**TRANSMITTAL**

**Date:** 8/24/2020  
**Job No.:** 03.003354.04

**Attention:** Mr. Joseph Martella

**Re:** 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

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**To:** Rhode Island Department of Environmental Management  
Office of Land Revitalization and Sustainable Materials  
Management  
235 Promenade Street  
Providence, Rhode Island 02908

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We are sending you:

- [ ] Shop Drawings  
- [X] Attached  
- [ ] Change Order  
- [ ] Samples

- [ ] Copy of Letter  
- [ ] Prints  
- [ ] Plans  
- [ ] Specifications

Under Separate Cover, the following Items:

How Shipped:

- [X] Via Email  
- [ ] Courier  
- [ ] Regular Mail  
- [ ] Hand Delivered/Picked Up

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**Description**

Air Quality Monitoring (AQM) Results –  
Week of 8/17/2020 (8/17/2020, 8/18/2020, 8/19/2020, 8/20/2020 and 8/21/2020)

- 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

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**THESE ARE TRANSMITTED** as checked below:

- For Approval  
- Approved as Submitted  
- Resubmit Copies for Approval

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- As Requested  
- Returned for Corrections  
- Return Corrected Prints

- For Review and Comment  
- PRINTS RETURNED AFTER LOAN TO US

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**FOR BIDS DUE:**

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Comments:

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**Copy To:**  
Amy Willoughby - National Grid LNG LLC  
Signed:  
Sara Haupt, P.E.

William Howard - National Grid LNG LLC  
Assistant Project Manager

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

TVOCs average concentration = 0.03 ppmv
TVOCs maximum concentration = 0.80 ppmv
TVOCs action level = 1 ppmv

PM10 average concentration = 10.05 µg/m³
PM10 maximum concentration = 22.13 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.
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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

- **TVOC Action Level**: 1.0 ppmv
- **PM10 Action Level**: 150 µg/m³

### Data Summary Statistics

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Observed Range of Sustained Readings</th>
<th>Response Actions Performed</th>
<th>Data Summary Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs average concentration</td>
<td>0.02 ppm</td>
<td></td>
<td>TVOCs average concentration</td>
</tr>
<tr>
<td>TVOCs maximum concentration</td>
<td>0.19 ppm</td>
<td></td>
<td>TVOCs maximum concentration</td>
</tr>
<tr>
<td>TVOCs action level</td>
<td>1 ppm</td>
<td></td>
<td>TVOCs action level</td>
</tr>
<tr>
<td>PM10 average concentration</td>
<td>7.54 µg/m³</td>
<td></td>
<td>PM10 average concentration</td>
</tr>
<tr>
<td>PM10 maximum concentration</td>
<td>14.98 µg/m³</td>
<td></td>
<td>PM10 maximum concentration</td>
</tr>
<tr>
<td>PM10 action level</td>
<td>150 µg/m³</td>
<td></td>
<td>PM10 action level</td>
</tr>
</tbody>
</table>

### 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.
AQM Station 4

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

PM10 Action Level = 150 µg/m³
TVOC Action Level = 1.0 ppmv

No Earthwork Conducted

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Constituent</th>
<th>Observed Range of Sustained Readings</th>
<th>Response Actions Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

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AQM Station 5
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.

- TVOC Action Level = 1.0 ppmv
- PM10 Action Level = 150 µg/m³

### Data Summary Statistics

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Observed Range of Sustained Readings</th>
<th>Response Actions Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs average concentration</td>
<td>0.01 ppmv</td>
<td></td>
</tr>
<tr>
<td>TVOCs maximum concentration</td>
<td>0.10 ppmv</td>
<td></td>
</tr>
<tr>
<td>TVOCs action level</td>
<td>1 ppmv</td>
<td></td>
</tr>
<tr>
<td>PM10 average concentration</td>
<td>11.63 µg/m³</td>
<td></td>
</tr>
<tr>
<td>PM10 maximum concentration</td>
<td>23.77 µg/m³</td>
<td></td>
</tr>
<tr>
<td>PM10 action level</td>
<td>150 µg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### 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.
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.

**AQM Station 6**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Constituent</th>
<th>Observed Range of Sustained Readings</th>
<th>Response Actions Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1) TVOC action level = 1.0 ppmv</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>2) PM10 action level = 150 µg/m^3</td>
</tr>
</tbody>
</table>

**Data Summary Statistics**

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs average concentration</td>
<td>0.01 ppm</td>
</tr>
<tr>
<td>TVOCs maximum concentration</td>
<td>0.57 ppm</td>
</tr>
<tr>
<td>TVOCs action level</td>
<td>1 ppm</td>
</tr>
<tr>
<td>PM10 average concentration</td>
<td>13.55 µg/m^3</td>
</tr>
<tr>
<td>PM10 maximum concentration</td>
<td>26.29 µg/m^3</td>
</tr>
<tr>
<td>PM10 action level</td>
<td>150 µg/m^3</td>
</tr>
</tbody>
</table>

**Notes:**

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**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. 03.033554.04

08/24/2020
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.

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

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

Summary Figure
Week of 8-17-2020

SCALE IN FEET 1" = 200'