

## **APPENDIX D**

Ambient Air Quality and Odor Assessment at the  
City of Albany Rapp Road Solid Waste Management Facility

### **METEOROLOGICAL DATA**

**Table D-1 - Meteorological Conditions for May 2 & 3, 2007**

| EDT<br>(HHMM) | MWS<br>(MPH) | MWD<br>(Degrees) | SDWD<br>(Degrees) | TEMP<br>(Deg F) | RH<br>(%)   | PRESS<br>(in. Hg) | PRECIP<br>(in.) |
|---------------|--------------|------------------|-------------------|-----------------|-------------|-------------------|-----------------|
| 1500          | 13.1         | 334.3            | 19.1              | 63.3            | 25.6        | 29.46             | 0.0             |
| 1600          | 12.9         | 343.1            | 21.6              | 64.1            | 21.9        | 29.46             | 0.0             |
| 1700          | 13.4         | 339.2            | 19.2              | 63.9            | 21.9        | 29.47             | 0.0             |
| 1800          | 15.5         | 351.1            | 17.3              | 64.2            | 19.9        | 29.48             | 0.0             |
| 1900          | 15.3         | 350.7            | 15.2              | 63.5            | 17.7        | 29.51             | 0.0             |
| 2000          | 10.7         | 20.7             | 14.3              | 60.5            | 27.9        | 29.54             | 0.0             |
| 2100          | 8.2          | 23.6             | 12.0              | 56.5            | 34.3        | 29.58             | 0.0             |
| 2200          | 7.9          | 10.8             | 9.5               | 53.9            | 38.4        | 29.63             | 0.0             |
| 2300          | 7.2          | 359.8            | 7.1               | 51.2            | 43.5        | 29.66             | 0.0             |
| 2400          | 5.2          | 349.3            | 8.5               | 49.5            | 47.4        | 29.68             | 0.0             |
| 100           | 5.8          | 327.4            | 7.7               | 48.6            | 46.5        | 29.69             | 0.0             |
| 200           | 6.2          | 318.5            | 6.6               | 47.5            | 43.2        | 29.70             | 0.0             |
| 300           | 6.8          | 305.1            | 7.6               | 45.7            | 46.2        | 29.70             | 0.0             |
| 400           | 7.4          | 309.5            | 6.3               | 44.0            | 51.1        | 29.70             | 0.0             |
| 500           | 8.0          | 317.6            | 6.8               | 43.7            | 54.2        | 29.71             | 0.0             |
| 600           | 7.1          | 327.7            | 10.6              | 43.1            | 57.4        | 29.72             | 0.0             |
| <b>700</b>    | <b>6.6</b>   | <b>354.4</b>     | <b>9.4</b>        | <b>43.3</b>     | <b>59.0</b> | <b>29.76</b>      | <b>0.0</b>      |
| <b>800</b>    | <b>6.0</b>   | <b>338.9</b>     | <b>12.7</b>       | <b>45.8</b>     | <b>53.9</b> | <b>29.78</b>      | <b>0.0</b>      |
| <b>900</b>    | <b>5.2</b>   | <b>338.8</b>     | <b>25.5</b>       | <b>50.7</b>     | <b>41.9</b> | <b>29.79</b>      | <b>0.0</b>      |
| <b>1000</b>   | <b>4.9</b>   | <b>343.3</b>     | <b>52.6</b>       | <b>53.7</b>     | <b>30.7</b> | <b>29.79</b>      | <b>0.0</b>      |
| <b>1100</b>   | <b>8.7</b>   | <b>340.3</b>     | <b>27.0</b>       | <b>55.9</b>     | <b>27.2</b> | <b>29.79</b>      | <b>0.0</b>      |
| <b>1200</b>   | <b>10.1</b>  | <b>337.0</b>     | <b>29.0</b>       | <b>58.1</b>     | <b>21.8</b> | <b>29.78</b>      | <b>0.0</b>      |
| <b>1300</b>   | <b>11.8</b>  | <b>327.5</b>     | <b>24.6</b>       | <b>59.8</b>     | <b>20.7</b> | <b>29.76</b>      | <b>0.0</b>      |
| <b>1400</b>   | <b>12.4</b>  | <b>320.3</b>     | <b>23.7</b>       | <b>61.9</b>     | <b>20.2</b> | <b>29.73</b>      | <b>0.0</b>      |
| <b>1500</b>   | <b>10.8</b>  | <b>312.1</b>     | <b>32.7</b>       | <b>63.8</b>     | <b>19.7</b> | <b>29.71</b>      | <b>0.0</b>      |
| <b>1600</b>   | <b>12.5</b>  | <b>314.4</b>     | <b>23.0</b>       | <b>65.1</b>     | <b>17.4</b> | <b>29.69</b>      | <b>0.0</b>      |

**Notes:**

- Bold indicates time of testing.
- 360 degrees is due North (Grid North).
- EDT: Eastern Daylight Savings Time.
- MWS: Mean Wind Speed, miles per hour.
- MWD: Mean Wind Direction, corrected for magnetic declination (-14°).
- SDWD: Standard Deviation of Wind Direction.
- TEMP: Ambient Temperature, degrees Fahrenheit.
- RH: Relative Humidity, percent.
- PRESS: Atmospheric Pressure, inches of mercury.
- PRECIP: Precipitation, inches of water.

