



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

# TRANSMITTAL

<b>Date:</b> 07/06/2021	<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 Land Revitalization and Sustainable Materials
	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
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<b>Description</b>
Air Quality Monitoring (AQM) Results – Week of 06/28/2021 (06/28/2021, 06/29/2021, 06/30/2021, 07/01/2021, and 07/02/2021) AQM Station 1 Graph      AQM Station 4 Graph AQM Station 2 Graph      AQM Station 5 Graph AQM Station 3 Graph      AQM Station 6 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"/>	

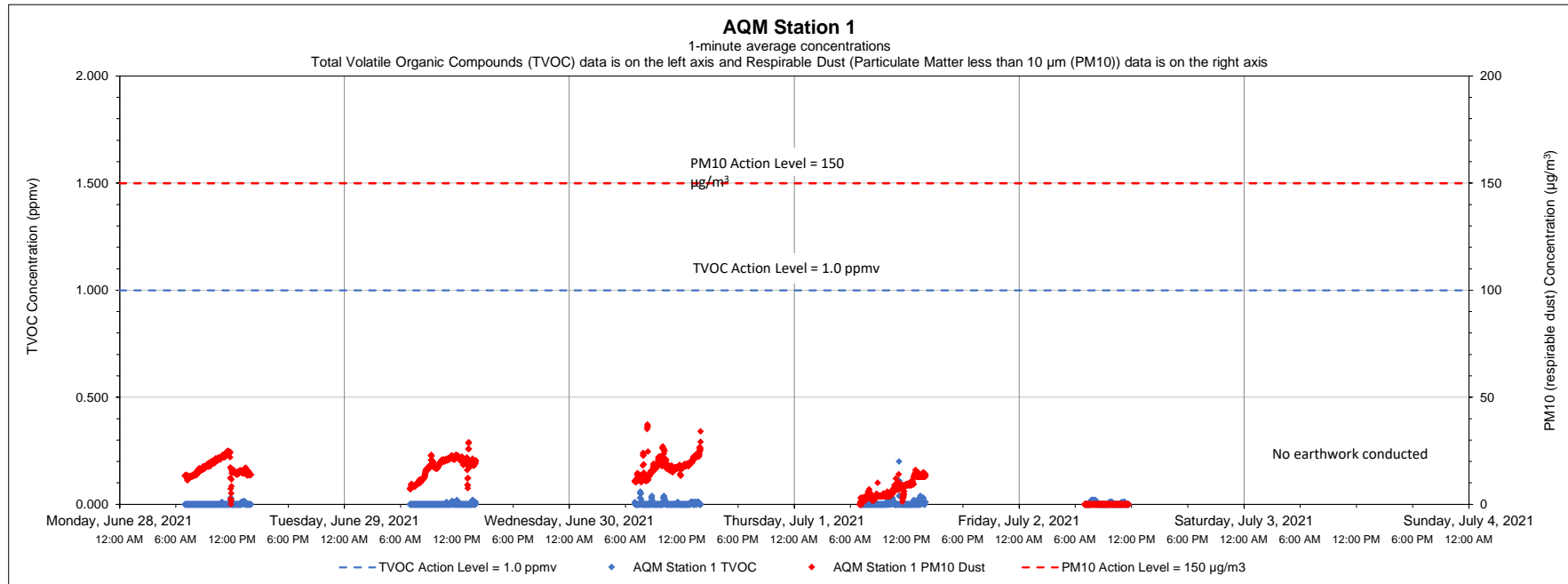
**Comments:**


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

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

Prepared by GZA on behalf of National Grid LNG LLC  
 Liquefaction Facility Project -  
 STRAP Perimeter Air Quality Monitoring (AQM)  
 121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island

