TRANSMITTAL

Date: 04/19/2021
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 ☑ Attached ☐ Change Order ☐ Samples

☐ Copy of Letter ☐ Prints ☐ Plans ☐ Specifications

☐ Under Separate Cover, the following Items:

How Shipped:

☑ Via Email ☐ Courier ☐ Regular Mail ☐ Hand Delivered/Picked Up

Description
Air Quality Monitoring (AQM) Results –
Week of 04/12/2021 (04/12/2021, 04/13/2021, 04/14/2021, 04/15/2021, 04/16/2021, and 04/17/2021)

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:

☐ 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

☐ FOR BIDS DUE:

☐ PRINTS RETURNED AFTER LOAN TO US

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

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

Date | Time | Constituent | Observed Range of Sustained Readings | Response Actions Performed | Data Summary Statistics
--- | --- | --- | --- | --- | ---
None | None | None | None | None | TVOCs average concentration 0.04 ppm
TVOCs maximum concentration 0.74 ppm
TVOCs action level 1 ppm
PM10 average concentration 2.53 µg/m³
PM10 maximum concentration 13.92 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.
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 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

<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>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TVOCs average concentration</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>0.13 ppm</td>
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<tr>
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<td></td>
<td></td>
<td>TVOCs maximum concentration</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>0.84 ppm</td>
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<td></td>
<td></td>
<td></td>
<td>TVOCs action level</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 ppm</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>PM10 average concentration</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.03 µg/m³</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PM10 maximum concentration</td>
</tr>
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<td>20.81 µg/m³</td>
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<td></td>
<td></td>
<td></td>
<td>PM10 action level</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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.
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: 4/14/2021
Time: 16:52 to 17:01
TVOCs average concentration: 0.05 ppmv
TVOCs maximum concentration: 1.84 ppmv
TVOCs action level: 1 ppmv

PM10 average concentration: 2.90 µg/m³
PM10 maximum concentration: 12.22 µg/m³
PM10 action level: 150 µg/m³

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**TVOCs average concentration**: 0.18 ppm
**TVOCs maximum concentration**: 0.65 ppm
**TVOCs action level**: 1 ppm

**PM10 average concentration**: 5.80 µg/m³
**PM10 maximum concentration**: 18.65 µg/m³
**PM10 action level**: 150 µg/m³

**Notes:**
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Prepared by GZA on behalf of National Grid LNG LLC

Liquefaction Facility Project - STRAP 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 None None None

Equipment Notes: None

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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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Data Summary Statistics

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Average Concentration</th>
<th>Maximum Concentration</th>
<th>Action Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs</td>
<td>0.02 ppm</td>
<td>0.49 ppm</td>
<td>1.0 ppmv</td>
</tr>
<tr>
<td>PM10</td>
<td>4.16 µg/m³</td>
<td>29.91 µg/m³</td>
<td>150 µg/m³</td>
</tr>
</tbody>
</table>

Constituent
TVOC Concentration (ppmv)
PM10 Dust Concentration (µg/m³)

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
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

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<tr>
<th>Constituent</th>
<th>Observed Range of Sustained Readings</th>
<th>Response Actions Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Volatile Organic Compounds (TVOC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respirable Dust (Particulate Matter less than 10 µm (PM10))</td>
<td></td>
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</tbody>
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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.