**Table D-2 - Meteorological Conditions for August 1 & 2, 2007**

| EDT<br>(HHMM) | MWS<br>(MPH) | MWD<br>(Degrees) | SDWD<br>(Degrees) | TEMP<br>(Deg F) | RH<br>(%)   | PRESS<br>(in. Hg) | PRECIP<br>(in.) |
|---------------|--------------|------------------|-------------------|-----------------|-------------|-------------------|-----------------|
| <b>1600</b>   | <b>5.2</b>   | <b>319.3</b>     | <b>33.0</b>       | <b>87.1</b>     | <b>40.0</b> | <b>29.50</b>      | <b>0.0</b>      |
| <b>1700</b>   | <b>5.1</b>   | <b>325.2</b>     | <b>29.7</b>       | <b>87.4</b>     | <b>38.8</b> | <b>29.49</b>      | <b>0.0</b>      |
| <b>1800</b>   | <b>4.3</b>   | <b>307.7</b>     | <b>16.8</b>       | <b>87.6</b>     | <b>40.2</b> | <b>29.48</b>      | <b>0.0</b>      |
| <b>1900</b>   | <b>3.9</b>   | <b>309.6</b>     | <b>13.0</b>       | <b>86.6</b>     | <b>44.0</b> | <b>29.48</b>      | <b>0.0</b>      |
| <b>2000</b>   | <b>2.8</b>   | <b>275.5</b>     | <b>14.3</b>       | <b>84.5</b>     | <b>51.4</b> | <b>29.48</b>      | <b>0.0</b>      |
| <b>2100</b>   | <b>2.9</b>   | <b>207.8</b>     | <b>11.4</b>       | <b>82.0</b>     | <b>57.2</b> | <b>29.49</b>      | <b>0.0</b>      |
| <b>2200</b>   | <b>3.6</b>   | <b>231.1</b>     | <b>9.7</b>        | <b>79.6</b>     | <b>62.1</b> | <b>29.50</b>      | <b>0.0</b>      |
| <b>2300</b>   | <b>4.6</b>   | <b>258.4</b>     | <b>11.7</b>       | <b>77.6</b>     | <b>64.5</b> | <b>29.51</b>      | <b>0.0</b>      |
| <b>2400</b>   | <b>3.5</b>   | <b>187.7</b>     | <b>17.2</b>       | <b>76.2</b>     | <b>68.1</b> | <b>29.52</b>      | <b>0.0</b>      |
| <b>100</b>    | <b>4.0</b>   | <b>198.5</b>     | <b>14.5</b>       | <b>75.1</b>     | <b>71.6</b> | <b>29.53</b>      | <b>0.0</b>      |
| <b>200</b>    | <b>4.6</b>   | <b>162.2</b>     | <b>8.8</b>        | <b>72.6</b>     | <b>82.4</b> | <b>29.53</b>      | <b>0.0</b>      |
| 300           | 4.7          | 166.6            | 7.3               | 71.5            | 84.8        | 29.54             | 0.0             |
| 400           | 5.0          | 174.0            | 6.7               | 70.4            | 85.4        | 29.53             | 0.0             |
| 500           | 5.1          | 170.8            | 7.5               | 68.8            | 89.0        | 29.53             | 0.0             |
| 600           | 3.6          | 141.8            | 30.7              | 67.7            | 91.8        | 29.54             | 0.0             |
| 700           | 3.5          | 169.6            | 10.7              | 68.3            | 89.2        | 29.57             | 0.0             |
| 800           | 5.0          | 168.5            | 13.0              | 70.1            | 85.1        | 29.57             | 0.0             |
| 900           | 3.7          | 154.2            | 18.1              | 73.1            | 77.2        | 29.59             | 0.0             |
| 1000          | 2.8          | 137.9            | 36.8              | 79.8            | 68.2        | 29.61             | 0.0             |

**Notes:**

- Bold indicates time of testing.
- 360 degrees is due North (Grid North).
- EDT: Eastern Daylight Savings Time.
- MWS: Mean Wind Speed, miles per hour.
- MWD: Mean Wind Direction, corrected for magnetic declination (-14°).
- SDWD: Standard Deviation of Wind Direction.
- TEMP: Ambient Temperature, degrees Fahrenheit.
- RH: Relative Humidity, percent.
- PRESS: Atmospheric Pressure, inches of mercury.
- PRECIP: Precipitation, inches of water.

