



*Infrastructure, environment, buildings*

Nathan Putnam  
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625 Broadway  
Albany, New York 12233-7015

Subject:

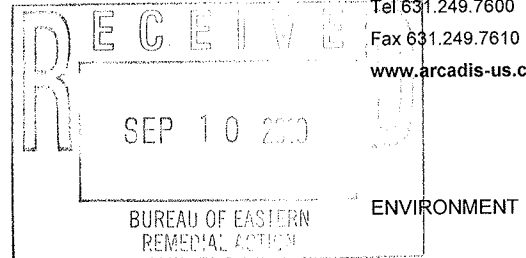
October 2009 through June 2010 System Status Report  
Soil Vapor Recovery System  
United Stellar Industries Property  
131 Sunnyside Boulevard Site, Plainview, New York

Dear Mr. Putnam:

ARCADIS of New York, Inc. (ARCADIS) has prepared this system status report for the Vapor Recovery System (VRS), on behalf of 131 Sunnyside, LLC (Sunnyside) and the Estate of Gertrude Discount (Discount), at the United Stellar Industries Property located at 131 Sunnyside Blvd. in Plainview, New York. A letter report, summarizing the results of the VRS pilot test was submitted to the New York State Department of Environmental Conservation (NYSDEC) by ARCADIS on May 11, 2005. The VRS was restarted and is being operated in accordance with the VRS pilot test extension letter originally submitted to the NYSDEC on September 7, 2005, with NYSDEC comments, dated October 11, 2005, then revised and submitted by ARCADIS on November 18, 2005, with NYSDEC comments, dated February 2, 2006 and ARCADIS responses, dated May 15, 2006.

On September 22, 2009, the NYSDEC accepted the system modifications proposed in the August 20, 2009 submittal, "Air Emission Regulatory Review and Current Status, Related Calculations, and Proposed Modifications to Current System Configuration and Monitoring Procedures" (Regulatory Review). As recommended in the Regulatory Review, the vapor phase granular activated carbon (VPGAC) was taken off-line on December 3, 2009. No complications were encountered during the system modification. The following report provides documentation of all monitoring activities completed during the period beginning on October 1, 2009 and ending on June 30, 2010. During this reporting period (October 1, 2009 to June 30, 2010) the system was operated and the following three performance monitoring events were performed: December 30, 2009, March 25, 2010, and June 16, 2010. Operational and volatile organic compound (VOC) data collected during the monitoring events

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are summarized in Tables 1, 2, and 3. A brief analysis of performance monitoring data is provided below.

### **Vapor Recovery System Operation**

The VRS consists of three vacuum extraction locations (SVE-1, SVE-2 and SVE-3), six induced vacuum/vapor monitoring points (MP-1 through MP-6), a 5-horsepower regenerative blower, and a moisture separator. The two 400 pound VPGACs were removed from system operation on December 3, 2009. Control valves, monitoring gauges, and sample ports were installed as necessary to adjust system operation and provide a means for collecting the data provided within this report. All vapor samples were submitted to Air Toxics Laboratory in Folsom, CA for laboratory analysis via Method TO-14 (Direct Inject).

### **Results**

Operational measurements including applied vacuum levels at each extraction point, extraction air flow rates, and photo-ionization detector (PID) readings are summarized in Table 1. In summary, the VRS is operating as designed. Key observations are as follows:

- Air flow rates at the vacuum extraction points measured during the October 2009 to June 2010 operational period ranged from approximately 30.0 to 90.7 cubic feet per minute (cfm).
- VRS wellhead vacuum measurements during the October 2009 to June 2010 operational period ranged from -36.0 inches water column (i.w.c.) to -42.0 i.w.c.
- PID measurements during the October 2009 to June 2010 operational period were 0.0 parts per million (ppm).
- Induced vacuum levels measured at the monitoring point locations (MP-1 through MP-6) are summarized below:
  - Negative vacuum levels were measured in monitoring points MP-1, MP-2, and MP-6 during the October 2009 to June 2010 operational period.

- Negative vacuum levels were measured in monitoring points MP-3 and MP-4 during the March 25, 2010 and June 16, 2010 monitoring events. There was no induced vacuum measured at monitoring points MP-3 and MP-4 during the December 30, 2009 monitoring event.
- Negative vacuum levels were measured in monitoring point MP-5 during the December 30, 2009 and March 25, 2010 monitoring events. There was no induced vacuum measured at monitoring point MP-5 during the June 16, 2010 monitoring event.

However, the changes in induced vacuum measured at monitoring points MP-3, MP-4 and MP-5 may be due to seasonal variations and as have been observed in the past.

Vapor sample analytical results are summarized in Tables 2 and 3. In all extraction points, VOC concentrations were less than levels observed during the last monitoring event of the pilot test (June 1, 2005). A summary of VOC analytical results is as follows:

- TCE was the only VOC detected at extraction point SVE-1 during the October 2009 to June 2010 reporting period, at concentrations ranging from not detected to 83.0 ug/m<sup>3</sup>. TCE and total volatile organic compounds (TVOC) concentrations decreased significantly from the previous sampling rounds conducted during the March 2008 to September 2009 operational period for all sampling events completed during the October 2009 to June 2010 operational period. TCE and TVOC concentrations are well below the June 2006 levels for all sampling events completed during the October 2009 to June 2010 operating period.
- TCE was the only VOC detected at extraction point SVE-2 during the October 2009 to June 2010 reporting period, at concentrations ranging from 160 ug/m<sup>3</sup> to 200 ug/m<sup>3</sup>. TCE and TVOC concentrations decreased significantly from the previous sampling rounds conducted during the March 2008 to September 2009 operational period for all sampling events completed during the October 2009 to June 2010 operational period. TCE and TVOC concentrations are well below the June 2006 levels for all sampling events completed during the October 2009 to June 2010 operating period.
- The only VOC detected at extraction point SVE-3 during the October 2009 to June 2010 operational period was cis-1,2-dichloroethene (cis-1,2 DCE), at

concentrations ranging from not detected to 27 ug/m<sup>3</sup>. TVOC and cis-1,2-DCE concentrations decreased significantly from the previous sampling rounds conducted during the March 2008 to September 2009 operational period for all sampling events completed during the October 2009 to June 2010 operational period. TVOC and cis-1,2 DCE concentrations are well below the June 2006 levels for all sampling events completed during the October 2009 to June 2010 operating period.

- In addition to the field and laboratory analytical results provided herein, ARCADIS calculated and is providing air modeling results for the three monitoring events completed during the current reporting period. Air modeling calculations were performed using both the influent and effluent concentrations, and the NYSDEC DAR-1 Annual Guidance Concentration (AGC) model. Modeling results are provided in Tables A1 through A3. As shown on the Tables A1 through A3, modeling results indicate that both the influent (i.e., untreated) and effluent (i.e., treated) vapor stream have been below NYSDEC AGCs during the last three monitoring events.

## Conclusions

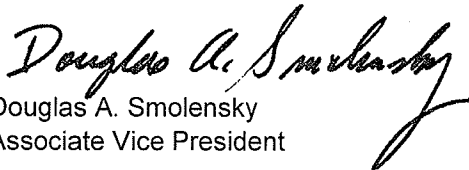
ARCADIS has drawn the following conclusions based on the results provided herein:

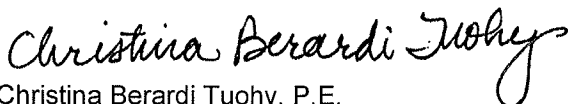
- The VRS operated as intended (i.e., a negative vacuum was maintained and contaminant mass was removed).
- TCE, cis-1,2 DCE and TVOC concentrations have decreased significantly (from the March, 2008 to September, 2009 levels) in each of the three VRS extraction points.
- The highest VOC concentrations were observed in SVE-2 with lower concentrations present at SVE-1 and SVE-3; and,
- NYSDEC DAR-1 AGC emissions calculations indicate that the effluent vapor stream has been below the NYSDEC AGC limits for the last three monitoring events. Additional NYSDEC DAR-1 AGC emissions calculations indicate that the influent vapor stream has also been below NYSDEC AGC limits for the last three monitoring events.

Based on the conclusions above, ARCADIS recommends continued operation of the VRS. Please call if you have questions or require additional information.

Sincerely,

ARCADIS of New York, Inc.

  
Douglas A. Smolensky  
Associate Vice President

  
Christina Berardi Tuohy, P.E.  
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Table 1. System Operational Data, Vapor Recovery System, United Stellar Industries, Plainview, New York.

| Date                   | SVE - 1 Extraction Well Parameters |                    |                                    |                                   | SVE - 2 Extraction Well Parameters |                    |                                    |                                   | SVE - 3 Extraction Well Parameters |                    |                                    |                                   |
|------------------------|------------------------------------|--------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------|------------------------------------|-----------------------------------|
|                        | Wellhead Vacuum (in.W.C.)          | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) | Wellhead Vacuum (in.W.C.)          | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) | Wellhead Vacuum (in.W.C.)          | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) |
| 06/8/06 <sup>(2)</sup> | 0.0                                | --                 | --                                 | --                                | --                                 | --                 | --                                 | --                                | --                                 | --                 | --                                 | --                                |
|                        | -40.0                              | --                 | --                                 | 0.0                               | -39.0                              | --                 | --                                 | 0.0                               | -41.0                              | --                 | --                                 | 0.0                               |
|                        | -40.0                              | --                 | --                                 | 0.0                               | -39.0                              | --                 | --                                 | 0.0                               | -42.0                              | --                 | --                                 | 0.0                               |
| <sup>(3)</sup>         | -40.0                              | 3,600              | 82.4                               | 0.0                               | -39.0                              | 2,600              | 59.5                               | 0.0                               | -42.0                              | 3,400              | 77.9                               | 0.0                               |
| 06/09/06               | -56.0                              | --                 | --                                 | --                                | -56.0                              | --                 | --                                 | --                                | 0.0 <sup>(4)</sup>                 | --                 | --                                 | --                                |
| 06/12/06               | -56.0                              | --                 | --                                 | --                                | -56.0                              | --                 | --                                 | --                                | 0.0 <sup>(4)</sup>                 | --                 | --                                 | --                                |
| 06/16/06               | -39.0                              | 4,400              | 100.8                              | 0.0                               | -38.0                              | 3,800              | 87.0                               | 0.0                               | 40.0 <sup>(7)</sup>                | 3,200              | 73.3                               | 0.0                               |
| 06/30/06               | -38.0                              | 4,650              | 106.5                              | 0.0                               | -38.0                              | 4,520              | 103.5                              | 0.0                               | -40.0                              | 4,800              | 109.9                              | 0.0                               |
| 07/14/06               | -42.0                              | 2,517              | 57.6                               | 0.0                               | -42.5                              | 2,730              | 62.5                               | 0.0                               | -51.0                              | 1,882              | 43.1                               | 0.0                               |
| 07/28/06               | -36.0                              | 2,637              | 60.4                               | 0.0                               | -35.8                              | 1,950              | 44.7                               | 0.0                               | -37.9                              | 2,678              | 61.3                               | 0.0                               |
| 08/11/06               | -36.0                              | --                 | --                                 | 0.0                               | -37.0                              | --                 | --                                 | 0.0                               | -37.0                              | --                 | --                                 | 0.0                               |
| 08/25/06               | -34.5                              | 4,441              | 101.7                              | --                                | -34.0                              | 3,081              | 70.5                               | --                                | -36.1                              | 3,521              | 80.6                               | --                                |
| 09/08/06               | -34.0                              | 3,756              | 86.0                               | 0.0                               | -34.0                              | 3,467              | 79.4                               | 0.0                               | -36.0                              | 4,232              | 96.9                               | 0.0                               |
| 10/05/06               | -34.0                              | 2,788              | 63.8                               | 0.0                               | -34.0                              | 1,729              | 39.6                               | 0.0                               | -36.0                              | 2,950              | 67.5                               | 0.0                               |
| 11/03/06               | -35.0                              | 3,500              | 80.1                               | 0.0                               | -34.0                              | 3,500              | 80.1                               | 0.0                               | -36.0                              | 3,500              | 80.1                               | 0.0                               |
| 12/05/06               | -36.0                              | 3,297              | 75.5                               | 0.0                               | -35.0                              | 2,240              | 51.3                               | 0.0                               | -37.0                              | 2,840              | 65.0                               | 0.0                               |
| 04/26/07               | -37.0                              | 3,240              | 74.2                               | --                                | -39.0                              | 2,908              | 66.6                               | --                                | -37.0                              | 2,552              | 58.4                               | --                                |
| 05/29/07               | -36.0                              | 3,800              | 87.0                               | 0.0                               | -38.0                              | 4,122              | 94.4                               | 0.0                               | -36.0                              | 3,937              | 90.1                               | 0.0                               |
| 06/27/07               | -34.5                              | 4,575              | 104.8                              | 0.0                               | -36.0                              | 4,635              | 106.1                              | 0.0                               | -36.0                              | 4,680              | 107.2                              | 0.0                               |
| 07/26/07               | -32.0                              | 4,561              | 104.4                              | 0.0                               | -33.5                              | 4,638              | 106.2                              | 0.0                               | -31.5                              | 4,702              | 107.7                              | 0.0                               |
| 09/6/07 <sup>(9)</sup> | -29.0                              | 5,230              | 119.8                              | 0.0                               | -29.5                              | 5,187              | 118.8                              | 0.0                               | -28.0                              | 5,183              | 118.7                              | 0.0                               |
| 09/6/07 <sup>(9)</sup> | -34.0                              | --                 | --                                 | --                                | -38.0                              | --                 | --                                 | --                                | -33.5                              | --                 | --                                 | --                                |
| 09/28/07               | -34.0                              | 5,213              | 119.4                              | 0.0                               | -36.0                              | 5,244              | 120.1                              | 0.0                               | -33.0                              | 5,030              | 115.2                              | 0.0                               |



Table 1. System Operational Data, Vapor Recovery System, United Stellar Industries, Plainview, New York.

