TRANSMITTAL

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

To: Rhode Island Department of Environmental Management  
Office of Waste 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

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<td>Air Quality Monitoring (AQM) Results –</td>
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<td>Week of 5/27/19 (5/28/19, 5/29/19, 5/30/19, and 5/31/19)</td>
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<td>AQM Station 1 Graph</td>
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<td>AQM Station 2 Graph</td>
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<td>AQM Station 3 Graph</td>
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<td>Roving Air Monitoring Unit Graph</td>
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<td>Summary Figure</td>
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Comments:  

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<tbody>
<tr>
<td>Amy Willoughby - National Grid LNG LLC</td>
<td></td>
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<tr>
<td>William Howard - National Grid LNG LLC</td>
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Signed: Sophia Narkiewicz, P.E.  
Project Manager

Date: 6/3/19  
Job No. 03.0033554.04  
Attention: Mr. Joseph Martella

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

Date
Time
Constituent
Observed Range of Sustained Readings
Response Actions Performed

Data Summary Statistics
TVOCs average concentration 0.07 ppm
TVOCs maximum concentration 0.48 ppm
TVOCs action level 1 ppm
PM10 average concentration 12.81 µg/m³
PM10 maximum concentration 33.81 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.

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

No work conducted.
Data Summary Statistics

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<th>Constituent</th>
<th>Average</th>
<th>Maximum</th>
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<tr>
<td>TVOCs</td>
<td>0.02 ppm</td>
<td>0.29 ppm</td>
</tr>
<tr>
<td>PM10</td>
<td>3.85 µg/m³</td>
<td>28.87 µg/m³</td>
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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.
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 Dust Action Level = 150 µg/m³

No work conducted.

<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>
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<tbody>
<tr>
<td>None</td>
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<td>TVOCs average concentration 0.02 ppm</td>
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<td>TVOCs maximum concentration 0.36 ppm</td>
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<td>TVOCs action level 1 ppm</td>
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<td>PM10 average concentration 8.01 µg/m³</td>
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<td>PM10 maximum concentration 25.48 µg/m³</td>
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<td></td>
<td></td>
<td></td>
<td>PM10 action level 150 µg/m³</td>
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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.
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Liquefaction Facility Project -  
STRAP Perimeter Air Quality Monitoring (AQM)  
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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.

PM10 Action Level = 150 µg/m³

TVOC Action Level = 1.0 ppmv

No work conducted.

Date | Time | Constituent | Observed Range of Sustained Readings | Response Actions Performed | Data Summary Statistics
--- | --- | --- | --- | --- | ---
None | None | None | None | None | TVOCs average concentration 0.03 ppm
TVOCs maximum concentration 0.20 ppm
PM10 action level 1 µg/m³
PM10 average concentration 9.56 µg/m³
PM10 maximum concentration 25 µg/m³
PM10 action level 150 µg/m³

Equipment Notes
None

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.
Figure 1

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 Location

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.