

## GZA GeoEnvironmental, Inc.

188 Valley Street, Suite 300

Attention: Mr. Joseph Martella  Attention: Mr. Joseph Martella  Attention: Mr. Joseph Martella  Re: Liquefaction Facility Project  STRAP Perimeter Air Quality Monitoring (AQM)  235 Fromenade Street  Providence, Rhode Island 02908  The semediation File No. SR-28-1152  We are sending you:  Shop Drawings  X Attached  Copy of Letter  Prints  Plans  Specifications  Plans  Specifications  The semediation File No. SR-28-1152  The semediation File No. SR-28-1	rovic	lence.	Rhode Island 02909			Dat	e: 11/18/19	Job N	lo. 03.0033554.04	
To: Rhode Island Department of Environmental Management Office of Waste Management 235 Promenade Street Providence, Rhode Island 02908  Providence, Rhode Island 02908  Providence, Rhode Island 02908  We are sending you:  Shop Drawings X Attached Change Order Samples  Copy of Letter Prints Plans Specifications  Under Separate Cover, the following Items:  Via:  How Shipped: X Via Email Courier Regular Mail Hand Delivered/Picked Up  Description Air Quality Monitoring (AQM) Site Remediation File No. SR-28-1152  We are sending you:  Copy of Letter Prints Plans Specifications  Plans Specifications  Plans Apecide Regular Mail Hand Delivered/Picked Up  Description Air Quality Monitoring (AQM) Site Remediation File No. SR-28-1152						Attention: Mr. Joseph Martella				
Office of Waste Management 235 Promenade Street Providence, Rhode Island 02908    Street			. ( . ,							
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Site Remediation File No. SR-28-1152    Soperate Cover		235 Promenade Street				121 Terminal Road/	642 Allens A	Avenue		
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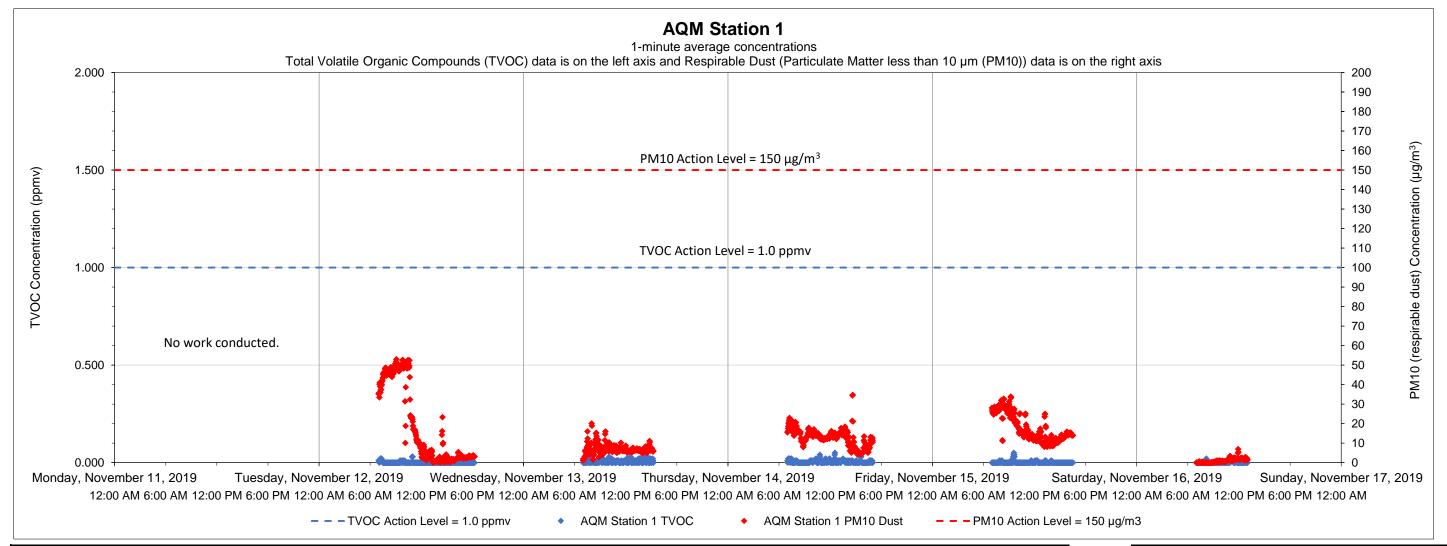
**TRANSMITTAL** 