GZA Job No. 03.0033554.04  
 7/06/2021



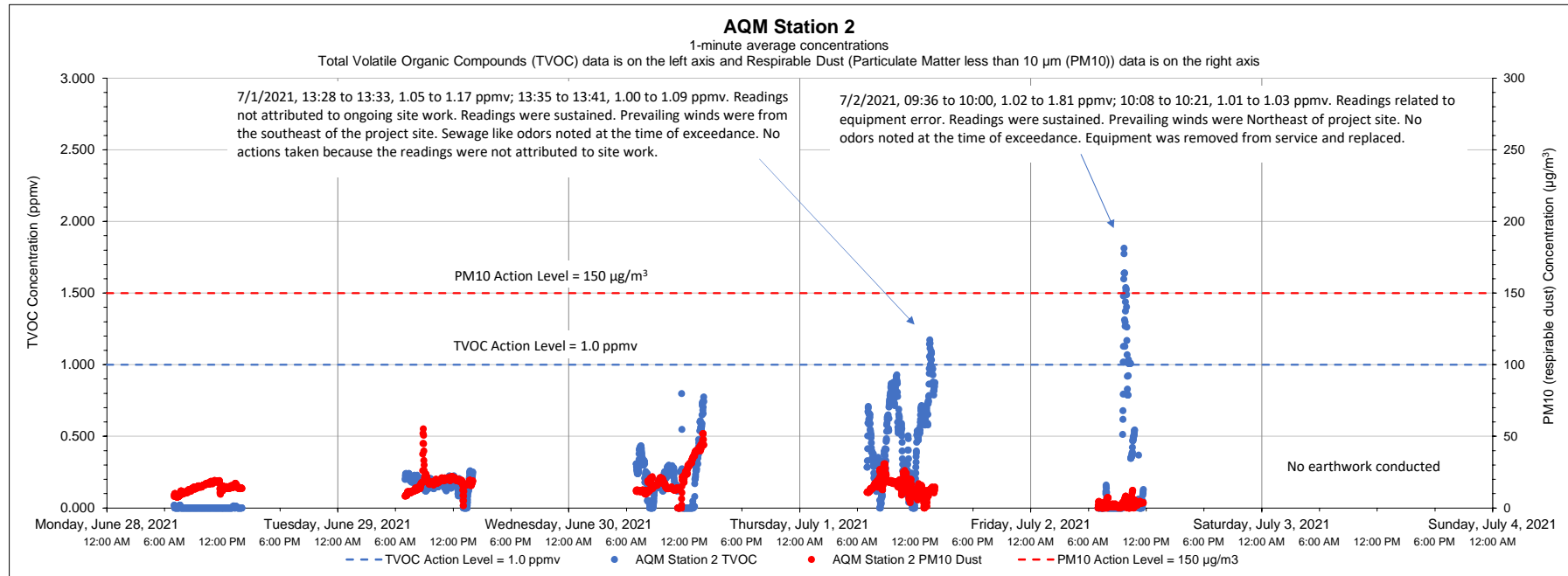
Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Data Summary Statistics	
TVOCs average concentration	0.00 ppm
TVOCs maximum concentration	0.20 ppm
TVOCs action level	1 ppm
PM10 average concentration	12.66 µg/m <sup>3</sup>
PM10 maximum concentration	37.32 µg/m <sup>3</sup>
PM10 action level	150 µg/m <sup>3</sup>