| Date                     | SVE - 1 Extraction Well Parameters |                    |                                    |                                   | SVE - 2 Extraction Well Parameters |                    |                                    |                                   | SVE - 3 Extraction Well Parameters |                    |                                    |                                   |
|--------------------------|------------------------------------|--------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------|------------------------------------|-----------------------------------|
|                          | Wellhead Vacuum (in.W.C.)          | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) | Wellhead Vacuum (in.W.C.)          | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) | Wellhead Vacuum (in.W.C.)          | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) |
| 10/25/07                 | -34.0                              | 3,401              | 77.9                               | 0.0                               | -36.5                              | 3,343              | 76.5                               | 0.0                               | -34.5                              | 3,414              | 78.2                               | 0.0                               |
| 12/13/07 <sup>(10)</sup> | -38.0                              | 3,170              | 72.6                               | --                                | -39.0                              | 2,591              | 59.3                               | --                                | -37.0                              | 2,690              | 61.6                               | --                                |
| 12/27/07                 | -39.0                              | 3,456              | 79.1                               | 2.0                               | -41.0                              | 3,022              | 69.2                               | 2.0                               | -38.0                              | 3,063              | 70.1                               | 0.0                               |
| 02/5/08 <sup>(12)</sup>  | -41.0                              | 3,120              | 71.4                               | 1.1                               | -42.0                              | 2,747              | 62.9                               | 1.5                               | -40.0                              | 2,842              | 65.1                               | 0.0                               |
| 02/26/08 <sup>(13)</sup> | -37.0                              | 3,120              | 71.4                               | 0.0                               | -38.0                              | 2,747              | 62.9                               | 0.0                               | -37.0                              | 2,842              | 65.1                               | 0.0                               |
| 04/3/08 <sup>(14)</sup>  | -38.0                              | 2,331              | 53.4                               | 0.6                               | -39.0                              | 2,408              | 55.1                               | 0.3                               | -37.0                              | 2,494              | 57.1                               | 0.1                               |
| 04/30/08                 | -37.0                              | 3,266              | 74.8                               | 0.0                               | -39.0                              | 2,850              | 65.3                               | 0.0                               | -36.5                              | 1,545              | 35.4                               | 0.0                               |
| 05/27/08                 | -37.0                              | 3,230              | 74.0                               | 0.0                               | -38.0                              | 1,752              | 40.1                               | 0.0                               | -36.0                              | 2,985              | 68.4                               | 0.0                               |
| 06/26/08                 | -34.0                              | 3,082              | 70.6                               | 0.0                               | -35.5                              | 2,020              | 46.3                               | 0.2                               | -33.0                              | 2,780              | 63.7                               | 0.0                               |
| 07/23/09                 | -33.5                              | 4,273              | 97.8                               | 0.0                               | -34.7                              | 2,534              | 58.0                               | 0.0                               | -33.2                              | 3,269              | 74.9                               | 0.0                               |
| 08/28/08                 | -34.3                              | 3,518              | 80.6                               | 0.0                               | -36.0                              | 2,156              | 49.4                               | 0.0                               | -34.0                              | 2,959              | 67.8                               | 0.0                               |
| 09/30/08                 | -34.0                              | 3,597              | 82.4                               | 0.0                               | -36.0                              | 1,899              | 43.5                               | 0.0                               | -34.0                              | 2,811              | 64.4                               | 0.0                               |
| 10/30/08 <sup>(15)</sup> | -35.0                              | 370                | 8.5                                | 0.0                               | -36.0                              | 460                | 10.5                               | 0.0                               | -34.0                              | 600                | 13.7                               | 0.0                               |
| 11/25/08 <sup>(16)</sup> | -38.0                              | 2,727              | 62.4                               | 0.0                               | -39.0                              | 1,450              | 33.2                               | 0.0                               | -38.0                              | 2,395              | 54.8                               | 0.0                               |
| 12/31/08 <sup>(17)</sup> | --                                 | --                 | --                                 | --                                | --                                 | --                 | --                                 | --                                | --                                 | --                 | --                                 | --                                |
| 01/14/09                 | -39.5                              | 2,707              | 62.0                               | 0.0                               | -40.5                              | 961                | 22.0                               | 0.0                               | -38.5                              | 2,154              | 49.3                               | 0.0                               |
| 02/25/09                 | -37.0                              | 2,721              | 62.3                               | 0.0                               | -39.0                              | 1,112              | 25.5                               | 0.0                               | -37.0                              | 2,453              | 56.2                               | 0.0                               |
| 03/31/09                 | -38.0                              | 2,961              | 67.8                               | 0.0                               | -39.5                              | 1,322              | 30.3                               | 0.3                               | -38.0                              | 2,682              | 61.4                               | 0.0                               |
| 05/12/09 <sup>(18)</sup> | -36.5                              | 3,833              | 87.8                               | 0.0                               | -38.0                              | 1,522              | 34.9                               | 0.0                               | -36.0                              | 2,862              | 65.5                               | 0.0                               |
| 05/28/09                 | -34.5                              | 3,084              | 70.6                               | 0.6                               | -36.0                              | 1,476              | 33.8                               | 1.1 - 1.7                         | -34.0                              | 2,946              | 67.5                               | 0.0 - 0.1                         |
| 06/30/09                 | -33.0                              | 3,196              | 73.2                               | 0.1                               | -35.0                              | 2,139              | 49.0                               | 0.3 - 0.4                         | -33.0                              | 2,859              | 65.5                               | 0.1                               |
| 08/03/09 <sup>(19)</sup> | -32.5                              | 3,662              | 83.9                               | 0.0                               | -35.5                              | 2,228              | 51.0                               | 0.0                               | -33.0                              | 3,324              | 76.1                               | 0.0                               |
| 08/31/09                 | -34.0                              | 3,674              | 84.1                               | 0.0                               | -36.0                              | 2,308              | 52.8                               | 0.0                               | -33.5                              | 3,392              | 77.7                               | 0.0                               |



Table 1. System Operational Data, Vapor Recovery System, United Stellar Industries, Plainview, New York.

| Date                     | SVE - 1 Extraction Well Parameters |                    |                                    |                                   | SVE - 2 Extraction Well Parameters |                    |                                    |                                   | SVE - 3 Extraction Well Parameters |                    |                                    |                                   |
|--------------------------|------------------------------------|--------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------|------------------------------------|-----------------------------------|
|                          | Wellhead Vacuum (in.W.C.)          | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) | Wellhead Vacuum (in.W.C.)          | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) | Wellhead Vacuum (in.W.C.)          | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) |
| 09/30/09                 | -33.5                              | 3,503              | 80.2                               | 0.0                               | -35.8                              | 2,063              | 47.2                               | 0.0                               | -33.9                              | 3,144              | 72.0                               | 0.0                               |
| 12/30/09 <sup>(20)</sup> | -39.0                              | 2,867              | 65.6                               | 0.0                               | -42.0                              | 1,311              | 30.0                               | 0.0                               | -40.0                              | 2,730              | 62.5                               | 0.0                               |
| 03/25/10                 | -39.5                              | 3,302              | 75.6                               | 0.0                               | -40.0                              | 1,826              | 41.8                               | 0.0                               | -40.0                              | 2,498              | 57.2                               | 0.0                               |
| 06/16/10                 | -36.0                              | 3,961              | 90.7                               | 0.0                               | -38.0                              | 2,484              | 56.9                               | 0.0                               | -36.0                              | 3,271              | 74.9                               | 0.0                               |

See notes last page.





Table 1. System Operational Data, Vapor Recovery System, United Stellar Industries, Plainview, New York.

| Date                   | Blower Parameters         |                             | GAC 500 Parameters          |                                  |                    |                                    |                                   | Discharge Parameters         |                                   |                    |                                    |                                   |
|------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------------|--------------------|------------------------------------|-----------------------------------|------------------------------|-----------------------------------|--------------------|------------------------------------|-----------------------------------|
|                        | Influent Vacuum (in.W.C.) | Effluent Pressure (in.W.C.) | Influent Pressure (in.W.C.) | Influent Temperature (Degrees F) | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) | Discharge Pressure (in.W.C.) | Discharge Temperature (Degrees F) | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) |
| 06/8/06 <sup>(2)</sup> | --                        | --                          | --                          | --                               | --                 | --                                 | --                                | --                           | --                                | --                 | --                                 | --                                |
|                        | -52.0                     | 5.0                         | 2.0                         | --                               | --                 | --                                 | 14.0                              | --                           | --                                | --                 | --                                 | 0.0                               |
|                        | -51.0                     | 6.0                         | 2.0                         | --                               | --                 | --                                 | 10.5                              | --                           | --                                | --                 | --                                 | --                                |
| <sup>(3)</sup>         | -51.0                     | 6.0                         | 2.0                         | --                               | --                 | --                                 | 4.4                               | --                           | --                                | 3,000              | 268.2                              | --                                |
| 06/09/06               | -64.0                     | 4.0                         | 1.0                         | 115.0 <sup>(5)</sup>             | --                 | --                                 | --                                | --                           | 100.0 <sup>(5)</sup>              | 0                  | --                                 | --                                |
| 06/12/06               | -65.0                     | 4.0                         | 1.0                         | --                               | --                 | --                                 | --                                | --                           | --                                | --                 | --                                 | --                                |
| 06/16/06               | -50.0                     | 4.0                         | -- <sup>(6)</sup>           | --                               | --                 | --                                 | --                                | --                           | 120.0                             | 3,800              | 339.8                              | 0.0                               |
| 06/30/06               | -50.0                     | 8.0                         | -- <sup>(6)</sup>           | --                               | --                 | --                                 | --                                | 0.0                          | 100.0                             | 4,250              | 380.0                              | 0.0                               |
| 07/14/06               | -51.0                     | 8.0                         | 7.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 108.8                             | 1,883              | 168.4                              | 0.0                               |
| 07/28/06               | -49.8                     | 8.5                         | 7.0                         | 115.0 <sup>(5)</sup>             | --                 | --                                 | 0.0                               | 0.0                          | 107.0 <sup>(5)</sup>              | 1,530              | 136.8                              | 0.0                               |
| 08/11/06               | -49.0                     | 9.0                         | --                          | --                               | --                 | --                                 | --                                | --                           | --                                | --                 | --                                 | --                                |
| 08/25/06               | -48.5                     | 9.0                         | 7.5                         | --                               | --                 | --                                 | --                                | 0.0                          | 98.6                              | 5,204              | 465.3                              | --                                |
| 09/08/06               | -48.0                     | 9.5                         | --                          | --                               | --                 | --                                 | --                                | 0.0                          | 107.7                             | 3,130              | 279.9                              | 0.0                               |
| 10/05/06               | -48.0                     | 10.0                        | --                          | 120.0                            | 3,040              | 271.8                              | 0.0                               | 0.0                          | 97.8                              | 2,150              | 192.2                              | 0.0                               |
| 11/03/06               | -50.0                     | 10.0                        | 8.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 82.0                              | 2,950              | 263.8                              | 0.0                               |
| 12/05/06               | -50.0                     | 10.0                        | 8.0                         | 100.5                            | 5,530              | 494.5                              | 0.0                               | 0.0                          | 76.2                              | 3,290              | 294.2                              | 0.0                               |
| 04/26/07               | -49.5                     | 6.0                         | 8.0                         | 106.0                            | 3,565              | 318.8                              | --                                | 0.0                          | 85.1                              | 1,721              | 153.9                              | --                                |
| 05/29/07               | -51.0                     | 5.0                         | 8.5                         | 121.0                            | --                 | --                                 | 0.0                               | 0.0                          | 105.4                             | 3,237              | 289.4                              | 0.0                               |
| 06/27/07               | -49.0                     | 5.0                         | 8.0                         | 129.2                            | 5,627              | 503.1                              | 0.0                               | 0.0                          | 113.5                             | 2,770              | 247.7                              | 0.0                               |
| 07/26/07               | -53.0                     | 4.0                         | 7.5                         | --                               | --                 | --                                 | --                                | 0.0                          | 111.0                             | 2,577              | 230.4                              | 0.0                               |
| 09/6/07 <sup>(9)</sup> | -60.0                     | 1.5                         | 3.0                         | --                               | --                 | --                                 | --                                | 0.0                          | 103.1                             | 4,095              | 366.2                              | 0.0                               |
| 09/6/07 <sup>(9)</sup> | -48.5                     | 2.0                         | 4.0                         | --                               | --                 | --                                 | --                                | 0.0                          | --                                | --                 | --                                 | --                                |
| 09/28/07               | -48.5                     | 2.0                         | 4.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 105.8                             | 5,184              | 463.5                              | 0.0                               |



Table 1. System Operational Data, Vapor Recovery System, United Stellar Industries, Plainview, New York.

