TRANSMITTAL

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To: Rhode Island Department of Environmental Management
   Office of Waste Management
   235 Promenade Street
   Providence, Rhode Island 02908

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- Shop Drawings [X Attached]
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Description

Air Quality Monitoring (AQM) Results —
Week of 4/1/19 (4/1/19, 4/2/19, 4/3/19, 4/4/19, and 4/5/19)

- AQM Station 1 Graph
- AQM Station 2 Graph
- AQM Station 3 Graph
- Roving Air Monitoring Unit Graph
- Summary Figure

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For Review and Comment
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.

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

#### Equipment Notes

- None

#### Data Summary Statistics

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs average</td>
<td>0.01 ppm</td>
</tr>
<tr>
<td>TVOCs maximum</td>
<td>0.07 ppm</td>
</tr>
<tr>
<td>TVOCs action level</td>
<td>1 ppm</td>
</tr>
<tr>
<td>PM10 average</td>
<td>8.55 µg/m³</td>
</tr>
<tr>
<td>PM10 maximum</td>
<td>32.41 µg/m³</td>
</tr>
<tr>
<td>PM10 action level</td>
<td>150 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.
AQM Station 2

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/m$^3$
TVOC Action Level = 1.0 ppmv

Date | Time | Constituent | Observed Range of Sustained Readings | Response Actions Performed |
--- | --- | --- | --- | --- |
None | None | None | None | None |

Data Summary Statistics

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Average Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs</td>
<td>0.05 ppm</td>
</tr>
<tr>
<td>TVOCs Maximum Concentration</td>
<td>0.15 ppm</td>
</tr>
<tr>
<td>TVOCs Action Level</td>
<td>1 ppm</td>
</tr>
<tr>
<td>PM10 Average Concentration</td>
<td>1.36 µg/m$^3$</td>
</tr>
<tr>
<td>PM10 Maximum Concentration</td>
<td>21.18 µg/m$^3$</td>
</tr>
<tr>
<td>PM10 Action Level</td>
<td>150 µg/m$^3$</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 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>
<th>Data Summary Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td>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</td>
<td>None</td>
<td>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</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.
### Data Summary Statistics

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Average Concentration</th>
<th>Maximum Concentration</th>
<th>Action Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs</td>
<td>0.00 ppm</td>
<td>0.10 ppm</td>
<td>1.0 ppmv</td>
</tr>
<tr>
<td>PM10 (respirable dust)</td>
<td>8.76 µg/m³</td>
<td>63 µg/m³</td>
<td>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.
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.