Equipment Notes
None

**Notes:**

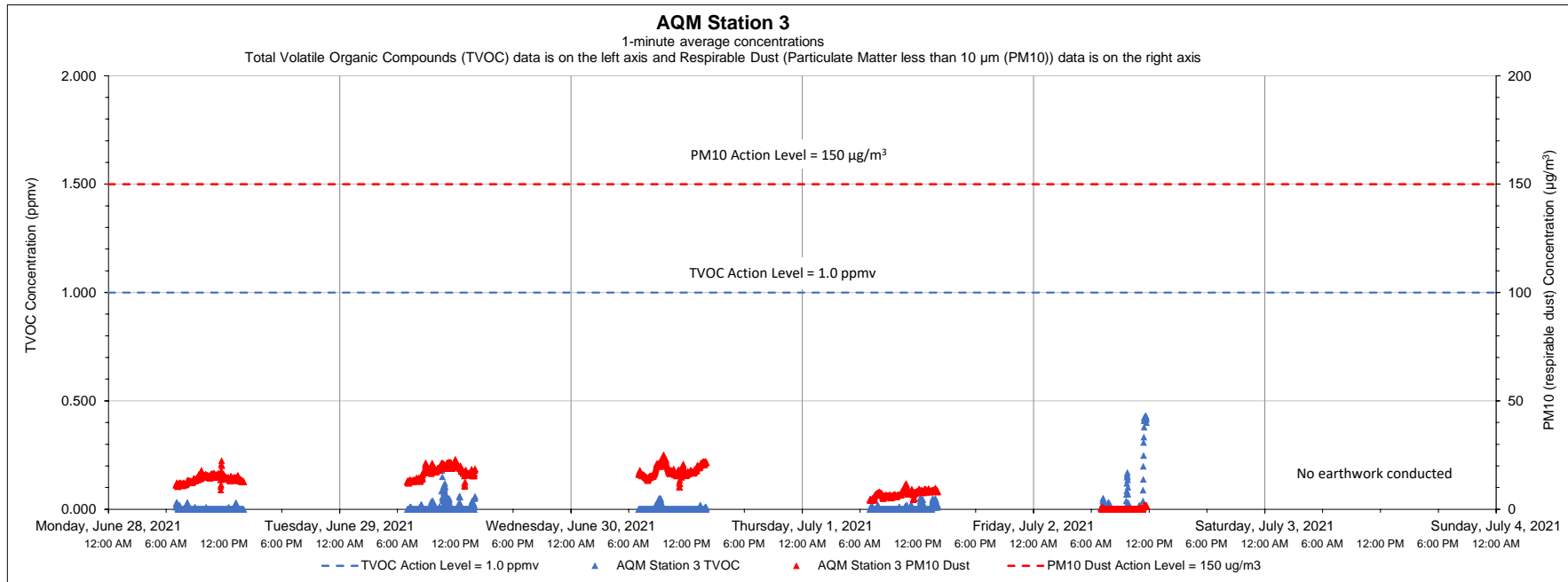
- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM Station is presented on the attached summary figure.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short 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
7/1/2021	13:28 to 13:33	TVOC	1.05 to 1.17 ppmv	No actions taken because the readings were not attributed to site work
7/1/2021	13:35 to 13:41	TVOC	1.00 to 1.09 ppmv	No actions taken because the readings were not attributed to site work
7/2/2021	09:36 to 10:00	TVOC	1.02 to 1.81 ppmv	Equipment was removed from service and replaced.
7/2/2021	10:08 to 10:21	TVOC	1.01 to 1.03 ppmv	Equipment was removed from service and replaced.
<b>Equipment Notes</b>				
7/2/2021 - Equipment error caused sustained action level exceedances. A handheld PID was utilized to confirm that the station's readings were inaccurate, and the site was checked for odors. Troubleshooting was performed to resolve error. Equipment was removed from service and replaced.				

Data Summary Statistics	
TVOCs average concentration	0.22 ppm
TVOCs maximum concentration	1.81 ppm
TVOCs action level	1 ppm
PM10 average concentration	14.70 µg/m <sup>3</sup>
PM10 maximum concentration	55.28 µg/m <sup>3</sup>
PM10 action level	150 µg/m <sup>3</sup>

- Notes:**
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Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Data Summary Statistics	
TVOCs average concentration	0.01 ppm
TVOCs maximum concentration	0.43 ppm
TVOCs action level	1 ppm
PM10 average concentration	12.20 µg/m <sup>3</sup>
PM10 maximum concentration	25.04 µg/m <sup>3</sup>
PM10 action level	150 µg/m <sup>3</sup>