GZA Job No. 03.0033554.04 11/16/2019

Liquefaction Facility Project -

STRAP Perimeter Air Quality Monitoring (AQM)

121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island



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

Equipment Notes	
None	

Data Summary St	atistics	
TVOCs average concentration	0.00	ppm
TVOCs maximum concentration	0.05	ppm
TVOCs action level	1	ppm
PM10 average concentration	12.51	μg/m³
PM10 maximum concentration	52.98	μg/m³
PM10 action level	150	μg/m³

## Notes:

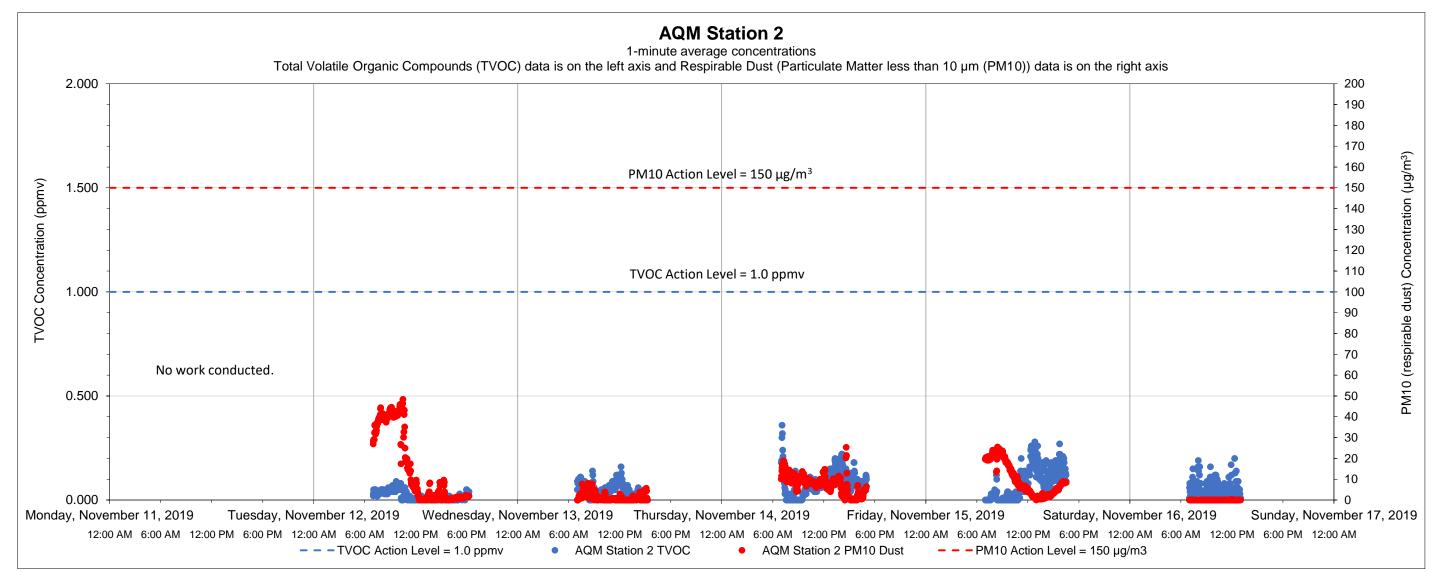
- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM Station is presented on the attached summary figure.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short 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.

