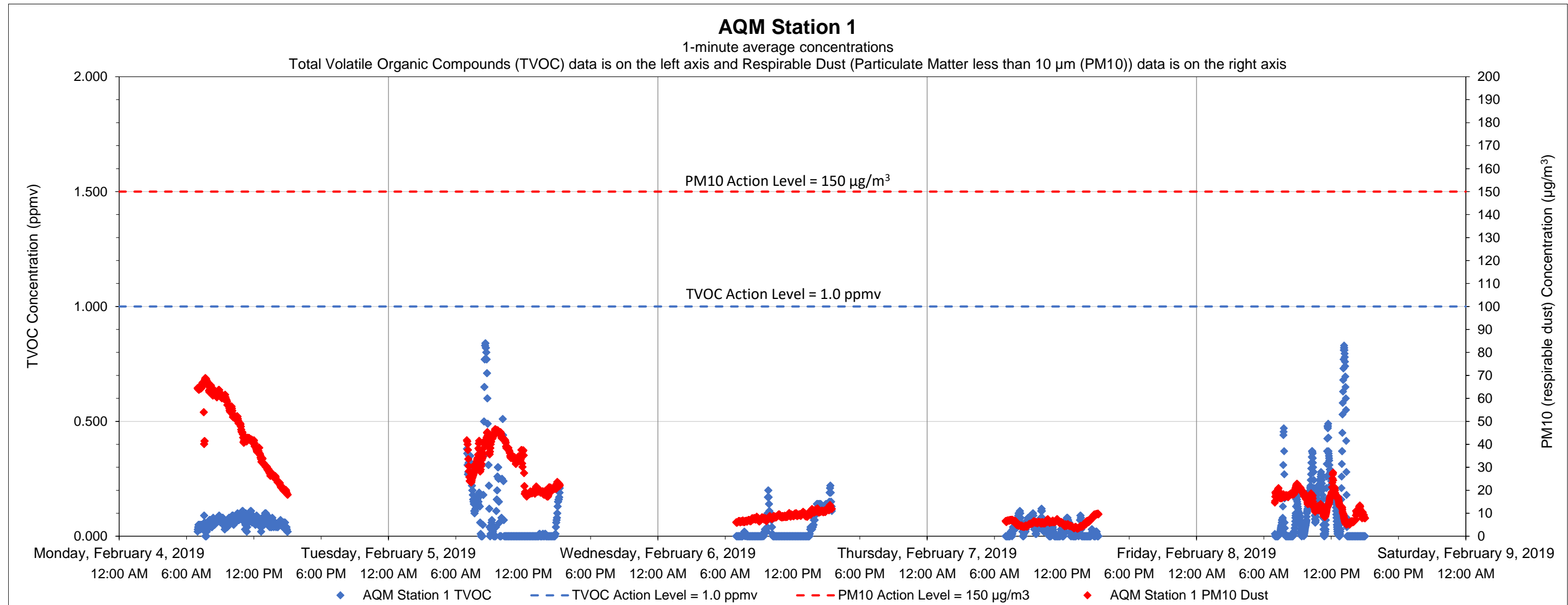
**THESE ARE TRANSMITTED as Checked Below:**

<input type="checkbox"/>	For Approval	<input type="checkbox"/>	Approved as Submitted	<input type="checkbox"/>	Resubmit Copies for Approval
<input checked="" type="checkbox"/>	For Your Use	<input type="checkbox"/>	Approved as Noted	<input type="checkbox"/>	Submit Copies for Distribution
<input type="checkbox"/>	As Requested	<input type="checkbox"/>	Returned for Corrections	<input type="checkbox"/>	Return Corrected Prints
<input type="checkbox"/>	For Review and Comment	<input type="checkbox"/>		<input type="checkbox"/>	PRINTS RETURNED AFTER LOAN TO US
<input type="checkbox"/>	FOR BIDS DUE:	<input type="checkbox"/>		<input type="checkbox"/>	

**Comments:**


<b>Copy To:</b>	Amy Willoughby - National Grid LNG LLC	<b>Signed:</b>	Sophia Narkiewicz, P.E.
	William Howard - National Grid LNG LLC		Project Manager

