TRANSMITTAL

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

Date: 12/21/2020 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 Land Revitalization and Sustainable Materials
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:

How Shipped:
- X Via Email
- Courier
- Regular Mail
- Hand Delivered/Picked Up

Description
Air Quality Monitoring (AQM) Results –
Week of 12/14/2020 (12/14/20, 12/15/20, 12/16/20, and 12/18/20)
- 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:

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- FOR BIDS DUE:

Comments:

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

Signed: Sara Haupt, P.E.
Assistant 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.

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

<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>Monday, December 14, 2020</td>
<td>12:00 AM 6:00 PM</td>
<td>TVOC</td>
<td>No Work Conducted</td>
<td></td>
</tr>
<tr>
<td>Tuesday, December 15, 2020</td>
<td>12:00 AM 6:00 PM</td>
<td>PM10</td>
<td>No Work Conducted</td>
<td></td>
</tr>
<tr>
<td>Wednesday, December 16, 2020</td>
<td>12:00 AM 6:00 PM</td>
<td>TVOC</td>
<td>No Work Conducted</td>
<td></td>
</tr>
<tr>
<td>Thursday, December 17, 2020</td>
<td>12:00 AM 6:00 PM</td>
<td>PM10</td>
<td>No Work Conducted</td>
<td></td>
</tr>
<tr>
<td>Friday, December 18, 2020</td>
<td>12:00 AM 6:00 PM</td>
<td>TVOC</td>
<td>No Work Conducted</td>
<td></td>
</tr>
<tr>
<td>Saturday, December 19, 2020</td>
<td>12:00 AM 6:00 PM</td>
<td>PM10</td>
<td>No Work Conducted</td>
<td></td>
</tr>
<tr>
<td>Sunday, December 20, 2020</td>
<td>12:00 AM 6:00 PM</td>
<td>TVOC</td>
<td>No Work Conducted</td>
<td></td>
</tr>
</tbody>
</table>

**Data Summary Statistics**

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Average Concentration</th>
<th>Maximum Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs</td>
<td>0.04 ppm</td>
<td>0.19 ppm</td>
</tr>
<tr>
<td>PM10</td>
<td>150 µg/m³</td>
<td>28.98 µg/m³</td>
</tr>
</tbody>
</table>

**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**

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**AQM Station 2**

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.

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### Data Summary Statistics

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs average concentration</td>
<td>0.10 ppmv</td>
</tr>
<tr>
<td>TVOCs maximum concentration</td>
<td>0.57 ppmv</td>
</tr>
<tr>
<td>TVOCs action level</td>
<td>1 ppmv</td>
</tr>
<tr>
<td>PM10 average concentration</td>
<td>3.12 µg/m³</td>
</tr>
<tr>
<td>PM10 maximum concentration</td>
<td>14.62 µg/m³</td>
</tr>
<tr>
<td>PM10 action level</td>
<td>150 µg/m³</td>
</tr>
</tbody>
</table>

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### 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**

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**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>Data Summary Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs average conc.</td>
<td>0.01 ppm</td>
</tr>
<tr>
<td>TVOCs maximum conc.</td>
<td>0.42 ppm</td>
</tr>
<tr>
<td>TVOCs action level</td>
<td>1 ppm</td>
</tr>
<tr>
<td>PM10 average conc.</td>
<td>3.27 µg/m³</td>
</tr>
<tr>
<td>PM10 maximum conc.</td>
<td>15.95 µg/m³</td>
</tr>
<tr>
<td>PM10 action level</td>
<td>150 µg/m³</td>
</tr>
</tbody>
</table>

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**Notes:**

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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

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

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.

Data Summary Statistics

<table>
<thead>
<tr>
<th>Constituent</th>
<th>TVOCs average concentration</th>
<th>TVOCs maximum concentration</th>
<th>PM10 average concentration</th>
<th>PM10 maximum concentration</th>
<th>PM10 action level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.11 ppm</td>
<td>0.27 ppm</td>
<td>5.39 µg/m³</td>
<td>15.86 µg/m³</td>
<td>150 µg/m³</td>
</tr>
</tbody>
</table>

Equipment Notes
None

Response Actions Performed
No Work Conducted

Data Summary Statistics
TVOCs average concentration: 0.11 ppm
TVOCs maximum concentration: 0.27 ppm
PM10 average concentration: 5.39 µg/m³
PM10 maximum concentration: 15.86 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

**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**

<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></td>
<td></td>
<td>TVOC Concentration (ppmv)</td>
<td></td>
<td></td>
<td>TVOCs average concentration 0.02 ppmv</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TVOCs maximum concentration 0.10 ppmv</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TVOCs action level 1 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM10 (respirable dust) Concentration (µg/m³)</td>
<td></td>
<td></td>
<td>PM10 average concentration 9.60 µg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PM10 maximum concentration 23.80 µg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PM10 action level 150 µg/m³</td>
</tr>
</tbody>
</table>

**Equipment Notes**

<table>
<thead>
<tr>
<th>Note</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

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AQM Station 6

1-minute average concentrations

Total Volatile Organic Compounds (TVOCs) 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

No Work Conducted

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.
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.