GZA Job No. 03.0033554.04 11/16/2019

Liquefaction Facility Project -

STRAP Perimeter Air Quality Monitoring (AQM)

121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island



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

Equipment Notes	
None	

Data Summary Statistics				
TVOCs average concentration	0.06	ppm		
TVOCs maximum concentration	0.36	ppm		
TVOCs action level	1	ppm		
PM10 average concentration	7.80	μg/m³		
PM10 maximum concentration		μg/m³		
PM10 action level	150	μg/m³		

## Notes:

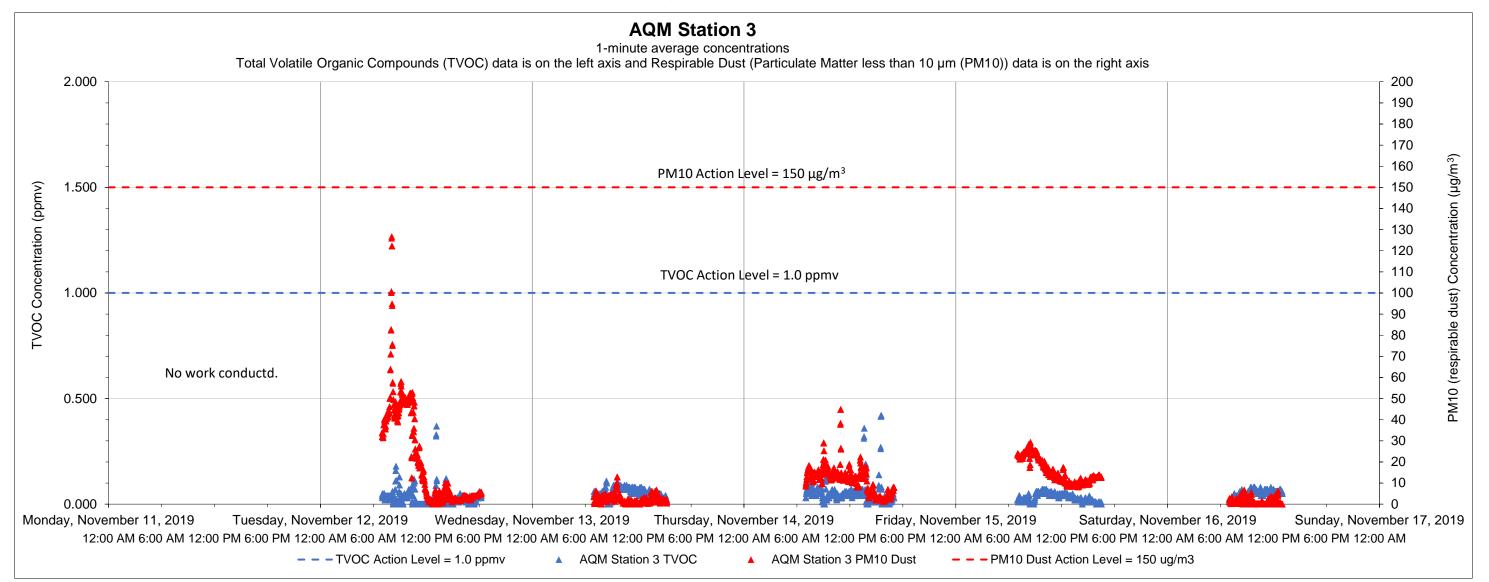
- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM Station is presented on the attached summary figure.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short 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 active STRAP activities.

GZA Job No. 03.0033554.04 11/16/2019

Liquefaction Facility Project -

STRAP Perimeter Air Quality Monitoring (AQM)

121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island



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

Equipment Notes
None

Data Summary Statistics				
TVOCs average concentration	0.04	ppm		
TVOCs maximum concentration	0.42	ppm		
TVOCs action level	1	ppm		
PM10 average concentration	11.30	μg/m³		
PM10 maximum concentration	126.71	μg/m³		
PM10 action level	150	μg/m <sup>3</sup>		