*If enclosures are not as noted, kindly notify us at once.*

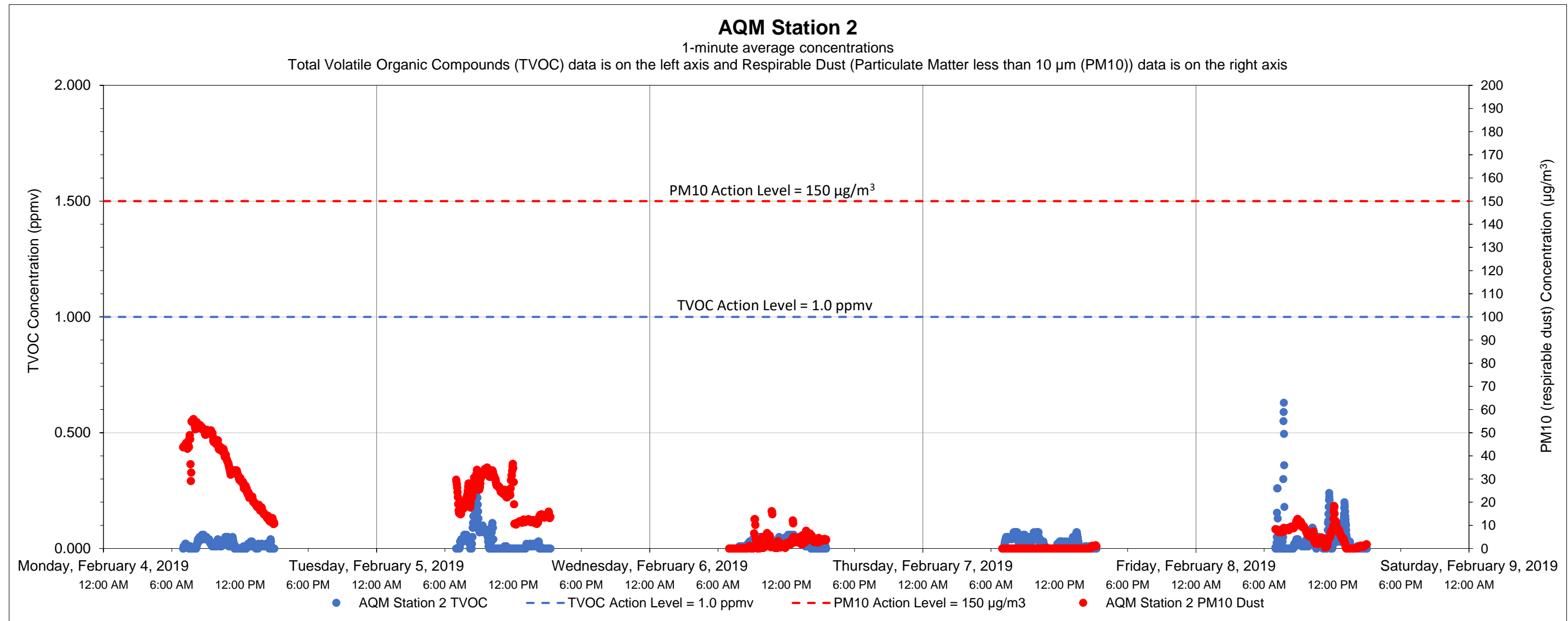


Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Equipment Notes
None

Data Summary Statistics	
TVOCs average concentration	0.07 ppm
TVOCs maximum concentration	0.84 ppm
TVOCs action level	1 ppm
PM10 average concentration	20.74 µg/m <sup>3</sup>
PM10 maximum concentration	68.82 µg/m <sup>3</sup>
PM10 action level	150 µg/m <sup>3</sup>

- Notes:**
- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
  - 2) The location of each AQM Station is presented on the attached summary figure.
  - 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N - Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Equipment Notes
None