| Date                     | Blower Parameters         |                             | GAC 500 Parameters          |                                  |                    |                                    | Discharge Parameters              |                              |                                   |                    |                                    |                                   |
|--------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------------|--------------------|------------------------------------|-----------------------------------|------------------------------|-----------------------------------|--------------------|------------------------------------|-----------------------------------|
|                          | Influent Vacuum (in.W.C.) | Effluent Pressure (in.W.C.) | Influent Pressure (in.W.C.) | Influent Temperature (Degrees F) | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) | Discharge Pressure (in.W.C.) | Discharge Temperature (Degrees F) | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) |
| 10/25/07                 | -50.0                     | 2.0                         | 4.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 92.8                              | 2,321              | 207.5                              | 0.0                               |
| 12/13/07 <sup>(10)</sup> | -52.0                     | 0.5 <sup>(11)</sup>         | 8.5                         | --                               | --                 | --                                 | --                                | 0.0                          | 75.3                              | 2,023              | 180.9                              | --                                |
| 12/27/07                 | -53.0                     | 0.0                         | 8.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 83.3                              | 2,077              | 185.7                              | 0.0                               |
| 02/5/08 <sup>(12)</sup>  | -54.0                     | 0.0                         | 8.0                         | --                               | --                 | --                                 | 0.6                               | 0.0                          | 82.5                              | 1,955              | 174.8                              | 0.0                               |
| 02/26/08 <sup>(13)</sup> | -49.5                     | 0.0                         | 8.2                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 86.3                              | 1,955              | 174.8                              | 0.0                               |
| 04/3/08 <sup>(14)</sup>  | -51.0                     | 0.0                         | 8.5                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 88.7                              | 2,031              | 181.6                              | 0.0                               |
| 04/30/08                 | -50.0                     | 0.0                         | 8.5                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 98.4                              | 2,492              | 222.8                              | 0.0                               |
| 05/27/08                 | -50.0                     | 0.0                         | 8.5                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 99.5                              | 2,261              | 202.2                              | 0.0                               |
| 06/26/08                 | -48.0                     | 0.0                         | 8.5                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 104.7                             | 2,404              | 215.0                              | 0.0                               |
| 07/23/09                 | -49.5                     | 0.0                         | 8.2                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 107.6                             | 2,343              | 209.5                              | 0.0                               |
| 08/28/08                 | -49.0                     | 0.0                         | 8.0                         | --                               | --                 | --                                 | 0.1                               | 0.0                          | 107.9                             | 2,163              | 193.4                              | 0.0                               |
| 09/30/08                 | -49.0                     | 0.0                         | 9.2                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 106.5                             | 2,237              | 200.0                              | 0.0                               |
| 10/30/08 <sup>(15)</sup> | -50.0                     | 0.0                         | 9.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 88.8                              | 229                | 20.5                               | 0.0                               |
| 11/25/08 <sup>(16)</sup> | -50.0                     | 0.0                         | 4.1                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | --                                | --                 | --                                 | --                                |
| 12/31/08 <sup>(17)</sup> | --                        | --                          | --                          | --                               | --                 | --                                 | --                                | --                           | --                                | --                 | --                                 | --                                |
| 01/14/09                 | -53.5                     | 0.0                         | 9.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 88.1                              | 2,061              | 184.3                              | 0.0                               |
| 02/25/09                 | -52.0                     | 0.0                         | 9.5                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 91.5                              | 2,221              | 198.6                              | 0.0                               |
| 03/31/09                 | -52.5                     | 0.0                         | 9.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 92.4                              | 2,180              | 194.9                              | 0.0                               |
| 05/12/09 <sup>(18)</sup> | -51.5                     | 0.0                         | 9.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 96.9                              | 2,316              | 207.1                              | 0.0                               |
| 05/28/09                 | -50.0                     | 0.0                         | 9.0                         | --                               | --                 | --                                 | 1.0                               | 0.0                          | 97.1                              | 2,195              | 196.3                              | 0.1 - 0.6                         |
| 06/30/09                 | -48.8                     | 0.0                         | 9.0                         | --                               | --                 | --                                 | 0.0 - 0.2                         | 0.0                          | 109.0                             | 2,238              | 200.1                              | 0.0 - 0.1                         |
| 08/03/09 <sup>(19)</sup> | -49.0                     | 0.0                         | 9.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 118.0                             | 2,660              | 237.8                              | 0.0                               |
| 08/31/09                 | -50.0                     | 0.0                         | 9.0                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 113.5                             | 2,611              | 233.5                              | 0.0                               |



Table 1. System Operational Data, Vapor Recovery System, United Stellar Industries, Plainview, New York.

| Date                     | Blower Parameters         |                             | GAC 500 Parameters          |                                  |                    |                                    | Discharge Parameters              |                              |                                   |                    |                                    |                                   |
|--------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------------|--------------------|------------------------------------|-----------------------------------|------------------------------|-----------------------------------|--------------------|------------------------------------|-----------------------------------|
|                          | Influent Vacuum (in.W.C.) | Effluent Pressure (in.W.C.) | Influent Pressure (in.W.C.) | Influent Temperature (Degrees F) | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) | Discharge Pressure (in.W.C.) | Discharge Temperature (Degrees F) | Air Velocity (fpm) | Air Flow Rate <sup>(1)</sup> (cfm) | PID Measured Concentration (ppmv) |
| 09/30/09                 | -50.0                     | 0.0                         | 9.5                         | --                               | --                 | --                                 | 0.0                               | 0.0                          | 99.8                              | 2,400              | 214.6                              | 0.0                               |
| 12/30/09 <sup>(20)</sup> | -55.0                     | 0.0                         | NA                          | NA                               | NA                 | NA                                 | NA                                | 0.0                          | 93.0                              | 2,473              | 221.1                              | 0.0                               |
| 03/25/10                 | -56.0                     | 2.0 <sup>(21)</sup>         | NA                          | NA                               | NA                 | NA                                 | NA                                | 0.0                          | 101.8                             | 2,945              | 263.3                              | 0.0                               |
| 06/16/10                 | -53.0                     | 0.0                         | NA                          | NA                               | NA                 | NA                                 | NA                                | 0.0                          | 109.2                             | 2,932              | 262.2                              | 0.0                               |

See notes last page.



Table 1. System Operational Data, Vapor Recovery System, United Stellar Industries, Plainview, New York.

| Date                   | Induced Vacuum Measurements |                   |                   |                      |                   |                      |
|------------------------|-----------------------------|-------------------|-------------------|----------------------|-------------------|----------------------|
|                        | MP-1<br>(in.W.C.)           | MP-2<br>(in.W.C.) | MP-3<br>(in.W.C.) | MP-4<br>(in.W.C.)    | MP-5<br>(in.W.C.) | MP-6<br>(in.W.C.)    |
| 06/8/06 <sup>(2)</sup> | 0.00                        | 0.00              | 0.00              | 0.00                 | 0.00              | 0.00                 |
|                        | -0.14                       | -0.11             | -0.08             | -0.16                | -0.09             | -0.13                |
|                        | -0.11                       | -0.09             | -0.07             | -0.16                | -0.07             | -0.11                |
| <sup>(3)</sup>         | -0.13                       | -0.09             | -0.07             | -0.16                | -0.07             | -0.11                |
| 06/09/06               | -0.14                       | -0.12             | -0.08             | 0.00                 | -0.01             | -0.13                |
| 06/12/06               | --                          | --                | --                | --                   | --                | --                   |
| 06/16/06               | -0.09                       | -0.09             | -0.08             | -0.17                | -0.05             | -0.10                |
| 06/30/06               | --                          | --                | --                | --                   | --                | --                   |
| 07/14/06               | -0.10                       | -0.10             | -0.15             | -0.18                | -0.08             | -0.12                |
| 07/28/06               | -0.07                       | -0.10             | -0.09             | -0.16                | -0.07             | -0.01                |
| 08/11/06               | -0.05                       | -0.05             | -0.04             | -0.08                | -0.04             | -0.08                |
| 08/25/06               | -0.03                       | -0.04             | -0.03             | -0.07                | -0.03             | 0.00                 |
| 09/08/06               | -0.04                       | -0.04             | -0.04             | -0.08                | -0.05             | -0.07                |
| 10/05/06               | -0.05                       | -0.04             | -0.04             | -0.04 <sup>(8)</sup> | -0.05             | -0.05 <sup>(8)</sup> |
| 11/03/06               | -0.04                       | -0.05             | -0.04             | -0.09                | -0.04             | 0.00                 |
| 12/05/06               | -0.03                       | -0.04             | -0.06             | -0.03                | -0.01             | 0.00                 |
| 04/26/07               | -0.06                       | -0.14             | -0.04             | -0.02                | -0.15             | -0.10                |
| 05/29/07               | -0.02                       | -0.08             | -0.01             | 0.00                 | -0.09             | -0.05                |
| 06/27/07               | -0.02                       | -0.04             | -0.01             | 0.00                 | -0.09             | -0.07                |
| 07/26/07               | -0.02                       | -0.06             | 0.00              | 0.00                 | -0.09             | -0.05                |
| 09/6/07 <sup>(9)</sup> | -0.02                       | -0.05             | -0.01             | -0.01                | -0.07             | -0.04                |
| 09/6/07 <sup>(9)</sup> | -0.06                       | -0.15             | -0.06             | -0.01                | -0.14             | -0.10                |
| 09/28/07               | -0.04                       | -0.13             | 0.00              | 0.00                 | -0.13             | -0.10                |



Table 1. System Operational Data, Vapor Recovery System, United Stellar Industries, Plainview, New York.

| Date                     | Induced Vacuum Measurements |                   |                   |                   |                   |                   |
|--------------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                          | MP-1<br>(in.W.C.)           | MP-2<br>(in.W.C.) | MP-3<br>(in.W.C.) | MP-4<br>(in.W.C.) | MP-5<br>(in.W.C.) | MP-6<br>(in.W.C.) |
| 10/25/07                 | -0.05                       | -0.15             | -0.07             | 0.00              | -0.15             | -0.13             |
| 12/13/07 <sup>(10)</sup> | -0.06                       | -0.12             | 0.00              | 0.00              | -0.10             | -0.09             |
| 12/27/07                 | -0.07                       | -0.15             | 0.00              | 0.00              | -0.09             | -0.07             |
| 02/5/08 <sup>(12)</sup>  | -0.09                       | -0.16             | 0.00              | 0.00              | -0.09             | -0.08             |
| 02/26/08 <sup>(13)</sup> | -0.08                       | -0.12             | 0.00              | -0.03             | -0.09             | -0.08             |
| 04/3/08 <sup>(14)</sup>  | -0.04                       | -0.06             | 0.00              | 0.00              | -0.07             | -0.05             |
| 04/30/08                 | -0.03                       | -0.07             | 0.00              | 0.00              | -0.05             | -0.04             |
| 05/27/08                 | -0.07                       | -0.12             | 0.00              | -0.01             | -0.10             | -0.13             |
| 06/26/08                 | -0.03                       | -0.08             | 0.00              | -0.01             | -0.03             | -0.07             |
| 07/23/09                 | -0.03                       | -0.09             | -0.12             | -0.04             | -0.04             | -0.05             |
| 08/28/08                 | -0.05                       | -0.13             | -0.01             | -0.01             | -0.07             | -0.01             |
| 09/30/08                 | -0.05                       | -0.13             | 0.00              | -0.11             | -0.07             | -0.07             |
| 10/30/08 <sup>(15)</sup> | -0.10                       | -0.18             | -0.08             | -0.12             | -0.23             | -0.12             |
| 11/25/08 <sup>(16)</sup> | --                          | --                | --                | --                | --                | --                |
| 12/31/08 <sup>(17)</sup> | --                          | --                | --                | --                | --                | --                |
| 01/14/09                 | -0.01                       | -0.02             | 0.01              | 0.00              | -0.02             | -0.02             |
| 02/25/09                 | -0.01                       | -0.03             | 0.00              | 0.00              | -0.04             | -0.02             |
| 03/31/09                 | -0.01                       | -0.04             | 0.00              | 0.00              | -0.02             | -0.03             |
| 05/12/09 <sup>(18)</sup> | --                          | --                | --                | --                | --                | --                |
| 05/28/09                 | -0.03                       | -0.07             | -0.01             | 0.01              | -0.04             | -0.06             |
| 06/30/09                 | -0.13                       | -0.21             | 0.00              | -0.01             | -0.12             | -0.14             |
| 08/03/09 <sup>(19)</sup> | -0.03                       | -0.07             | 0.00              | 0.00              | -0.04             | -0.05             |
| 08/31/09                 | -0.04                       | -0.09             | 0.01              | 0.00              | -0.02             | -0.02             |



Table 1. System Operational Data, Vapor Recovery System, United Stellar Industries, Plainview, New York.

| Date                     | Induced Vacuum Measurements |           |           |           |           |           |
|--------------------------|-----------------------------|-----------|-----------|-----------|-----------|-----------|
|                          | MP-1                        | MP-2      | MP-3      | MP-4      | MP-5      | MP-6      |
|                          | (in.W.C.)                   | (in.W.C.) | (in.W.C.) | (in.W.C.) | (in.W.C.) | (in.W.C.) |
| 09/30/09                 | -0.06                       | -0.11     | -0.01     | -0.02     | -0.09     | -0.08     |
| 12/30/09 <sup>(20)</sup> | -0.02                       | -0.04     | 0.01      | 0.00      | -0.03     | -0.04     |
| 03/25/10                 | -0.04                       | -0.05     | -0.03     | -0.01     | -0.06     | -0.07     |
| 06/16/10                 | -0.03                       | -0.05     | -0.01     | -0.01     | 0.00      | -0.04     |

See notes last page.



Table 1. System Operational Data, Vapor Recovery System, United Stellar Industries, Plainview, New York.