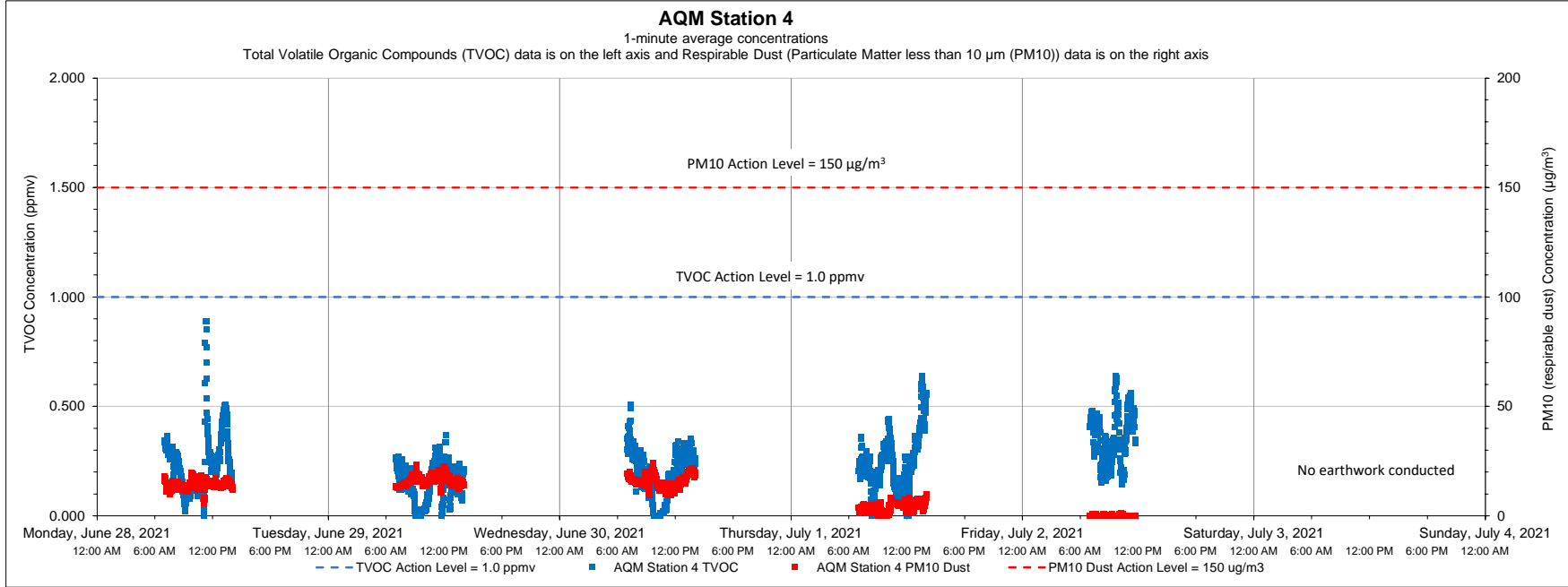
Equipment Notes	
None	

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**Prepared by GZA on behalf of National Grid LNG LLC**  
**Liquefaction Facility Project -**  
**STRAP Perimeter Air Quality Monitoring (AQM)**  
**121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island**