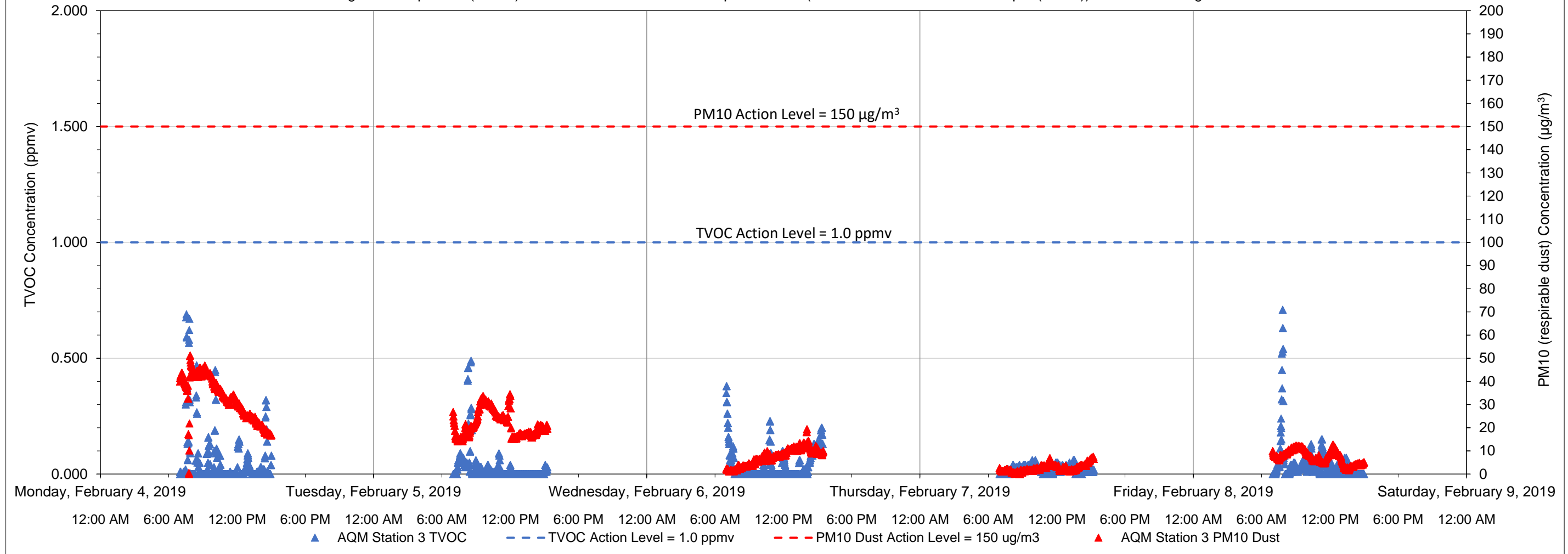
Data Summary Statistics		
TVOCs average concentration	0.03	ppm
TVOCs maximum concentration	0.63	ppm
TVOCs action level	1	ppm
PM10 average concentration	12.63	µg/m³
PM10 maximum concentration	55.97	µg/m³
PM10 action level	150	µg/m³

- Notes:**
- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
  - 2) The location of each AQM Station is presented on the attached summary figure.
  - 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N - Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.

### AQM Station 3

1-minute average concentrations

Total Volatile Organic Compounds (TVOC) data is on the left axis and Respirable Dust (Particulate Matter less than 10 µm (PM10)) data is on the right axis



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Equipment Notes
None

Data Summary Statistics		
TVOCs average concentration	0.03	ppm
TVOCs maximum concentration	0.71	ppm
TVOCs action level	1	ppm
PM10 average concentration	14.27	µg/m <sup>3</sup>
PM10 maximum concentration	51.27	µg/m <sup>3</sup>
PM10 action level	150	µg/m <sup>3</sup>