**Notes:**

1. Air flow rate calculated by multiplying the measured air velocity in feet per minute by the cross sectional area of the pipe.
  2. The Soil Vapor Extraction System baseline reading was taken at 1:45 PM on June 8, 2006.
  3. The system was started at 2:30 PM on June 8, 2006. The first reading was taken at 15 minutes after start-up.
  4. SVE-3 was valved off on June 9, 2006 after a leak was discovered in well head.
  5. Temperature taken using a handheld infra red thermometer.
  6. GAC 500 was temporarily removed until a replacement vessel arrived.
  7. The leak at the SVE-3 well was sealed and the well was brought on line on June 16, 2006.
  8. Readings taken at the wellhead.
  9. Following the September 6, 2007 monthly compliance sampling event, the system was shut down and the air filter on the influent blower line was replaced. System parameters were recorded prior to and after the filter replacement.
  10. Samples collected during the November 13, 2007 monthly monitoring event arrived at the laboratory flat. November 2007 monthly compliance sampling was re-conducted on December 13, 2007.
  11. Gauge stopped working during the November 2007 sampling event.
  12. Samples collected on January 31, 2008 were delivered to the laboratory outside of the recommended holding time. January 2008 monthly compliance sampling was re-conducted on February 5, 2008.
  13. Air flow rates were not recorded during the February 26, 2008 monthly compliance sampling event due to lack of a working anemometer. Air flow readings shown were recorded on February 5, 2008.
  14. Sample SVE-2 collected on March 26, 2008 arrived at the laboratory flat. March 2008 monthly compliance sampling was re-conducted on April 3, 2008.
  15. Air flow readings recorded during the October 2008 sampling event were recorded using a faulty anemometer. These readings were not accounted for in associated calculations.
  16. Effluent air flow readings and induced vacuum readings were not recorded during the November 2008 operational period due to faulty equipment.
  17. Parameters readings were not collected during the December 2008 operational period as a result of the system being intermittently offline due to water accumulation in the system knock-out tank.
  18. The April 2009 monthly compliance sampling event was completed on May 12, 2009.
  19. The July 2009 monthly compliance sampling event was completed on August 3, 2009.
  20. Based on September 22, 2009 New York State Department of Environmental Protection (NYSDEC) approval, the compliance monitoring frequency was decreased from monthly to quarterly, beginning with the fourth quarter of 2009 (October 1 through December 31, 2009). Additionally, vapor phase granular activated carbon air treatment was removed from system operation on December 3, 2009.
  21. Pressure gauge replaced during the March 25, 2010 monitoring event.
- in. W.C. Inches of water column  
 fpm Feet per minute  
 cfm Cubic feet per minute  
 ppmv Parts per million by volume  
 Degree F Degrees Fahrenheit  
 -- Not measured  
 NA Not applicable

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID: SVE-1 <sup>(3)</sup><br>Date: 6/16/2006 | SVE-1<br>6/30/2006 | SVE-1<br>7/14/2006 | SVE-1<br>7/28/2006 | SVE-1<br>8/11/2006 | SVE-1<br>8/25/2006 | SVE-1<br>9/8/2006 | SVE-1<br>10/5/2006 | SVE-1<br>11/3/2006 | SVE-1<br>12/5/2006 | SVE-1<br>4/26/2007 |
|-----------------------------------------------|----------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| Freon 12                                      | ND J                                               | ND                 | ND                 | ND                 | 29                 | ND                 | ND                | 25                 | 29                 | 28                 | ND                 |
| Freon 113                                     | 280 J                                              | 410                | 61                 | 70                 | 100                | 44                 | 52                | 67                 | 51                 | 45                 | ND                 |
| Chloroform                                    | 51 J                                               | 160                | ND                 | ND                 | 33                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,1,1-Trichloroethane                         | 150 J                                              | 1,100              | 220                | 210                | 340                | 87                 | 98                | 110                | 76                 | 53                 | 27                 |
| Trichloroethene                               | 5,200 J                                            | 5,900              | 840                | 1,400              | 3,200              | 980                | 1,700             | 3,000              | 2,300              | 1,400              | 650                |
| Tetrachloroethene                             | 210 J                                              | 220                | ND                 | 46                 | 140                | ND                 | 60                | 130                | 110                | ND                 | ND                 |
| cis-1,2-Dichloroethene                        | 140 J                                              | 160                | 42                 | 80                 | 180                | 71                 | 90                | 130                | 110                | 97                 | 42                 |
| 1,1-Dichloroethane                            | ND J                                               | ND                 | ND                 | 20                 | 32                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Toluene                                       | 32 J                                               | ND                 | ND                 | ND                 | ND                 | 24                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 2-Propanol                                    | 200 J                                              | 130                | ND                 | ND                 | 14                 | ND                 | 100               | 45                 | 16                 | 12                 | ND                 |
| Methylene Chloride                            | ND J                                               | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Carbon Disulfide                              | ND J                                               | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Hexane                                        | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 2-Butanone                                    | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Ethanol                                       | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Acetone                                       | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Benzene                                       | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,2-Dichloropropane                           | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Tetrahydrofuran                               | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Ethyl Benzene                                 | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| m,p-Xylene                                    | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| o-Xylene                                      | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 4-Ethyltoluene                                | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Heptane                                       | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Cyclohexane                                   | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| <b>Total VOCs <sup>(2)</sup></b>              | <b>6,263</b>                                       | <b>8,080</b>       | <b>1,163</b>       | <b>1,826</b>       | <b>4,068</b>       | <b>1,206</b>       | <b>2,100</b>      | <b>3,507</b>       | <b>2,692</b>       | <b>1,635</b>       | <b>719</b>         |

See notes last page.



Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | SVE-1<br>5/29/2007 | SVE-1<br>6/27/2007 | SVE-1<br>7/26/2007 | SVE-1 <sup>(4)</sup><br>9/6/2007 | SVE-1<br>9/28/2007 | SVE-1<br>10/25/2007 | SVE-1 <sup>(5)</sup><br>12/13/2007 | SVE-1<br>12/27/2007 | SVE-1 <sup>(6)</sup><br>2/5/2008 | SVE-1<br>2/26/2008 | SVE-1 <sup>(7)</sup><br>4/3/2008 |
|-----------------------------------------------|---------------------|--------------------|--------------------|--------------------|----------------------------------|--------------------|---------------------|------------------------------------|---------------------|----------------------------------|--------------------|----------------------------------|
| Freon 12                                      |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | 33                                 | 53                  | 33                               | 28                 | ND                               |
| Freon 113                                     |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Chloroform                                    |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 1,1,1-Trichloroethane                         |                     | 34                 | 34                 | 48                 | 28                               | ND                 | ND                  | 42                                 | 59                  | 45                               | 29                 | ND                               |
| Trichloroethene                               |                     | 1,300              | 1,300              | 1,700              | 900                              | 1,300              | 1,200               | 1,200                              | 2,500               | 2,000                            | 1,400              | 700                              |
| Tetrachloroethene                             |                     | 38                 | 51                 | 68                 | ND                               | ND                 | ND                  | 36                                 | 100                 | 75                               | 59                 | ND                               |
| cis-1,2-Dichloroethene                        |                     | 71                 | 70                 | 86                 | 52                               | 51                 | 59                  | 76                                 | 120                 | 110                              | 84                 | 45                               |
| 1,1-Dichloroethane                            |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Toluene                                       |                     | ND                 | ND                 | ND                 | 30                               | ND                 | ND                  | 30                                 | 71                  | ND                               | 40                 | 230                              |
| 2-Propanol                                    |                     | ND                 | 36                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Methylene Chloride                            |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | 34                  | ND                               | ND                 | 17                               |
| Carbon Disulfide                              |                     | ND                 | ND                 | ND                 | 28                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Hexane                                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 64                               |
| 2-Butanone                                    |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | 30                  | ND                               | ND                 | 22                               |
| Ethanol                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 62                               |
| Acetone                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 60                               |
| Benzene                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 25                               |
| 1,2-Dichloropropane                           |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| o-Xylene                                      |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Heptane                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Cyclohexane                                   |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| <b>Total VOCs<sup>(2)</sup></b>               |                     | <b>1,443</b>       | <b>1,491</b>       | <b>1,902</b>       | <b>1,038</b>                     | <b>1,351</b>       | <b>1,259</b>        | <b>1,417</b>                       | <b>2,967</b>        | <b>2,263</b>                     | <b>1,640</b>       | <b>1,225</b>                     |

See notes last page.

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | SVE-1<br>4/30/2008 | SVE-1<br>5/27/2008 | SVE-1<br>6/26/2008 | SVE-1<br>7/23/2008 | SVE-1<br>8/28/2008 | SVE-1<br>9/30/2008 | SVE-1<br>10/30/2008 | SVE-1 <sup>(8)</sup><br>11/25/2008 | SVE-1 <sup>(9)</sup><br>12/31/2008 | SVE-1<br>1/14/2009 | SVE-1<br>2/25/2009 |
|-----------------------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|------------------------------------|------------------------------------|--------------------|--------------------|
| Freon 12                                      |                     | 35                 | 43                 | 40                 | 36                 | 58                 | 40                 | 28                  | --                                 | --                                 | ND                 | ND                 |
| Freon 113                                     |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| Chloroform                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| 1,1,1-Trichloroethane                         |                     | 36                 | 42                 | 29                 | 33                 | 44                 | 28                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| Trichloroethene                               |                     | 2,000              | 2,600              | 2,200              | 1,900              | 2,500              | 1,600              | 840                 | --                                 | --                                 | 880                | 500                |
| Tetrachloroethene                             |                     | 66                 | 100                | 98                 | 91                 | 120                | 72                 | ND                  | --                                 | --                                 | 36                 | ND                 |
| cis-1,2-Dichloroethene                        |                     | 120                | 140                | 110                | 100                | 140                | 87                 | 56                  | --                                 | --                                 | 48                 | 31                 |
| 1,1-Dichloroethane                            |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| Toluene                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 58                  | --                                 | --                                 | ND                 | ND                 |
| 2-Propanol                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| Methylene Chloride                            |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| Carbon Disulfide                              |                     | ND                 | 16                 | ND                 | 19                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| Hexane                                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| 2-Butanone                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 16                  | --                                 | --                                 | ND                 | ND                 |
| Ethanol                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| Acetone                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| Benzene                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 63                  | --                                 | --                                 | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 94                  | --                                 | --                                 | ND                 | ND                 |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 32                  | --                                 | --                                 | ND                 | ND                 |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 140                 | --                                 | --                                 | ND                 | ND                 |
| o-Xylene                                      |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 78                  | --                                 | --                                 | ND                 | ND                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 79                  | --                                 | --                                 | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 57                  | --                                 | --                                 | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 94                  | --                                 | --                                 | ND                 | ND                 |
| Heptane                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| Cyclohexane                                   |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | --                                 | --                                 | ND                 | ND                 |
| <b>Total VOCs<sup>(2)</sup></b>               |                     | <b>2,257</b>       | <b>2,941</b>       | <b>2,477</b>       | <b>2,179</b>       | <b>2,862</b>       | <b>1,827</b>       | <b>1,635</b>        | <b>--</b>                          | <b>--</b>                          | <b>964</b>         | <b>531</b>         |

See notes last page.

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | SVE-1<br>3/31/2009 | SVE-1 <sup>(10)</sup><br>5/12/2009 | SVE-1<br>5/28/2009 | SVE-1<br>6/30/2009 | SVE-1 <sup>(11)</sup><br>8/3/2009 | SVE-1<br>8/31/2009 | SVE-1 <sup>(12)</sup><br>9/30/2009 | SVE-1<br>12/30/2009 | SVE-1<br>3/25/2010 | SVE-1<br>6/16/2010 |
|-----------------------------------------------|---------------------|--------------------|------------------------------------|--------------------|--------------------|-----------------------------------|--------------------|------------------------------------|---------------------|--------------------|--------------------|
| Freon 12                                      |                     | ND                 | ND                                 | 29                 | 36                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Freon 113                                     |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Chloroform                                    |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,1,1-Trichloroethane                         |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Trichloroethene                               |                     | 740                | 720                                | 1,500              | 1,100              | 310                               | 150                | 130                                | 83                  | 81                 | ND                 |
| Tetrachloroethene                             |                     | 38                 | ND                                 | 70                 | 36                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| cis-1,2-Dichloroethene                        |                     | 44                 | 46                                 | 92                 | 70                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,1-Dichloroethane                            |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Toluene                                       |                     | ND                 | ND                                 | ND                 | 68                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2-Propanol                                    |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Methylene Chloride                            |                     | ND                 | ND                                 | 23                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Carbon Disulfide                              |                     | ND                 | ND                                 | ND                 | 23                 | 30                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Hexane                                        |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2-Butanone                                    |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Ethanol                                       |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Acetone                                       |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Benzene                                       |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Tetrahydrofuran                               |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Ethyl Benzene                                 |                     | ND                 | ND                                 | ND                 | 42                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| m,p-Xylene                                    |                     | ND                 | ND                                 | ND                 | 180                | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| o-Xylene                                      |                     | ND                 | ND                                 | ND                 | 69                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                                 | ND                 | 74                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                                 | ND                 | 26                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                                 | ND                 | 74                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Heptane                                       |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Cyclohexane                                   |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| <b>Total VOCs<sup>(2)</sup></b>               |                     | <b>822</b>         | <b>766</b>                         | <b>1,714</b>       | <b>1,798</b>       | <b>340</b>                        | <b>150</b>         | <b>130</b>                         | <b>83</b>           | <b>81</b>          | <b>ND</b>          |

See notes last page.

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID: SVE-2 <sup>(3)</sup><br>Date: 6/16/2006 | SVE-2<br>6/30/2006 | SVE-2<br>7/14/2006 | SVE-2<br>7/28/2006 | SVE-2<br>8/11/2006 | SVE-2<br>8/25/2006 | SVE-2<br>9/8/2006 | SVE-2<br>10/5/2006 | SVE-2<br>11/3/2006 | SVE-2<br>12/5/2006 | SVE-2<br>4/26/2007 |
|-----------------------------------------------|----------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| Freon 12                                      | ND J                                               | ND                 | ND                 | ND                 | ND                 | 170                | 280               | ND                 | ND                 | ND                 | ND                 |
| Freon 113                                     | 580 J                                              | 580                | 190                | 180                | 310                | ND                 | ND                | 250                | 240                | 210                | 110                |
| Chloroform                                    | ND J                                               | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,1,1-Trichloroethane                         | 64 J                                               | 52                 | ND                 | ND                 | 46                 | ND                 | 39                | 35                 | 36                 | ND                 | ND                 |
| Trichloroethene                               | 12,000 J                                           | 16,000             | 3,300              | 3,200              | 8,100              | 3,400              | 6,700             | 5,500              | 4,200              | 2,300              | 1,400              |
| Tetrachloroethene                             | 180 J                                              | 190                | 46                 | 39                 | 140                | 45                 | 120               | 130                | 130                | 53                 | ND                 |
| cis-1,2-Dichloroethene                        | 320 J                                              | 290                | 88                 | 84                 | 160                | 82                 | 140               | 100                | 89                 | 65                 | 38                 |
| 1,1-Dichloroethane                            | ND J                                               | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Toluene                                       | 30 J                                               | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | 21                 | ND                 |
| 2-Propanol                                    | 150 J                                              | 130                | ND                 | ND                 | 27                 | 12                 | 120               | 41                 | 16                 | 13                 | ND                 |
| Methylene Chloride                            | ND J                                               | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Carbon Disulfide                              | ND J                                               | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Hexane                                        | ND J                                               | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 2-Butanone                                    | ND J                                               | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Ethanol                                       | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Acetone                                       | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Benzene                                       | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,2-Dichloropropane                           | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Tetrahydrofuran                               | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Ethyl Benzene                                 | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| m,p-Xylene                                    | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| o-Xylene                                      | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 4-Ethyltoluene                                | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Heptane                                       | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Cyclohexane                                   | ND                                                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| <b>Total VOCs <sup>(2)</sup></b>              | <b>13,324 J</b>                                    | <b>17,242</b>      | <b>3,624</b>       | <b>3,503</b>       | <b>8,783</b>       | <b>3,709</b>       | <b>7,399</b>      | <b>6,056</b>       | <b>4,711</b>       | <b>2,662</b>       | <b>1,548</b>       |

See notes last page.

