**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 Land Revitalization and Sustainable Materials  
Management  
235 Promenade Street  
Providence, Rhode Island 02908

**Date:** 10/12/2020  
**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

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We are sending you:

- [x] Shop Drawings  
- [ ] Attached  
- [ ] Change Order  
- [ ] Samples

- [ ] Copy of Letter  
- [ ] Prints  
- [ ] Plans  
- [ ] Specifications

Under Separate Cover, the following Items:

- [x] Via Email  
- [ ] Courier  
- [ ] Regular Mail  
- [ ] Hand Delivered/Picked Up

**Description**

Air Quality Monitoring (AQM) Results – Week of 10/05/2020 (10/05/2020, 10/06/2020, 10/07/2020, 10/08/2020, and 10/09/2020)

- 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

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<th>Resubmit Copies for Approval</th>
</tr>
</thead>
<tbody>
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<td>Approved as Noted</td>
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<td>[ ] As Requested</td>
<td>Returned for Corrections</td>
<td>Return Corrected Prints</td>
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<tr>
<td>[ ] For Review and Comment</td>
<td></td>
<td>PRINTS RETURNED AFTER LOAN TO US</td>
</tr>
</tbody>
</table>

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**FOR BIDS DUE:**

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**Comments:**

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**Copy To:**

- Amy Willoughby - National Grid LNG LLC
- William Howard - National Grid LNG LLC

**Signed:**  
Sara Haupt, P.E.  
Assistant Project Manager

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*If enclosures are not as noted, kindly notify us at once.*
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 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>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, October 5, 2020</td>
<td>12:00 AM</td>
<td>TVOCs</td>
<td>&lt;1.0 ppmv</td>
<td>Earthwork Conducted</td>
</tr>
<tr>
<td>Tuesday, October 6, 2020</td>
<td>6:00 AM</td>
<td>TVOCs</td>
<td>&lt;1.0 ppmv</td>
<td>Earthwork Conducted</td>
</tr>
<tr>
<td>Wednesday, October 7, 2020</td>
<td>12:00 AM</td>
<td>TVOCs</td>
<td>&lt;1.0 ppmv</td>
<td>Earthwork Conducted</td>
</tr>
<tr>
<td>Thursday, October 8, 2020</td>
<td>6:00 AM</td>
<td>TVOCs</td>
<td>&lt;1.0 ppmv</td>
<td>Earthwork Conducted</td>
</tr>
<tr>
<td>Friday, October 9, 2020</td>
<td>12:00 AM</td>
<td>TVOCs</td>
<td>&lt;1.0 ppmv</td>
<td>Earthwork Conducted</td>
</tr>
<tr>
<td>Saturday, October 10, 2020</td>
<td>6:00 AM</td>
<td>TVOCs</td>
<td>&lt;1.0 ppmv</td>
<td>Earthwork Conducted</td>
</tr>
<tr>
<td>Sunday, October 11, 2020</td>
<td>12:00 AM</td>
<td>TVOCs</td>
<td>&lt;1.0 ppmv</td>
<td>Earthwork Conducted</td>
</tr>
</tbody>
</table>

PM10 dust concentration (µg/m³)

TVOCs average concentration 0.12 ppm
TVOCs maximum concentration 0.74 ppm
TVOCs action level 1 ppm
PM10 average concentration 6.52 µg/m³
PM10 maximum concentration 30.05 µg/m³
PM10 action level 150 µg/m³

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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.

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

No Earthwork 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>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></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>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Summary Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs average concentration</td>
</tr>
<tr>
<td>TVOCs maximum concentration</td>
</tr>
<tr>
<td>TVOCs action level</td>
</tr>
<tr>
<td>PM10 average concentration</td>
</tr>
<tr>
<td>PM10 maximum concentration</td>
</tr>
<tr>
<td>PM10 action level</td>
</tr>
</tbody>
</table>

Equipment Notes
None

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

**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.

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

**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>0.14 ppmv</td>
<td>0.35 ppmv</td>
<td>1 ppmv</td>
</tr>
<tr>
<td>PM10</td>
<td>10.97 µg/m³</td>
<td>34.80 µg/m³</td>
<td>150 µg/m³</td>
</tr>
</tbody>
</table>

**Notes:**

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Date | Time | Constituent | Observed Range of Sustained Readings | Response Actions Performed | Data Summary Statistics
--- | --- | --- | --- | --- | ---
None | None | None | None | None | TVOCs average concentration: 0.03 ppmv | TVOCs maximum concentration: 0.12 ppmv | TVOCs action level: 1.0 ppmv | PM10 average concentration: 7.90 µg/m³ | PM10 maximum concentration: 26.03 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 Perimeter Air Quality Monitoring (AQM)
121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island

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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PM10 action level</td>
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</table>

**Equipment Notes**

None

**Notes:**

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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.