GZA Job No. 03.0033554.04  
 7/06/2021

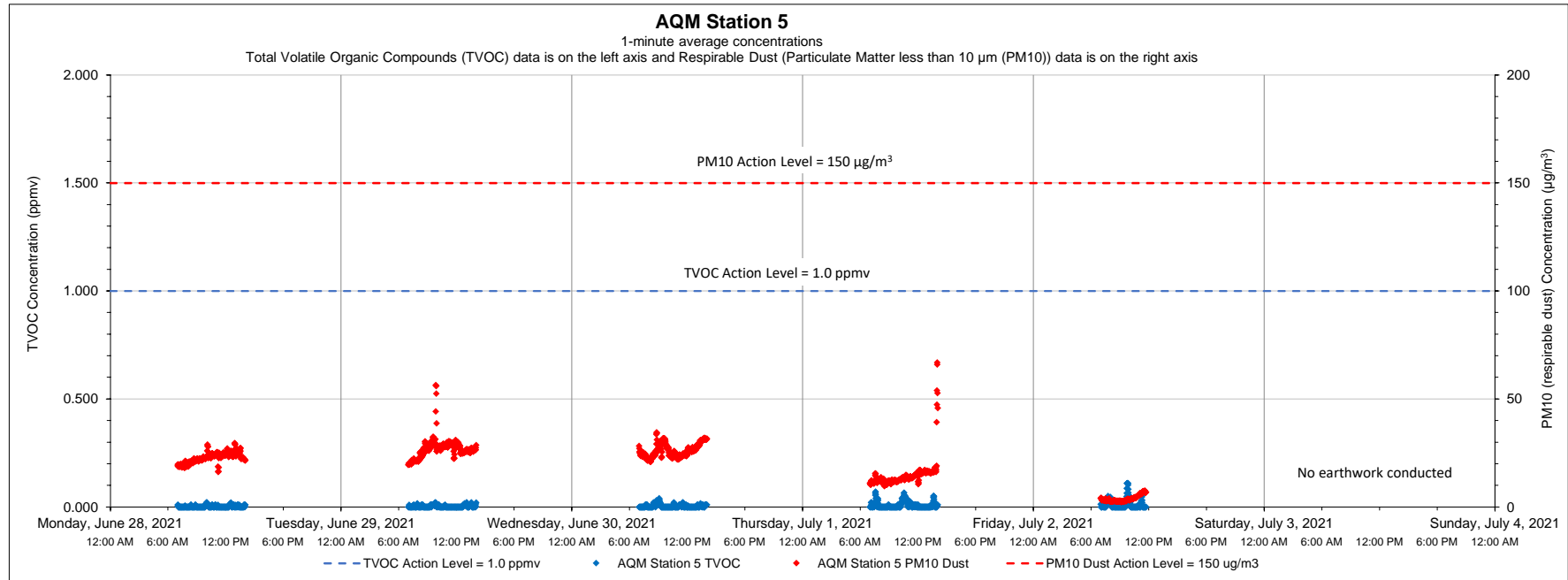


Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				
<b>Equipment Notes</b>				
None				

Data Summary Statistics	
TVOCs average concentration	0.23 ppm
TVOCs maximum concentration	0.89 ppm
TVOCs action level	1 ppm
PM10 average concentration	10.76 µg/m <sup>3</sup>
PM10 maximum concentration	24.09 µg/m <sup>3</sup>
PM10 action level	150 µg/m <sup>3</sup>