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | SVE-2<br>5/29/2007 | SVE-2<br>6/27/2007 | SVE-2<br>7/26/2007 | SVE-2 <sup>(4)</sup><br>9/6/2007 | SVE-2<br>9/28/2007 | SVE-2<br>10/25/2007 | SVE-2 <sup>(5)</sup><br>12/13/2007 | SVE-2<br>12/27/2007 | SVE-2 <sup>(6)</sup><br>2/5/2008 | SVE-2<br>2/26/2008 | SVE-2 <sup>(7)</sup><br>4/3/2008 |
|-----------------------------------------------|---------------------|--------------------|--------------------|--------------------|----------------------------------|--------------------|---------------------|------------------------------------|---------------------|----------------------------------|--------------------|----------------------------------|
| Freon 12                                      |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Freon 113                                     |                     | 190                | ND                 | 210                | 170                              | ND                 | ND                  | 76                                 | 92                  | 94                               | 97                 | ND                               |
| Chloroform                                    |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 1,1,1-Trichloroethane                         |                     | 29                 | ND                 | 40                 | 29                               | ND                 | ND                  | ND                                 | 29                  | ND                               | ND                 | ND                               |
| Trichloroethene                               |                     | 4,300              | 240                | 3,700              | 2,600                            | 3,400              | 2,100               | 1,600                              | 3,400               | 2,100                            | 2,000              | 780                              |
| Tetrachloroethene                             |                     | 110                | ND                 | 130                | 58                               | ND                 | ND                  | 73                                 | 210                 | 120                              | 110                | ND                               |
| cis-1,2-Dichloroethene                        |                     | 300                | ND                 | 84                 | 63                               | ND                 | ND                  | 39                                 | 54                  | 43                               | 38                 | ND                               |
| 1,1-Dichloroethane                            |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Toluene                                       |                     | ND                 | 95                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | 24                               | ND                 | 210                              |
| 2-Propanol                                    |                     | ND                 | 170                | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 51                               |
| Methylene Chloride                            |                     | ND                 | 50                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 18                               |
| Carbon Disulfide                              |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Hexane                                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 82                               |
| 2-Butanone                                    |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 18                               |
| Ethanol                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 59                               |
| Acetone                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 60                               |
| Benzene                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 24                               |
| 1,2-Dichloropropane                           |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| o-Xylene                                      |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Heptane                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Cyclohexane                                   |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| <b>Total VOCs<sup>(2)</sup></b>               |                     | <b>4,929</b>       | <b>555</b>         | <b>4,164</b>       | <b>2,920</b>                     | <b>3,400</b>       | <b>2,100</b>        | <b>1,788</b>                       | <b>3,785</b>        | <b>2,381</b>                     | <b>2,245</b>       | <b>1,302</b>                     |

See notes last page.

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | SVE-2<br>4/30/2008 | SVE-2<br>5/27/2008 | SVE-2<br>6/26/2008 | SVE-2<br>7/23/2008 | SVE-2<br>8/28/2008 | SVE-2<br>9/30/2008 | SVE-2<br>10/30/2008 | SVE-2<br>11/25/2008 | SVE-2 <sup>(9)</sup><br>12/31/2008 | SVE-2<br>1/14/2009 | SVE-2<br>2/25/2009 |
|-----------------------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|------------------------------------|--------------------|--------------------|
| Freon 12                                      |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Freon 113                                     |                     | 100                | 100                | 73                 | 80                 | 95                 | 63                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Chloroform                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 1,1,1-Trichloroethane                         |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Trichloroethene                               |                     | 2,500              | 3,300              | 2,600              | 2,400              | 2,900              | 1,800              | 310                 | 840                 | --                                 | 1,200              | 1,200              |
| Tetrachloroethene                             |                     | 89                 | 110                | 110                | 100                | 130                | 93                 | ND                  | 45                  | --                                 | 66                 | 51                 |
| cis-1,2-Dichloroethene                        |                     | 53                 | 60                 | 51                 | 48                 | 63                 | 42                 | ND                  | ND                  | --                                 | 25                 | 21                 |
| 1,1-Dichloroethane                            |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Toluene                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 370                 | ND                  | --                                 | ND                 | ND                 |
| 2-Propanol                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Methylene Chloride                            |                     | 28                 | ND                 | ND                 | ND                 | ND                 | ND                 | 23                  | ND                  | --                                 | ND                 | ND                 |
| Carbon Disulfide                              |                     | ND                 | 18                 | ND                 | 20                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Hexane                                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 2-Butanone                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Ethanol                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Acetone                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | 66                 | ND                  | 68                  | --                                 | ND                 | ND                 |
| Benzene                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| o-Xylene                                      |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Heptane                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | 27                  | ND                  | --                                 | ND                 | ND                 |
| Cyclohexane                                   |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| <b>Total VOCs<sup>(2)</sup></b>               |                     | <b>2,770</b>       | <b>3,588</b>       | <b>2,834</b>       | <b>2,648</b>       | <b>3,188</b>       | <b>2,064</b>       | <b>730</b>          | <b>953</b>          | <b>--</b>                          | <b>1,291</b>       | <b>1,272</b>       |

See notes last page.

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | SVE-2<br>3/31/2009 | SVE-2 <sup>(10)</sup><br>5/12/2009 | SVE-2<br>5/28/2009 | SVE-2<br>6/30/2009 | SVE-2 <sup>(11)</sup><br>8/3/2009 | SVE-2<br>8/31/2009 | SVE-2 <sup>(12)</sup><br>9/30/2009 | SVE-2<br>12/30/2009 | SVE-2<br>3/25/2010 | SVE-2<br>6/16/2010 |
|-----------------------------------------------|---------------------|--------------------|------------------------------------|--------------------|--------------------|-----------------------------------|--------------------|------------------------------------|---------------------|--------------------|--------------------|
| Freon 12                                      |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Freon 113                                     |                     | ND                 | ND                                 | 59                 | 68                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Chloroform                                    |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,1,1-Trichloroethane                         |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Trichloroethene                               |                     | 1,600              | 1,800                              | 2,700              | 1,700              | 480                               | 240                | 200                                | 160                 | 160                | 200                |
| Tetrachloroethene                             |                     | 58                 | 59                                 | 100                | 49                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| cis-1,2-Dichloroethene                        |                     | 32                 | 35                                 | 59                 | 41                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,1-Dichloroethane                            |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Toluene                                       |                     | ND                 | ND                                 | ND                 | 20                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2-Propanol                                    |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Methylene Chloride                            |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Carbon Disulfide                              |                     | ND                 | ND                                 | ND                 | 22                 | 28                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Hexane                                        |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2-Butanone                                    |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Ethanol                                       |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Acetone                                       |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Benzene                                       |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Tetrahydrofuran                               |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Ethyl Benzene                                 |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| m,p-Xylene                                    |                     | ND                 | ND                                 | ND                 | 61                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| o-Xylene                                      |                     | ND                 | ND                                 | ND                 | 23                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                                 | ND                 | 32                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                                 | ND                 | 32                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Heptane                                       |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Cyclohexane                                   |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| <b>Total VOCs <sup>(2)</sup></b>              |                     | <b>1,690</b>       | <b>1,894</b>                       | <b>2,918</b>       | <b>2,048</b>       | <b>508</b>                        | <b>240</b>         | <b>200</b>                         | <b>160</b>          | <b>160</b>         | <b>200</b>         |

See notes last page.

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | SVE-3 <sup>(3)</sup><br>6/16/2006 | SVE-3<br>6/30/2006 | SVE-3<br>7/14/2006 | SVE-3<br>7/28/2006 | SVE-3<br>8/11/2006 | SVE-3<br>8/25/2006 | SVE-3<br>9/8/2006 | SVE-3<br>10/5/2006 | SVE-3<br>11/3/2006 | SVE-3<br>12/5/2006 | SVE-3<br>4/26/2007 |
|-----------------------------------------------|---------------------|-----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| Freon 12                                      | ND J                | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Freon 113                                     | 130 J               | 320                               | 110                | 73                 | 79                 | 93                 | 110                | 91                | 110                | 100                | 70                 |                    |
| Chloroform                                    | ND J                | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,1,1-Trichloroethane                         | ND J                | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Trichloroethene                               | 600 J               | 1,000                             | 290                | 180                | 310                | 270                | 480                | 450               | 480                | 350                | 210                |                    |
| Tetrachloroethene                             | ND J                | 49                                | ND                 | ND                 | ND                 | ND                 | 34                 | ND                | 37                 | ND                 | ND                 | ND                 |
| cis-1,2-Dichloroethene                        | 27 J                | 150                               | 71                 | 38                 | 60                 | 76                 | 140                | 170               | 240                | 240                | 180                |                    |
| 1,1-Dichloroethane                            | ND J                | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Toluene                                       | ND J                | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 2-Propanol                                    | 160 J               | 150                               | ND                 | 26                 | ND                 | ND                 | 72                 | 32                | 14                 | 16                 | ND                 |                    |
| Methylene Chloride                            | ND J                | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Carbon Disulfide                              | ND J                | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Hexane                                        | ND J                | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 2-Butanone                                    | ND J                | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Ethanol                                       | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Acetone                                       | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Benzene                                       | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,2-Dichloropropane                           | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Tetrahydrofuran                               | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Ethyl Benzene                                 | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| m,p-Xylene                                    | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| o-Xylene                                      | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 4-Ethyltoluene                                | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Heptane                                       | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| Cyclohexane                                   | ND                  | ND                                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 |
| <b>Total VOCs<sup>(2)</sup></b>               | <b>917 J</b>        | <b>1,669</b>                      | <b>471</b>         | <b>317</b>         | <b>449</b>         | <b>439</b>         | <b>836</b>         | <b>743</b>        | <b>881</b>         | <b>706</b>         | <b>460</b>         |                    |

See notes last page.



Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | SVE-3<br>5/29/2007 | SVE-3<br>6/27/2007 | SVE-3<br>7/26/2007 | SVE-3 <sup>(4)</sup><br>9/6/2007 | SVE-3<br>9/28/2007 | SVE-3<br>10/25/2007 | SVE-3 <sup>(5)</sup><br>12/13/2007 | SVE-3<br>12/27/2007 | SVE-3 <sup>(6)</sup><br>2/5/2008 | SVE-3<br>2/26/2008 | SVE-3 <sup>(7)</sup><br>4/3/2008 |
|-----------------------------------------------|---------------------|--------------------|--------------------|--------------------|----------------------------------|--------------------|---------------------|------------------------------------|---------------------|----------------------------------|--------------------|----------------------------------|
| Freon 12                                      |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Freon 113                                     |                     | 110                | 120                | 160                | 110                              | 100                | 92                  | 44                                 | 48                  | 44                               | ND                 | ND                               |
| Chloroform                                    |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 1,1,1-Trichloroethane                         |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Trichloroethene                               |                     | 340                | 340                | 460                | 310                              | 340                | 260                 | 130                                | 170                 | 92                               | 71                 | 55                               |
| Tetrachloroethene                             |                     | 34                 | 42                 | 69                 | ND                               | 55                 | ND                  | ND                                 | 39                  | ND                               | ND                 | ND                               |
| cis-1,2-Dichloroethene                        |                     | 300                | 300                | 420                | 230                              | 250                | 270                 | 140                                | 170                 | 110                              | 92                 | 73                               |
| 1,1-Dichloroethane                            |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Toluene                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | 27                 | 96                               |
| 2-Propanol                                    |                     | ND                 | 37                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 49                               |
| Methylene Chloride                            |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | 19                                 | ND                  | ND                               | ND                 | ND                               |
| Carbon Disulfide                              |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Hexane                                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | 23                                 | ND                  | ND                               | ND                 | 41                               |
| 2-Butanone                                    |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Ethanol                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 44                               |
| Acetone                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Benzene                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 1,2-Dichloropropane                           |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| o-Xylene                                      |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Heptane                                       |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| Cyclohexane                                   |                     | ND                 | ND                 | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               |
| <b>Total VOCs<sup>(2)</sup></b>               |                     | <b>784</b>         | <b>839</b>         | <b>1,109</b>       | <b>650</b>                       | <b>745</b>         | <b>622</b>          | <b>356</b>                         | <b>427</b>          | <b>246</b>                       | <b>190</b>         | <b>358</b>                       |

See notes last page.

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | SVE-3<br>4/30/2008 | SVE-3<br>5/27/2008 | SVE-3<br>6/26/2008 | SVE-3<br>7/23/2008 | SVE-3<br>8/28/2008 | SVE-3<br>9/30/2008 | SVE-3<br>10/30/2008 | SVE-3<br>11/25/2008 | SVE-3 <sup>(9)</sup><br>12/31/2008 | SVE-3<br>1/14/2009 | SVE-3<br>2/25/2009 |
|-----------------------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|------------------------------------|--------------------|--------------------|
| Freon 12                                      |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Freon 113                                     |                     | ND                 | ND                 | ND                 | ND                 | 50                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Chloroform                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 1,1,1-Trichloroethane                         |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Trichloroethene                               |                     | 88                 | 110                | 100                | 120                | 160                | 160                | 100                 | 71                  | --                                 | 100                | 39                 |
| Tetrachloroethene                             |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| cis-1,2-Dichloroethene                        |                     | 93                 | 140                | 130                | 140                | 330                | 300                | 110                 | 190                 | --                                 | 150                | 93                 |
| 1,1-Dichloroethane                            |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Toluene                                       |                     | ND                 | ND                 | ND                 | 96                 | ND                 | ND                 | 210                 | ND                  | --                                 | ND                 | ND                 |
| 2-Propanol                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Methylene Chloride                            |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Carbon Disulfide                              |                     | ND                 | 16                 | ND                 | 26                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Hexane                                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 2-Butanone                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Ethanol                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Acetone                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Benzene                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                 | ND                 | 38                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| o-Xylene                                      |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Heptane                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| Cyclohexane                                   |                     | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 |
| <b>Total VOCs<sup>(2)</sup></b>               |                     | <b>181</b>         | <b>266</b>         | <b>230</b>         | <b>420</b>         | <b>540</b>         | <b>460</b>         | <b>420</b>          | <b>261</b>          | <b>--</b>                          | <b>250</b>         | <b>132</b>         |

See notes last page.