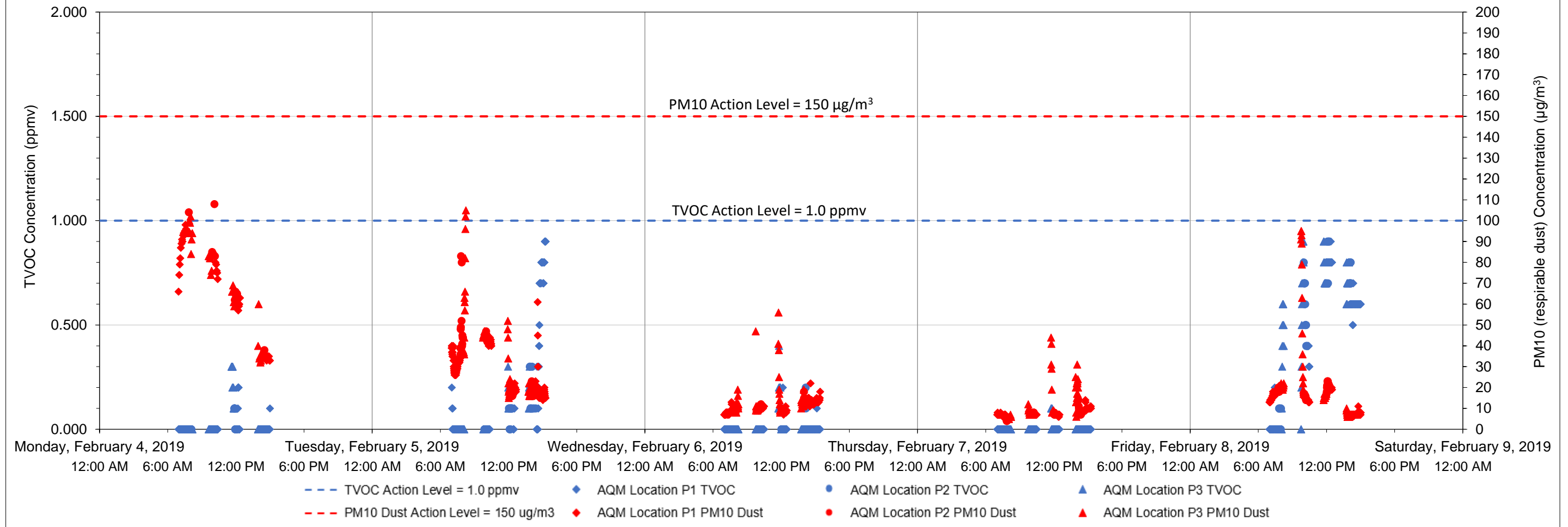
**Notes:**

- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM Station is presented on the attached summary figure.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N - Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.

### Roving Air Monitoring Unit

3-minute average concentrations

Total Volatile Organic Compounds (TVOC) data is on the left axis and Respirable Dust (Particulate Matter less than 10 µm (PM10)) data is on the right axis



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				
Equipment Notes				
None				

Data Summary Statistics		
TVOCs average concentration	0.09	ppm
TVOCs maximum concentration	0.90	ppm
TVOCs action level	1	ppm
PM10 average concentration	21.48	µg/m <sup>3</sup>
PM10 maximum concentration	98.00	µg/m <sup>3</sup>
PM10 action level	150	µg/m <sup>3</sup>

**Notes:**

- 1) Transient readings were conducted over a three minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM location is presented on the attached summary figure. This graph depicts data collected by the roving unit.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N - Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.

2018 - GZA GeoEnvironmental, Inc. GZA-J:\ENV\33554.60.MSK\FIGURES\CAD\DWGS\33554.60\_11X17 AERIAL.DWG ANSI B - 17X11 DECEMBER 19, 2018 USA THERIAULT

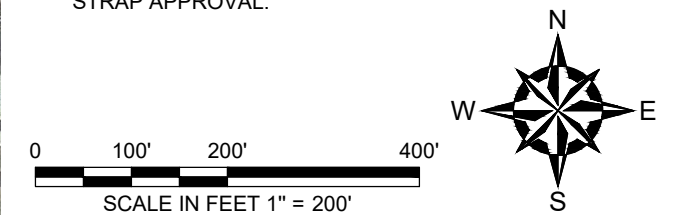


**LEGEND:**

- 642 ALLENS AVENUE FORMER MGP SITE
- PROJECT WORK SITE
- STRAP AREA (LIMITS OF GROUNDWATER AND SOIL DISTURBANCE)
- AIR QUALITY MONITORING (AQM) STATION
- HANDHELD MONITORING LOCATION

**REFERENCE NOTES:**

1. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED IN FEBRUARY 2018.
2. SITE BOUNDARIES ARE APPROXIMATE.
3. PERIMETER AIR MONITORING PROGRAM CONDUCTED AS DESCRIBED IN THE MAY 12, 2017 SHORT TERM RESPONSE ACTION PLAN (STRAP) AND OCTOBER 11, 2017 STRAP ADDENDUM, WHICH WERE APPROVED BY RIDEM WITH THE OCTOBER 27, 2017 STRAP APPROVAL.



THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY NATIONAL GRID OR THE NATIONAL GRID'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA AND NATIONAL GRID. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA AND NATIONAL GRID, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA AND NATIONAL GRID.

<b>NATIONAL GRID LIQUEFACTION FACILITY PERIMETER AIR MONITORING PROGRAM PROVIDENCE, RHODE ISLAND</b>			
<b>Summary Figure</b> Week of 2-4-19			
PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: SDN DESIGNED BY: SDN DATE: W/O 2-4-19	REVIEWED BY: MSK DRAWN BY: LDT PROJECT NO.: 33554.04	CHECKED BY: MSK SCALE: AS NOTED REVISION NO.: 0	FIGURE <b>1</b> SHEET NO.