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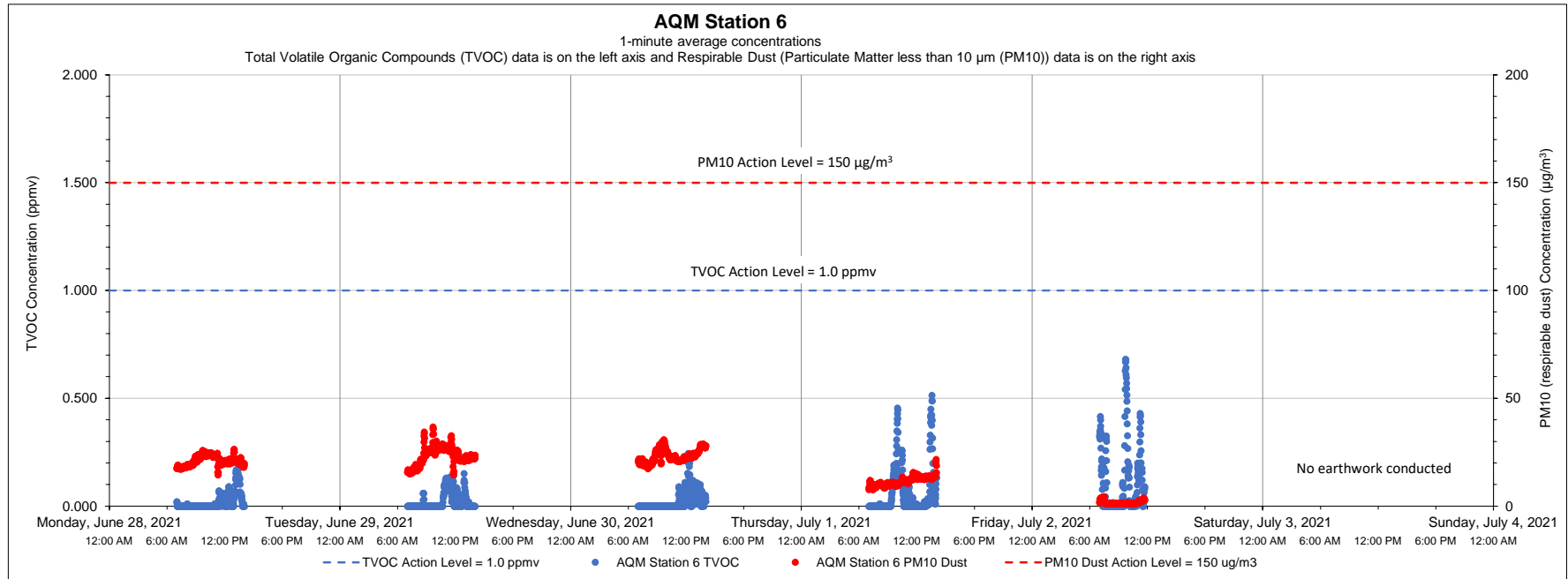
Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Data Summary Statistics	
TVOCs average concentration	0.01 ppm
TVOCs maximum concentration	0.11 ppm
TVOCs action level	1 ppm
PM10 average concentration	19.71 µg/m <sup>3</sup>
PM10 maximum concentration	66.84 µg/m <sup>3</sup>
PM10 action level	150 µg/m <sup>3</sup>

Equipment Notes	
None	

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

Data Summary Statistics		
TVOCs average concentration	0.04	ppm
TVOCs maximum concentration	0.68	ppm
TVOCs action level	1	ppm
PM10 average concentration	17.17	µg/m <sup>3</sup>
PM10 maximum concentration	36.69	µg/m <sup>3</sup>
PM10 action level	150	µg/m <sup>3</sup>

Equipment Notes				
None				

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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

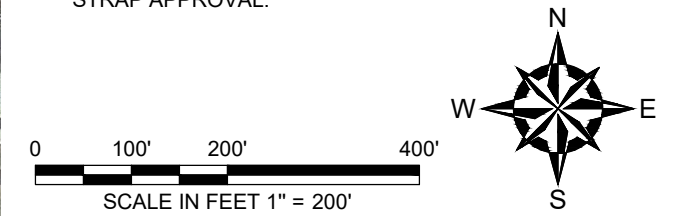


**LEGEND:**

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

**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.



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<p><b>NATIONAL GRID LIQUEFACTION FACILITY PERIMETER AIR MONITORING PROGRAM PROVIDENCE, RHODE ISLAND</b></p>			
<p><b>Summary Figure Week of 06-28-2021</b></p>			
<p>PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com</p>		<p>PREPARED FOR: <b>nationalgrid</b></p>	
<p>PROJ MGR: SDN</p>	<p>REVIEWED BY: MSK</p>	<p>CHECKED BY: MSK</p>	<p>FIGURE</p>
<p>DESIGNED BY: SDN</p>	<p>DRAWN BY: LDT</p>	<p>SCALE: AS NOTED</p>	<p><b>1</b></p>
<p>DATE: W/O 06-28-2021</p>	<p>PROJECT NO. 33554.04</p>	<p>REVISION NO. 0</p>	<p>SHEET NO.</p>