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | SVE-3<br>3/31/2009 | SVE-3 <sup>(10)</sup><br>5/12/2009 | SVE-3<br>5/28/2009 | SVE-3<br>6/30/2009 | SVE-3 <sup>(11)</sup><br>8/3/2009 | SVE-3<br>8/31/2009 | SVE-3 <sup>(12)</sup><br>9/30/2009 | SVE-3<br>12/30/2009 | SVE-3<br>3/25/2010 | SVE-3<br>6/16/2010 |
|-----------------------------------------------|---------------------|--------------------|------------------------------------|--------------------|--------------------|-----------------------------------|--------------------|------------------------------------|---------------------|--------------------|--------------------|
| Freon 12                                      |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Freon 113                                     |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Chloroform                                    |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,1,1-Trichloroethane                         |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Trichloroethene                               |                     | 63                 | 56                                 | 35                 | 76                 | 28                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Tetrachloroethene                             |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| cis-1,2-Dichloroethene                        |                     | 110                | 110                                | 78                 | 140                | 40                                | ND                 | 28                                 | 27                  | 21                 | ND                 |
| 1,1-Dichloroethane                            |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Toluene                                       |                     | ND                 | ND                                 | 120                | 19                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2-Propanol                                    |                     | ND                 | ND                                 | 90                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Methylene Chloride                            |                     | ND                 | ND                                 | 23                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Carbon Disulfide                              |                     | ND                 | ND                                 | ND                 | 29                 | 37                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Hexane                                        |                     | ND                 | ND                                 | 75                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2-Butanone                                    |                     | ND                 | ND                                 | 21                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Ethanol                                       |                     | ND                 | ND                                 | 49                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Acetone                                       |                     | ND                 | ND                                 | 130 J              | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Benzene                                       |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Tetrahydrofuran                               |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Ethyl Benzene                                 |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| m,p-Xylene                                    |                     | ND                 | ND                                 | 24                 | 52                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| o-Xylene                                      |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                                 | ND                 | 26                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Heptane                                       |                     | ND                 | ND                                 | ND                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Cyclohexane                                   |                     | ND                 | ND                                 | 46                 | ND                 | ND                                | ND                 | ND                                 | ND                  | ND                 | ND                 |
| <b>Total VOCs<sup>(2)</sup></b>               |                     | <b>173</b>         | <b>166</b>                         | <b>691</b>         | <b>342</b>         | <b>105</b>                        | <b>ND</b>          | <b>28</b>                          | <b>27</b>           | <b>21</b>          | <b>ND</b>          |

See notes last page.

Table 2. Summary of Extraction Well Vapor Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York.<sup>(1)</sup>

**Notes:**

1. Samples collected by ARCADIS personnel on the dates shown and submitted to Air Toxics Laboratories in Folsom, CA for volatile organic compound (VOC) analyses using Direct Inject Method TO-14. Only VOCs detected at or above their respective laboratory quantification limits at any sample location during the project are presented in this table.
2. "Total VOCs" represents the sum of individual concentrations of compounds listed in this table.
3. Due to laboratory error, samples SVE-1, SVE-2, and SVE-3 were analyzed outside of the recommended hold time. Although subsequent laboratory testing indicating the results are representative, these results are nonetheless considered estimated, and are noted with a J qualifier.
4. The August 2007 monthly compliance sampling event was completed on September 6, 2007.
5. Samples SVE-1 and EFF-1 collected on November 29, 2007 arrived at the laboratory flat. November 2007 monthly compliance sampling was re-conducted on December 13, 2007.
6. Samples collected on January 31, 2008 were delivered to the laboratory outside of the recommended holding time. January 2008 monthly compliance sampling was re-conducted on February 5, 2008.
7. Sample SVE-2 collected on March 26, 2008 arrived at the laboratory flat. March 2008 monthly compliance sampling was re-conducted on April 3, 2008.
8. Sample SVE-1 was not collected during the November 2008 operational period due to a lack of a sufficient quantity of sample bags.
9. Samples were not collected during the December 2008 operational period as a result of the system being intermittently offline due to water accumulation in the system knock-out tank.
10. The April 2009 monthly compliance sampling was completed on May 12, 2009.
11. The July 2009 monthly compliance sampling was completed on August 3, 2009.
12. Based on September 22, 2009 New York State Department of Conservation (NYSDC) approval, the frequency of compliance monitoring was decreased from monthly to quarterly beginning with the fourth quarter 2009 (October 1 through December 31, 2009).

ug/m<sup>3</sup> Micrograms per cubic meter

ND Analyte not detected at, or above its laboratory quantification limit

J The compound was positively identified, however, the associated numerical value is an estimated concentration only

-- Sample not collected

Table 3. Summary of Carbon Effluent Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York. <sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | EFF-1<br>6/30/2006 | EFF-1<br>7/28/2006 | EFF-1<br>8/11/2006 | EFF-1<br>8/25/2006 | EFF-1<br>9/8/2006 | EFF-1<br>10/5/2006 | EFF-1<br>11/3/2006 | EFF-1<br>12/5/2006 | EFF-1<br>4/26/2007 | EFF-1<br>5/29/2007 | EFF-1<br>6/27/2007 |
|-----------------------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Freon 12                                      |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Freon 113                                     |                     | ND                 | ND                 | ND                 | ND                 | 49                | 72                 | 61                 | 64                 | 74                 | ND                 | ND                 |
| 1,1,1-Trichloroethane                         |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | 28                 | ND                 | ND                 | ND                 | ND                 |
| Trichloroethene                               |                     | 140                | 54                 | ND                 | ND                 | ND                | 120                | 82                 | 160                | 200                | 390                | 130                |
| cis-1,2-Dichloroethene                        |                     | ND                 | 21                 | 79                 | 110                | 140               | 140                | 98                 | 93                 | 68                 | 84                 | 26                 |
| Toluene                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | 77                 | 60                 |
| 2-Propanol                                    |                     | 170                | 58                 | 27                 | ND                 | 70                | 46                 | 12                 | 20                 | 61                 | 39                 | 81                 |
| Benzene                                       |                     | 18                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | 54                 | ND                 | ND                 |
| MTBE                                          |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 1,1 Dichloroethene                            |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Methylene Chloride                            |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | 18                 | 85                 |
| Ethanol                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 2-Butanone                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Carbon Disulfide                              |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Acetone                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| o-Xylene                                      |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| <b>Total VOCs <sup>(2)</sup></b>              |                     | <b>328</b>         | <b>133</b>         | <b>106</b>         | <b>110</b>         | <b>259</b>        | <b>378</b>         | <b>281</b>         | <b>337</b>         | <b>457</b>         | <b>608</b>         | <b>382</b>         |

See notes last page.

Table 3. Summary of Carbon Effluent Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York. <sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | EFF-1<br>7/26/2007 | EFF-1 <sup>(3)</sup><br>9/6/2007 | EFF-1<br>9/28/2007 | EFF-1<br>10/25/2007 | EFF-1 <sup>(4)</sup><br>12/13/2007 | EFF-1<br>12/27/2007 | EFF-1 <sup>(5)</sup><br>2/5/2008 | EFF-1<br>2/26/2008 | EFF-1 <sup>(6)</sup><br>4/3/2008 | EFF-1<br>4/30/2008 | EFF-1<br>5/27/2008 |
|-----------------------------------------------|---------------------|--------------------|----------------------------------|--------------------|---------------------|------------------------------------|---------------------|----------------------------------|--------------------|----------------------------------|--------------------|--------------------|
| Freon 12                                      |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Freon 113                                     |                     | 340                | 220                              | 160                | 97                  | 53                                 | ND                  | 49                               | 60                 | 58                               | 76                 | 87                 |
| 1,1,1-Trichloroethane                         |                     | 120                | 74                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | 30                 | 58                 |
| Trichloroethene                               |                     | 2,800              | 2,100                            | 2,600              | 1,100               | 700                                | 680                 | 590                              | 820                | 820                              | 1,200              | 2,500              |
| cis-1,2-Dichloroethene                        |                     | 440                | 220                              | 210                | 160                 | 130                                | 96                  | 92                               | 120                | 120                              | 97                 | 140                |
| Toluene                                       |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | 63                  | 84                               | 22                 | ND                               | ND                 | ND                 |
| 2-Propanol                                    |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | 64                               | ND                 | ND                               | ND                 | 52                 |
| Benzene                                       |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| MTBE                                          |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 1,1 DCE                                       |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Methylene Chloride                            |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | 32                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Ethanol                                       |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | 38                  | 42                               | ND                 | ND                               | 53                 | ND                 |
| 2-Butanone                                    |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | 17                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Carbon Disulfide                              |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | 21                 |
| Acetone                                       |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Tetrahydrofuran                               |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Ethyl Benzene                                 |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| m,p-Xylene                                    |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| o-Xylene                                      |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| <b>Total VOCs <sup>(2)</sup></b>              |                     | <b>3,700</b>       | <b>2,614</b>                     | <b>2,970</b>       | <b>1,357</b>        | <b>883</b>                         | <b>926</b>          | <b>921</b>                       | <b>1,022</b>       | <b>998</b>                       | <b>1,456</b>       | <b>2,858</b>       |

See notes last page.

Table 3. Summary of Carbon Effluent Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York. <sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | EFF-1<br>6/26/2008 | EFF-1<br>7/23/2008 | EFF-1<br>8/28/2008 | EFF-1<br>9/30/2008 | EFF-1<br>10/30/2008 | EFF-1<br>11/25/2008 | EFF-1 <sup>(7)</sup><br>12/31/2008 | EFF-1<br>1/14/2009 | EFF-1<br>2/25/2009 | EFF-1<br>3/31/2009 | EFF-1 <sup>(8)</sup><br>5/12/2009 |
|-----------------------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|------------------------------------|--------------------|--------------------|--------------------|-----------------------------------|
| Freon 12                                      |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Freon 113                                     |                     | 76                 | 55                 | 65                 | 42                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 1,1,1-Trichloroethane                         |                     | 36                 | 32                 | 39                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Trichloroethene                               |                     | 2,300              | 1900               | 2,900              | 2,000              | 350                 | 56                  | --                                 | 490                | 330                | 580                | 680                               |
| cis-1,2-Dichloroethene                        |                     | 96                 | 81                 | 170                | 140                | 45                  | ND                  | --                                 | 83                 | 25                 | 62                 | 79                                |
| Toluene                                       |                     | ND                 | 210                | ND                 | ND                 | 45                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 2-Propanol                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Benzene                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| MTBE                                          |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 1,1 DCE                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Methylene Chloride                            |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Ethanol                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 2-Butanone                                    |                     | ND                 | 21                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Carbon Disulfide                              |                     | ND                 | 22                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Acetone                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 1,2-Dichloropropane                           |                     | ND                 | 83                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                 | ND                 | 50                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                 | ND                 | 66                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                 | ND                 | 23                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                 | ND                 | 110                 | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| o-Xylene                                      |                     | ND                 | ND                 | ND                 | ND                 | 60                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                 | ND                 | 60                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | 45                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | 80                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| <b>Total VOCs <sup>(2)</sup></b>              |                     | <b>2,508</b>       | <b>2,404</b>       | <b>3,174</b>       | <b>2,182</b>       | <b>934</b>          | <b>56</b>           | <b>--</b>                          | <b>573</b>         | <b>355</b>         | <b>642</b>         | <b>759</b>                        |

See notes last page.

Table 3. Summary of Carbon Effluent Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York. <sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | EFF-1<br>5/28/2009 | EFF-1<br>6/30/2009 | EFF-1 <sup>(9)</sup><br>8/3/2009 | EFF-1<br>8/31/2009 | EFF-1<br>9/30/2009 | EFF-1 <sup>(10)</sup><br>9/30/2009 |
|-----------------------------------------------|---------------------|--------------------|--------------------|----------------------------------|--------------------|--------------------|------------------------------------|
| Freon 12                                      |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| Freon 113                                     |                     | ND                 | 53                 | ND                               | ND                 | ND                 | --                                 |
| 1,1,1-Trichloroethane                         |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| Trichloroethene                               |                     | 1,600              | 2,300              | 520                              | 260                | 150                | --                                 |
| cis-1,2-Dichloroethene                        |                     | 140                | 120                | 24                               | ND                 | ND                 | --                                 |
| Toluene                                       |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| 2-Propanol                                    |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| Benzene                                       |                     | ND                 | 33                 | ND                               | ND                 | ND                 | --                                 |
| MTBE                                          |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| 1,1 DCE                                       |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| Methylene Chloride                            |                     | 25                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| Ethanol                                       |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| 2-Butanone                                    |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| Carbon Disulfide                              |                     | ND                 | 21                 | 19                               | ND                 | ND                 | --                                 |
| Acetone                                       |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| o-Xylene                                      |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                               | ND                 | ND                 | --                                 |
| <b>Total VOCs <sup>(2)</sup></b>              |                     | <b>1,765</b>       | <b>2,527</b>       | <b>563</b>                       | <b>260</b>         | <b>150</b>         | --                                 |

See notes last page.