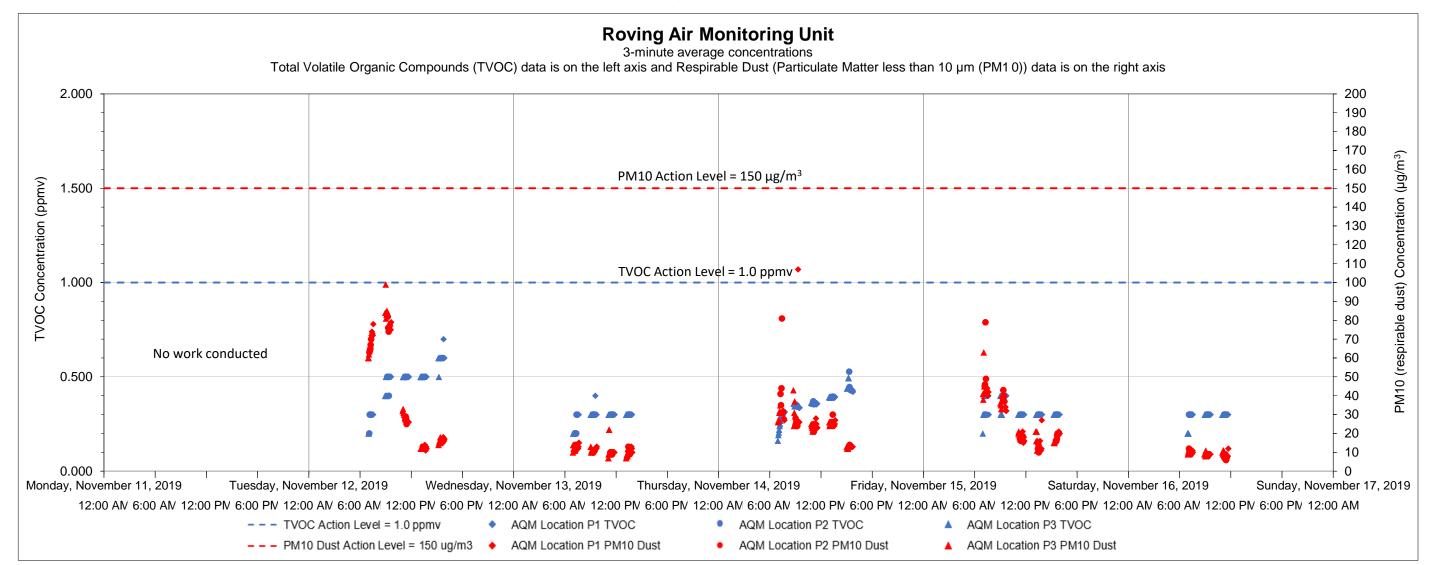
## **Notes:**

- 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.

Liquefaction Facility Project -

STRAP Perimeter Air Quality Monitoring (AQM)

121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island



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

Equipment Notes	
None	

Data Summary Statistics								
TVOCs average concentration	0.36	ppm						
TVOCs maximum concentration	0.70	ppm						
TVOCs action level	1	ppm						
PM10 average concentration	22.28	μg/m³						
PM10 maximum concentration		μg/m³						
PM10 action level	150	μg/m³						

#### 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 active STRAP activities.



BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED IN FEBRUARY 2018.

642 ALLENS AVENUE FORMER MGP SITE

STRAP AREA (LIMITS OF GROUNDWATER

HANDHELD MONITORING LOCATIONS

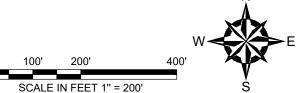
AIR QUALITY MONITORING (AQM)

PROJECT WORK SITE

STATION

AND SOIL DISTURBANCE)

- 2. SITE BOUNDARIES ARE APPROXIMATE.
- 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 THE DRAWING THE DRAWING THE DRAWING THE USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF 62A AND ANTONAL GRID, ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF 62A AND NATIONAL GRID, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY R IS K OR LIABLY LITY OF 62A AND NATIONAL GRID.

NATIONAL GRID LIQUEFACTION FACILITY PERIMETER AIR MONITORING PROGRAM PROVIDENCE, RHODE ISLAND

# **Summary Figure** Week of 11-11-19

PREPARED BY:			PREPARED FOR:				
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com			national <b>grid</b>				
PROJ MGR:	SDN	REVIEWED BY:	MSK	CHECKED	BY:	MSK	FIGURE
DESIGNED BY:	SDN	DRAWN BY:	LDT	SCALE:	AS	NOTED	4
DATE:		PROJECT NO		REVISIO	N NO	).	
W/O 11-11-19		33554.04		0			SHEET NO