TRANSMITTAL

Date: 9/16/19       Job No.: 03.0033554.04
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

To: Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
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:

Air Quality Monitoring (AQM) Results –
Week of 9/9/19 (9/9/19, 9/10/19, 9/11/19, 9/12/19, and 9/13/19)
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:

For Approval
Approved as Submitted
Resubmit Copies for Approval

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Approved as Noted
Submit Copies for Distribution

As Requested
Returned for Corrections
Return Corrected Prints

For Review and Comment
PRINTS RETURNED AFTER LOAN TO US

FOR BIDS DUE:

Comments:

Copy To: Amy Willoughby - National Grid LNG LLC
William Howard - National Grid LNG LLC

Signed: Sophia Narkiewicz, P.E.
Project Manager

If enclosures are not as noted, kindly notify us at once.
### AQM Station 1

- **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.

#### Data Summary Statistics

<table>
<thead>
<tr>
<th>Constituent</th>
<th>TVOCs average concentration</th>
<th>TVOCs maximum concentration</th>
<th>TVOCs action level</th>
<th>PM10 average concentration</th>
<th>PM10 maximum concentration</th>
<th>PM10 action level</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0.04 ppm</td>
<td>0.59 ppm</td>
<td>1 ppm</td>
<td>7.35 µg/m³</td>
<td>86.37 µg/m³</td>
<td>150 µg/m³</td>
</tr>
</tbody>
</table>

#### Equipment Notes

- None

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### 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

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.

TVOCs average concentration 0.01 ppm
TVOCs maximum concentration 0.84 ppm
TVOCs action level 1 ppm
PM10 average concentration 0.99 µg/m³
PM10 maximum concentration 13.76 µg/m³
PM10 action level 150 µg/m³
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

Date: 9/16/2019

**TVOCs average concentration:** 0.07 ppm
**TVOCs maximum concentration:** 1.09 ppmv
**PM10 average concentration:** 8.24 µg/m³
**PM10 maximum concentration:** 38.61 µg/m³
**PM10 action level:** 150 µg/m³

**AQM Station 3**

1-minute average concentrations

- **TVOC Action Level = 1.0 ppmv**
- **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.
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

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<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>Monday, September 9, 2019</td>
<td>12:00 AM</td>
<td>TVOC</td>
<td>0.14 ppmv</td>
<td></td>
<td>TVOCs average concentration 0.14 ppmv</td>
</tr>
<tr>
<td></td>
<td>6:00 AM</td>
<td>TVOC</td>
<td>0.30 ppmv</td>
<td></td>
<td>TVOCs maximum concentration 0.30 ppmv</td>
</tr>
<tr>
<td></td>
<td>12:00 PM</td>
<td>TVOC</td>
<td>1.0 ppmv</td>
<td></td>
<td>TVOCs action level 1 ppmv</td>
</tr>
<tr>
<td>Tuesday, September 10, 2019</td>
<td>6:00 AM</td>
<td>PM10</td>
<td>12.96 µg/m³</td>
<td></td>
<td>PM10 average concentration 12.96 µg/m³</td>
</tr>
<tr>
<td></td>
<td>6:00 PM</td>
<td>PM10</td>
<td>48 µg/m³</td>
<td></td>
<td>PM10 maximum concentration 48 µg/m³</td>
</tr>
<tr>
<td>Wednesday, September 11, 2019</td>
<td>12:00 AM</td>
<td>PM10</td>
<td>150 µg/m³</td>
<td></td>
<td>PM10 action level 150 µg/m³</td>
</tr>
</tbody>
</table>

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.
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 LOCATIONS

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.

Summary Figure
Week of 9-9-19

33554.04
Location P3

33554.04
Location P2

33554.04
Location P1

33554.04
Location P4