Table 3. Summary of Carbon Effluent Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York. <sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: 6/30/2006 | EFF-2<br>7/28/2006 | EFF-2<br>8/11/2006 | EFF-2<br>8/25/2006 | EFF-2<br>9/8/2006 | EFF-2<br>10/5/2006 | EFF-2<br>11/3/2006 | EFF-2<br>12/5/2006 | EFF-2<br>4/26/2007 | EFF-2<br>5/29/2007 | EFF-2<br>6/27/2007 |
|-----------------------------------------------|-------------------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Freon 12                                      | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Freon 113                                     | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | 110                |
| 1,1,1-Trichloroethane                         | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Trichloroethene                               | 340                           | 51                 | ND                 | ND                 | ND                | 29                 | ND                 | 94                 | ND                 | ND                 | ND                 |
| cis-1,2-Dichloroethene                        | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | 22                 | ND                 | 310                | 360                |
| Toluene                                       | 48                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | 19                 | ND                 | ND                 | ND                 |
| 2-Propanol                                    | 51                            | 32                 | 29                 | 13                 | 140               | 65                 | 34                 | 21                 | 52                 | ND                 | 38                 |
| Benzene                                       | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| MTBE                                          | ND                            | 53                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 1,1 DCE                                       | ND                            | 29                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Methylene Chloride                            | ND                            | 24                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Ethanol                                       | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 2-Butanone                                    | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Carbon Disulfide                              | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Acetone                                       | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 1,2-Dichloropropane                           | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Tetrahydrofuran                               | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| Ethyl Benzene                                 | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| m,p-Xylene                                    | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| o-Xylene                                      | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 4-Ethyltoluene                                | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        | ND                            | ND                 | ND                 | ND                 | ND                | ND                 | ND                 | ND                 | ND                 | ND                 | ND                 |
| <b>Total VOCs <sup>(2)</sup></b>              | <b>439</b>                    | <b>189</b>         | <b>29</b>          | <b>13</b>          | <b>140</b>        | <b>94</b>          | <b>34</b>          | <b>156</b>         | <b>52</b>          | <b>310</b>         | <b>508</b>         |

See notes last page.

Table 3. Summary of Carbon Effluent Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York. <sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | EFF-2<br>7/26/2007 | EFF-2 <sup>(3)</sup><br>9/6/2007 | EFF-2<br>9/28/2007 | EFF-2<br>10/25/2007 | EFF-2 <sup>(4)</sup><br>12/13/2007 | EFF-2<br>12/27/2007 | EFF-2 <sup>(5)</sup><br>2/5/2008 | EFF-2<br>2/26/2008 | EFF-2 <sup>(6)</sup><br>4/3/2008 | EFF-2<br>4/30/2008 | EFF-2<br>5/27/2008 |
|-----------------------------------------------|---------------------|--------------------|----------------------------------|--------------------|---------------------|------------------------------------|---------------------|----------------------------------|--------------------|----------------------------------|--------------------|--------------------|
| Freon 12                                      |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | 33                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Freon 113                                     |                     | 280                | 280                              | 240                | 210                 | 110                                | 76                  | 110                              | 99                 | 71                               | 100                | 98                 |
| 1,1,1-Trichloroethane                         |                     | ND                 | 55                               | 63                 | ND                  | 60                                 | 55                  | 59                               | 45                 | 47                               | 48                 | 74                 |
| Trichloroethene                               |                     | ND                 | ND                               | 34                 | 110                 | 150                                | 190                 | 270                              | 260                | 330                              | 570                | 1,000              |
| cis-1,2-Dichloroethene                        |                     | 540                | 320                              | 270                | 190                 | 140                                | 130                 | 150                              | 140                | 140                              | 150                | 160                |
| Toluene                                       |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | 32                 | ND                               | ND                 | ND                 |
| 2-Propanol                                    |                     | ND                 | ND                               | 75                 | ND                  | ND                                 | ND                  | ND                               | 59                 | ND                               | ND                 | ND                 |
| Benzene                                       |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| MTBE                                          |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 1,1 DCE                                       |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Methylene Chloride                            |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | 130                 | ND                               | ND                 | ND                               | ND                 | ND                 |
| Ethanol                                       |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | 57                               | 70                 | ND                 |
| 2-Butanone                                    |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Carbon Disulfide                              |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | 18                 |
| Acetone                                       |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Tetrahydrofuran                               |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| Ethyl Benzene                                 |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| m,p-Xylene                                    |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| o-Xylene                                      |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                               | ND                 | ND                  | ND                                 | ND                  | ND                               | ND                 | ND                               | ND                 | ND                 |
| <b>Total VOCs <sup>(2)</sup></b>              |                     | <b>820</b>         | <b>655</b>                       | <b>682</b>         | <b>510</b>          | <b>460</b>                         | <b>614</b>          | <b>589</b>                       | <b>635</b>         | <b>645</b>                       | <b>938</b>         | <b>1,350</b>       |

See notes last page.

Table 3. Summary of Carbon Effluent Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York. <sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | EFF-2<br>6/26/2008 | EFF-2<br>7/23/2008 | EFF-2<br>8/28/2008 | EFF-2<br>9/30/2008 | EFF-2<br>10/30/2008 | EFF-2<br>11/25/2008 | EFF-2 <sup>(7)</sup><br>12/31/2008 | EFF-2<br>1/14/2009 | EFF-2<br>2/25/2009 | EFF-2<br>3/31/2009 | EFF-2 <sup>(8)</sup><br>5/12/2009 |
|-----------------------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|------------------------------------|--------------------|--------------------|--------------------|-----------------------------------|
| Freon 12                                      |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Freon 113                                     |                     | 110                | 96                 | 120                | 49                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 1,1,1-Trichloroethane                         |                     | 48                 | 47                 | 74                 | 45                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Trichloroethene                               |                     | 1,000              | 1,300              | 2,400              | 1,900              | 380                 | 420                 | --                                 | 700                | 510                | 820                | 740                               |
| cis-1,2-Dichloroethene                        |                     | 120                | 93                 | 150                | 110                | 32                  | 35                  | --                                 | 73                 | 68                 | 92                 | 66                                |
| Toluene                                       |                     | ND                 | 110                | ND                 | ND                 | 140                 | 32                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 2-Propanol                                    |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Benzene                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| MTBE                                          |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 1,1 DCE                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Methylene Chloride                            |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Ethanol                                       |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 2-Butanone                                    |                     | ND                 | 18                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Carbon Disulfide                              |                     | 16                 | 26                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Acetone                                       |                     | ND                 | 54                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 1,2-Dichloropropane                           |                     | ND                 | 41                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                 | ND                 | 39                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                 | ND                 | 53                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                 | ND                 | ND                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                 | ND                 | 95                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| o-Xylene                                      |                     | ND                 | ND                 | ND                 | ND                 | 51                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                 | ND                 | 50                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | 38                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                 | ND                 | 65                  | ND                  | --                                 | ND                 | ND                 | ND                 | ND                                |
| <b>Total VOCs <sup>(2)</sup></b>              |                     | <b>1,294</b>       | <b>1,785</b>       | <b>2,744</b>       | <b>2,104</b>       | <b>943</b>          | <b>487</b>          | <b>--</b>                          | <b>773</b>         | <b>578</b>         | <b>912</b>         | <b>806</b>                        |

See notes last page.

Table 3. Summary of Carbon Effluent Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York. <sup>(1)</sup>

| Constituents<br>(units in ug/m <sup>3</sup> ) | Sample ID:<br>Date: | EFF-2<br>5/28/2009 | EFF-2<br>6/30/2009 | EFF-2 <sup>(9)</sup><br>8/3/2009 | EFF-2<br>8/31/2009 | EFF-2 <sup>(11)</sup><br>9/30/2009 | EFF-2<br>12/30/2009 | EFF-2<br>3/25/2010 | EFF-2<br>6/16/2010 |
|-----------------------------------------------|---------------------|--------------------|--------------------|----------------------------------|--------------------|------------------------------------|---------------------|--------------------|--------------------|
| Freon 12                                      |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Freon 113                                     |                     | 53                 | 54                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,1,1-Trichloroethane                         |                     | ND                 | 30                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Trichloroethene                               |                     | 1,700              | 2,500              | 590                              | 300                | 170                                | 81                  | 68                 | 88                 |
| cis-1,2-Dichloroethene                        |                     | 160                | 120                | 29                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Toluene                                       |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2-Propanol                                    |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Benzene                                       |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| MTBE                                          |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,1 DCE                                       |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Methylene Chloride                            |                     | 21                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Ethanol                                       |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2-Butanone                                    |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Carbon Disulfide                              |                     | ND                 | 20                 | 30                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Acetone                                       |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,2-Dichloropropane                           |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Tetrahydrofuran                               |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 2,2,4-Trimethylpentane                        |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| Ethyl Benzene                                 |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| m,p-Xylene                                    |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| o-Xylene                                      |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 4-Ethyltoluene                                |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,3,5-Trimethylbenzene                        |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| 1,2,4-Trimethylbenzene                        |                     | ND                 | ND                 | ND                               | ND                 | ND                                 | ND                  | ND                 | ND                 |
| <b>Total VOCs <sup>(2)</sup></b>              |                     | <b>1,934</b>       | <b>2,724</b>       | <b>649</b>                       | <b>300</b>         | <b>170</b>                         | <b>81</b>           | <b>68</b>          | <b>88</b>          |

See notes last page.

Table 3. Summary of Carbon Effluent Sample Analytical Results, Vapor Recovery System, United Stellar Industries, Plainview, New York. <sup>(1)</sup>

**Notes:**

1. Samples collected by ARCADIS personnel on the dates shown and submitted to Air Toxics Laboratories in Folsom, CA for volatile organic compound (VOC) analyses using Direct Inject Method TO-14. Only VOCs detected at or above their respective laboratory quantification limits at any sample location during the project are presented in this table.
2. "Total VOCs" represents the sum of individual concentrations of compounds listed in this table.
3. The August 2007 monthly compliance sampling event was completed on September 6, 2007.
4. Samples SVE-1 and EFF-1 collected on November 29, 2007 arrived at the laboratory flat. November 2007 monthly compliance sampling was re-conducted on December 13, 2007.
5. Samples collected on January 31, 2008 were delivered to the laboratory outside of the recommended holding time. January 2008 monthly compliance sampling was re-conducted on February 5, 2008.
6. Sample SVE-2 collected on March 26, 2008 arrived at the laboratory flat. March 2008 monthly compliance sampling was re-conducted on April 3, 2008.
7. Samples were not collected during the December 2008 operational period as a result of the system being intermittently offline due to water accumulation in the system knock-out tank.
8. The April 2009 monthly compliance sampling was completed on May 12, 2009.
9. The July 2009 monthly compliance sampling was completed on August 3, 2009.
10. Based on September 22, 2009 New York State Department of Conservation (NYSDEC) carbon treatment, and therefore sample location EFF-1, were removed from system operation on December 3, 2009.
11. Based on September 22, 2009 approval, the frequency of compliance monitoring was decreased from monthly to quarterly beginning with the fourth quarter 2009 (October 1 through December 31, 2009).

ug/m<sup>3</sup> Micrograms per cubic meter

ND Analyte not detected at, or above its laboratory quantification limit

-- Sample not collected

Table A1. NYSDEC DAR-1 December 30, 2009, Air Modeling Estimate for Vapor Recovery System, Spiegel, Plainview, NY.

| <u>Mass Balance</u>              |       |                                           |       |                                                                      |                                                          |
|----------------------------------|-------|-------------------------------------------|-------|----------------------------------------------------------------------|----------------------------------------------------------|
| Measured Effluent Flowrate =     | 215.8 | ACFM                                      |       |                                                                      |                                                          |
|                                  |       | % of Total Flow                           |       |                                                                      |                                                          |
| SVE-1 Measured Flowrate (ACFM) = | 65.6  | 0.41                                      |       |                                                                      |                                                          |
| SVE-2 Measured Flowrate (ACFM) = | 30.0  | 0.19                                      |       |                                                                      |                                                          |
| SVE-3 Measured Flowrate (ACFM) = | 62.5  | 0.40                                      |       |                                                                      |                                                          |
| Sum of Individual Flows (ACFM) = | 158.1 |                                           |       |                                                                      |                                                          |
|                                  | SVE-1 | Lab Data<br>(ug/m <sup>3</sup> )<br>SVE-2 | SVE-3 | Mass Balance<br>Concentration <sup>(1)</sup><br>(ug/m <sup>3</sup> ) | Actual Effluent<br>Concentration<br>(ug/m <sup>3</sup> ) |
| Trichloroethene                  | 83    | 160                                       | 0     | 65                                                                   | 81                                                       |
| cis-1,2-Dichloroethene           | 0     | 0                                         | 27    | 11                                                                   | 0                                                        |

**Notes/Assumptions:**

1. Mass balance concentration = Lab Data Concentration SVE-1 x SVE-1 % of Total Flow + Lab Data Concentration SVE-2 x SVE-2 % of Total Flow + Lab Data Concentration SVE-3 x SVE-3 % of Total Flow.

Table A1. NYSDEC DAR-1 December 30, 2009, Air Modeling Estimate for Vapor Recovery System, Spiegel, Plainview, NY.

