GZA GeoEnvironmental, Inc.
188 Valley Street, Suite 300
Providence, Rhode Island 02909
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TRANSMITTAL

Date: 02/01/2021  Job No.: 03.0033554.04
Attention: Mr. Joseph Martella

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

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

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 01/25/2021 (01/25/2021, 01/26/2021, 01/27/2021, 01/28/2021 and 01/29/2021)
   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:

X For Approval  ☐ Approved as Submitted  ☐ Resubmit Copies for Approval
   For Your Use  ☐ 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:  Sara Haupt, P.E.
         Assistant 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
2/01/2021

TVOCs average concentration 0.01 ppm
TVOCs maximum concentration 0.05 ppm
TVOCs action level 1 ppm
PM10 average concentration 5.65 µg/m³
PM10 maximum concentration 16.83 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.
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Liquefaction Facility Project -  
STRAP Perimeter Air Quality Monitoring (AQM)  
121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island

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

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

Data Summary Statistics

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Data</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs average concentration</td>
<td>0.09 ppm</td>
<td></td>
</tr>
<tr>
<td>TVOCs maximum concentration</td>
<td>0.79 ppm</td>
<td></td>
</tr>
<tr>
<td>TVOCs action level</td>
<td>1.0 ppm</td>
<td></td>
</tr>
<tr>
<td>PM10 average concentration</td>
<td>8.25 µg/m³</td>
<td></td>
</tr>
<tr>
<td>PM10 maximum concentration</td>
<td>23.18 µg/m³</td>
<td></td>
</tr>
<tr>
<td>PM10 action level</td>
<td>150 µg/m³</td>
<td></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.
**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.

<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, January 25, 2021</td>
<td>12:00 AM</td>
<td>TVOC</td>
<td>0.000 - 2.000 ppmv</td>
<td></td>
</tr>
<tr>
<td>Tuesday, January 26, 2021</td>
<td>6:00 AM</td>
<td>PM10</td>
<td>0.500 - 50.000 µg/m³</td>
<td></td>
</tr>
<tr>
<td>Wednesday, January 27, 2021</td>
<td>6:00 PM</td>
<td>TVOC</td>
<td>1.000 - 1.500 ppmv</td>
<td></td>
</tr>
<tr>
<td>Thursday, January 28, 2021</td>
<td>6:00 AM</td>
<td>PM10</td>
<td>1.500 - 200.000 µg/m³</td>
<td></td>
</tr>
<tr>
<td>Friday, January 29, 2021</td>
<td>12:00 PM</td>
<td>TVOC</td>
<td>1.000 - 200.000 ppmv</td>
<td></td>
</tr>
<tr>
<td>Saturday, January 30, 2021</td>
<td>6:00 AM</td>
<td>PM10</td>
<td>0.000 - 10.000 µg/m³</td>
<td></td>
</tr>
<tr>
<td>Sunday, January 31, 2021</td>
<td>6:00 PM</td>
<td>TVOC</td>
<td>0.000 - 150.000 ppmv</td>
<td></td>
</tr>
</tbody>
</table>

**Constituent**

- **TVOC Concentration (ppmv)**
- **PM10 Concentration (µg/m³)**

**Response Actions Performed**

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

**Equipment Notes**

- No Earthwork 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.
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

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 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.

**PM10 Action Level = 150 µg/m³**

**TVOC Action Level = 1.0 ppmv**

**PM10 Dust Action Level = 150 µg/m³**

No Earthwork Conducted

**Date** | **Time** | **Constituent** | **Observed Range of Sustained Readings** | **Response Actions Performed** | **Data Summary Statistics**
---|---|---|---|---|---
None | | | | | TVOCs average concentration 0.01 ppm
TVOCs maximum concentration 0.07 ppm
TVOCs action level 1 ppm
PM10 average concentration 13.80 µg/m³
PM10 maximum concentration 26.30 µg/m³
PM10 action level 150 µg/m³

**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.
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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.
**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

**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></td>
<td>0.05 ppm</td>
<td>0.47 ppm</td>
<td>1 ppm</td>
<td>13.33 µg/m³</td>
<td>26.08 µg/m³</td>
<td>150 µg/m³</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.
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.