Parameters for 12/30/2009 Sampling Event

|                                                               |                                                                      |                                                     |                                 |
|---------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------|---------------------------------|
| Discharge Temperature <sup>(1)</sup>                          | T                                                                    | 553                                                 | °R                              |
| Ambient Temperature <sup>(2)</sup>                            | T <sub>a</sub>                                                       | 503                                                 | °R                              |
| Stack Diameter                                                | D                                                                    | 4                                                   | in                              |
| Stack Radius                                                  | R                                                                    | 0.167                                               | ft                              |
| Stack Area                                                    | A                                                                    | 0.09                                                | ft <sup>2</sup>                 |
| Exit Velocity                                                 | V                                                                    | 41.2                                                | fps                             |
| Exit Flow                                                     | Q                                                                    | 216                                                 | acfm                            |
| Exit Flow                                                     | Q                                                                    | 206                                                 | scfm                            |
| Stack Height                                                  | h <sub>s</sub>                                                       | 12                                                  | ft                              |
| Building Height                                               | h <sub>b</sub>                                                       | 10                                                  | ft                              |
| Ratio of Heights                                              | h <sub>s</sub> /h <sub>b</sub>                                       | 1.20                                                |                                 |
| Plume rise credit? h <sub>s</sub> /h <sub>b</sub> > 1.5?      | (If no, h <sub>e</sub> =h <sub>s</sub> )                             | No                                                  |                                 |
| Momentum Flux                                                 | F <sub>m</sub> = T <sub>a</sub> /T * V <sup>2</sup> * R <sub>2</sub> | n/a                                                 | ft <sup>4</sup> /s <sup>2</sup> |
| Effective Stack Height                                        | h <sub>e</sub>                                                       | 12                                                  | ft                              |
| Reduction Factor? 2.5 > h <sub>s</sub> /h <sub>b</sub> > 1.5? |                                                                      | No, do not reduce impact                            |                                 |
| Actual Annual Impact                                          | C <sub>a</sub>                                                       | RF*6*Q <sub>a</sub> /h <sub>e</sub> <sup>2.25</sup> |                                 |
| Mass Flow                                                     | Q <sub>a</sub>                                                       | S lbs emitted for last 12 months                    |                                 |

Abbreviations:

°R: Degrees Rankine  
 in: Inches  
 ft: Feet  
 fps: Feet per second  
 acfm: Actual cubic feet per minute  
 scfm: Standard cubic feet per minute  
 s: Second  
 lbs: Pounds

Notes/Assumptions:

1. The stack discharge temperature is based on recorded parameters.
2. The ambient temperature based on www.weather.com historic temperatures.

Table A1. NYSDEC DAR-1 December 30, 2009, Air Modeling Estimate for Vapor Recovery System, Spiegel, Plainview, NY.

Calculation of AGC Based on Actual Effluent Results From 12/30/2009 Sampling Event <sup>(1)</sup>

| Compounds              | Maximum Limit on C <sub>a</sub><br>(AGC <sup>2</sup> )<br>ug/m <sup>3</sup> | Maximum Mass<br>Flow Q <sub>a</sub><br>lb/yr | Actual Effluent<br>Emissions C <sub>a</sub><br>ug/m <sup>3</sup> | Mass Flow per Hour<br>lb/hr | Mass Flow per Year<br>lb/yr | Percent of Annual<br>% |
|------------------------|-----------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------|-----------------------------|-----------------------------|------------------------|
| Trichloroethene        | 0.5                                                                         | 22.33                                        | 81.00                                                            | 6.25E-05                    | 0.54763                     | <b>2.45</b>            |
| cis-1,2-Dichloroethene | 63                                                                          | 2,814.15                                     | 0.00                                                             | 0.00E+00                    | 0.00000                     | <b>0.00</b>            |

Calculation of AGC Based on Influent Results From 12/30/2009 Sampling Event <sup>(1)</sup>

| Compounds              | Maximum Limit on C <sub>a</sub><br>(AGC <sup>2</sup> )<br>ug/m <sup>3</sup> | Maximum Mass<br>Flow Q <sub>a</sub><br>lb/yr | Influent<br>Concentrations C <sub>a</sub><br>ug/m <sup>3</sup> | Mass Flow per Hour<br>lb/hr | Mass Flow per Year<br>lb/yr | Percent of Annual<br>% |
|------------------------|-----------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------|-----------------------------|------------------------|
| Trichloroethene        | 0.5                                                                         | 22.33                                        | 64.80                                                          | 5.00E-05                    | 0.43810                     | <b>1.96</b>            |
| cis-1,2-Dichloroethene | 63                                                                          | 2,814.15                                     | 10.67                                                          | 8.24E-06                    | 0.07216                     | <b>0.00</b>            |

Notes/Assumptions:

1. Calculations assume that the system will run with the maximum allowable concentrations between quarterly readings.
2. AGC refers to the Annual Guideline Concentration outlined in the DAR-1 AGC/SGC Tables dated September 10, 2007.

Abbreviations:

ug/m<sup>3</sup>: micrograms per cubic meter  
lb/yr: pounds per year  
lb/hr: pounds per hour



Table A2. NYSDEC DAR-1 March 25, 2010, Air Modeling Estimate for Vapor Recovery System, Spiegel, Plainview, NY.

Mass Balance

|                                  |       |                                  |       |                                                                      |                                                          |
|----------------------------------|-------|----------------------------------|-------|----------------------------------------------------------------------|----------------------------------------------------------|
| Measured Effluent Flowrate =     | 257.0 | ACFM                             |       |                                                                      |                                                          |
|                                  |       | % of Total Flow                  |       |                                                                      |                                                          |
| SVE-1 Measured Flowrate (ACFM) = | 75.6  | 0.43                             |       |                                                                      |                                                          |
| SVE-2 Measured Flowrate (ACFM) = | 41.8  | 0.24                             |       |                                                                      |                                                          |
| SVE-3 Measured Flowrate (ACFM) = | 57.2  | 0.33                             |       |                                                                      |                                                          |
| Sum of Individual Flows (ACFM) = | 174.6 |                                  |       |                                                                      |                                                          |
|                                  |       | Lab Data<br>(ug/m <sup>3</sup> ) |       | Mass Balance<br>Concentration <sup>(1)</sup><br>(ug/m <sup>3</sup> ) | Actual Effluent<br>Concentration<br>(ug/m <sup>3</sup> ) |
|                                  | SVE-1 | SVE-2                            | SVE-3 |                                                                      |                                                          |
| Trichloroethene                  | 81    | 160                              | 0     | 73                                                                   | 68                                                       |
| cis-1,2-Dichloroethene           | 0     | 0                                | 21    | 7                                                                    | 0                                                        |

Notes/Assumptions:

- Mass balance concentration = Lab Data Concentration SVE-1 x SVE-1 % of Total Flow + Lab Data Concentration SVE-2 x SVE-2 % of Total Flow + Lab Data Concentration SVE-3 x SVE-3 % of Total Flow.

Table A2. NYSDEC DAR-1 March 25, 2010, Air Modeling Estimate for Vapor Recovery System, Spiegel, Plainview, NY.

## Parameters for 03/25/2010 Sampling Event

|                                                               |                                                                      |                                                     |                                 |
|---------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------|---------------------------------|
| Discharge Temperature <sup>(1)</sup>                          | T                                                                    | 561                                                 | °R                              |
| Ambient Temperature <sup>(2)</sup>                            | T <sub>a</sub>                                                       | 515                                                 | °R                              |
| Stack Diameter                                                | D                                                                    | 4                                                   | in                              |
| Stack Radius                                                  | R                                                                    | 0.167                                               | ft                              |
| Stack Area                                                    | A                                                                    | 0.09                                                | ft <sup>2</sup>                 |
| Exit Velocity                                                 | V                                                                    | 49.1                                                | fps                             |
| Exit Flow                                                     | Q                                                                    | 257                                                 | acfm                            |
| Exit Flow                                                     | Q                                                                    | 242                                                 | scfm                            |
| Stack Height                                                  | h <sub>s</sub>                                                       | 12                                                  | ft                              |
| Building Height                                               | h <sub>b</sub>                                                       | 10                                                  | ft                              |
| Ratio of Heights                                              | h <sub>s</sub> /h <sub>b</sub>                                       | 1.20                                                |                                 |
| Plume rise credit? h <sub>s</sub> /h <sub>b</sub> > 1.5?      | (If no, h <sub>e</sub> =h <sub>s</sub> )                             | No                                                  |                                 |
| Momentum Flux                                                 | F <sub>m</sub> = T <sub>a</sub> /T * V <sup>2</sup> * R <sup>2</sup> | n/a                                                 | ft <sup>4</sup> /s <sup>2</sup> |
| Effective Stack Height                                        | h <sub>e</sub>                                                       | 12                                                  | ft                              |
| Reduction Factor? 2.5 > h <sub>s</sub> /h <sub>b</sub> > 1.5? |                                                                      | No, do not reduce impact                            |                                 |
| Actual Annual Impact                                          | C <sub>a</sub>                                                       | RF*6*Q <sub>a</sub> /h <sub>e</sub> <sup>2.25</sup> |                                 |
| Mass Flow                                                     | Q <sub>a</sub>                                                       | S lbs emitted for last 12 months                    |                                 |

## Abbreviations:

°R: Degrees Rankine  
 in: Inches  
 ft: Feet  
 fps: Feet per second  
 acfm: Actual cubic feet per minute  
 scfm: Standard cubic feet per minute  
 s: Second  
 lbs: Pounds

## Notes/Assumptions:

1. The stack discharge temperature is based on recorded parameters.
2. The ambient temperature based on www.weather.com historic temperatures.

Table A2. NYSDEC DAR-1 March 25, 2010, Air Modeling Estimate for Vapor Recovery System, Spiegel, Plainview, NY.

Calculation of AGC Based on Actual Effluent Results From 03/25/2010 Sampling Event <sup>(1)</sup>

| Compounds              | Maximum Limit on C <sub>a</sub><br>(AGC <sup>2</sup> )<br>ug/m <sup>3</sup> | Maximum Mass<br>Flow Q <sub>a</sub><br>lb/yr | Actual Effluent<br>Emissions C <sub>a</sub><br>ug/m <sup>3</sup> | Mass Flow per Hour<br>lb/hr | Mass Flow per Year<br>lb/yr | Percent of Annual<br>% |
|------------------------|-----------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------|-----------------------------|-----------------------------|------------------------|
| Trichloroethene        | 0.5                                                                         | 22.33                                        | 68.00                                                            | 6.15E-05                    | 0.53890                     | <b>2.41</b>            |
| cis-1,2-Dichloroethene | 63                                                                          | 2,814.15                                     | 0.00                                                             | 0.00E+00                    | 0.00000                     | <b>0.00</b>            |

Calculation of AGC Based on Influent Results From 03/25/2010 Sampling Event <sup>(1)</sup>

| Compounds              | Maximum Limit on C <sub>a</sub><br>(AGC <sup>2</sup> )<br>ug/m <sup>3</sup> | Maximum Mass<br>Flow Q <sub>a</sub><br>lb/yr | Influent<br>Concentrations C <sub>a</sub><br>ug/m <sup>3</sup> | Mass Flow per Hour<br>lb/hr | Mass Flow per Year<br>lb/yr | Percent of Annual<br>% |
|------------------------|-----------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------|-----------------------------|------------------------|
| Trichloroethene        | 0.5                                                                         | 22.33                                        | 73.38                                                          | 6.64E-05                    | 0.58157                     | <b>2.60</b>            |
| cis-1,2-Dichloroethene | 63                                                                          | 2,814.15                                     | 6.88                                                           | 6.22E-06                    | 0.05452                     | <b>0.00</b>            |

Notes/Assumptions:

1. Calculations assume that the system will run with the maximum allowable concentrations between quarterly readings.
2. AGC refers to the Annual Guideline Concentration outlined in the DAR-1 AGC/SGC Tables dated September 10, 2007.

Abbreviations:

ug/m<sup>3</sup>: micrograms per cubic meter  
lb/yr: pounds per year  
lb/hr: pounds per hour

Table A3. NYSDEC DAR-1 June 16, 2010, Air Modeling Estimate for Vapor Recovery System, Spiegel, Plainview, NY.

### Mass Balance

**Notes/Assumptions:**

1. Mass balance concentration = Lab Data Concentration SVE-1 x SVE-1 % of Total Flow + Lab Data Concentration SVE-2 x SVE-2 % of Total Flow + Lab Data Concentration SVE-3 x SVE-3 % of Total Flow.

Table A3. NYSDEC DAR-1 June 16, 2010, Air Modeling Estimate for Vapor Recovery System, Spiegel, Plainview, NY.

Parameters for 06/16/2010 Sampling Event

|                                                               |                                                                      |                                                     |                                 |
|---------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------|---------------------------------|
| Discharge Temperature <sup>(1)</sup>                          | T                                                                    | 569                                                 | °R                              |
| Ambient Temperature <sup>(2)</sup>                            | T <sub>a</sub>                                                       | 534                                                 | °R                              |
| Stack Diameter                                                | D                                                                    | 4                                                   | in                              |
| Stack Radius                                                  | R                                                                    | 0.167                                               | ft                              |
| Stack Area                                                    | A                                                                    | 0.09                                                | ft <sup>2</sup>                 |
| Exit Velocity                                                 | V                                                                    | 48.9                                                | fps                             |
| Exit Flow                                                     | Q                                                                    | 256                                                 | acfm                            |
| Exit Flow                                                     | Q                                                                    | 237                                                 | scfm                            |
| Stack Height                                                  | h <sub>s</sub>                                                       | 12                                                  | ft                              |
| Building Height                                               | h <sub>b</sub>                                                       | 10                                                  | ft                              |
| Ratio of Heights                                              | h <sub>s</sub> /h <sub>b</sub>                                       | 1.20                                                |                                 |
| Plume rise credit? h <sub>s</sub> /h <sub>b</sub> > 1.5?      | (If no, h <sub>e</sub> =h <sub>s</sub> )                             | No                                                  |                                 |
| Momentum Flux                                                 | F <sub>m</sub> = T <sub>a</sub> /T * V <sup>2</sup> * R <sup>2</sup> | n/a                                                 | ft <sup>4</sup> /s <sup>2</sup> |
| Effective Stack Height                                        | h <sub>e</sub>                                                       | 12                                                  | ft                              |
| Reduction Factor? 2.5 > h <sub>s</sub> /h <sub>b</sub> > 1.5? |                                                                      | No, do not reduce impact                            |                                 |
| Actual Annual Impact                                          | C <sub>a</sub>                                                       | RF*6*Q <sub>a</sub> /h <sub>e</sub> <sup>2.25</sup> |                                 |
| Mass Flow                                                     | Q <sub>a</sub>                                                       | S lbs emitted for last 12 months                    |                                 |

Abbreviations:

°R: Degrees Rankine  
 in: Inches  
 ft: Feet  
 fps: Feet per second  
 acfm: Actual cubic feet per minute  
 scfm: Standard cubic feet per minute  
 s: Second  
 lbs: Pounds

Notes/Assumptions:

1. The stack discharge temperature is based on recorded parameters.
2. The ambient temperature based on www.weather.com historic temperatures.