**Table D-3 - Meteorological Conditions for November 5, 2007**

| EDT<br>(HHMM) | MWS<br>(MPH) | MWD<br>(Degrees) | SDWD<br>(Degrees) | TEMP<br>(Deg F) | RH<br>(%)   | PRESS<br>(in. Hg) | PRECIP<br>(in.) |
|---------------|--------------|------------------|-------------------|-----------------|-------------|-------------------|-----------------|
| 100           | 4.0          | 254.1            | 11.1              | 43.6            | 70.1        | 29.47             | 0.0             |
| 200           | 2.5          | 128.2            | 35.9              | 42.2            | 74.1        | 29.47             | 0.0             |
| 300           | 2.2          | 235              | 35.7              | 42.4            | 73.4        | 29.48             | 0.0             |
| 400           | 2.0          | 142.8            | 41.8              | 41.2            | 78.1        | 29.48             | 0.0             |
| 500           | 3.1          | 179.4            | 41.4              | 39.4            | 84.2        | 29.49             | 0.0             |
| 600           | 2.2          | 131.0            | 38.6              | 38.8            | 86.8        | 29.51             | 0.0             |
| <b>700</b>    | <b>2.0</b>   | <b>163.7</b>     | <b>17.6</b>       | <b>38.6</b>     | <b>88.3</b> | <b>29.53</b>      | <b>0.0</b>      |
| <b>800</b>    | <b>4.3</b>   | <b>163.8</b>     | <b>24.3</b>       | <b>39.6</b>     | <b>85.6</b> | <b>29.55</b>      | <b>0.0</b>      |
| <b>900</b>    | <b>6.0</b>   | <b>160.8</b>     | <b>12.8</b>       | <b>40.6</b>     | <b>83.6</b> | <b>29.55</b>      | <b>0.0</b>      |
| <b>1000</b>   | <b>3.7</b>   | <b>186.9</b>     | <b>18.2</b>       | <b>43.0</b>     | <b>78.0</b> | <b>29.56</b>      | <b>0.0</b>      |
| <b>1100</b>   | <b>6.4</b>   | <b>166.2</b>     | <b>18.8</b>       | <b>47.6</b>     | <b>64.1</b> | <b>29.55</b>      | <b>0.0</b>      |
| <b>1200</b>   | <b>8.8</b>   | <b>158.2</b>     | <b>16.5</b>       | <b>50.8</b>     | <b>54.0</b> | <b>29.52</b>      | <b>0.0</b>      |
| <b>1300</b>   | <b>10.5</b>  | <b>173.3</b>     | <b>17.7</b>       | <b>53.0</b>     | <b>45.9</b> | <b>29.49</b>      | <b>0.0</b>      |
| <b>1400</b>   | <b>11.2</b>  | <b>172.1</b>     | <b>15.2</b>       | <b>54.0</b>     | <b>43.6</b> | <b>29.47</b>      | <b>0.0</b>      |
| <b>1500</b>   | <b>11.9</b>  | <b>173.6</b>     | <b>14.3</b>       | <b>53.7</b>     | <b>42.9</b> | <b>29.46</b>      | <b>0.0</b>      |
| <b>1600</b>   | <b>12.3</b>  | <b>177.6</b>     | <b>12.2</b>       | <b>53.8</b>     | <b>42.8</b> | <b>29.45</b>      | <b>0.0</b>      |
| <b>1700*</b>  | <b>11.6</b>  | <b>171.0</b>     | <b>12.6</b>       | <b>52.8</b>     | <b>44.2</b> | <b>29.44</b>      | <b>0.0</b>      |

**Notes:**

\* Hourly average represents meteorology data collected from 16:01 through 16:30 only.

- Bold indicates time of testing.

- 360 degrees is due North (Grid North).

EDT: Eastern Daylight Savings Time.

MWS: Mean Wind Speed, miles per hour.

MWD: Mean Wind Direction, corrected for magnetic declination (-14°).

SDWD: Standard Deviation of Wind Direction.

TEMP: Ambient Temperature, degrees Fahrenheit.

RH: Relative Humidity, percent.

PRESS: Atmospheric Pressure, inches of mercury.

PRECIP: Precipitation, inches of water.

**Table D-4 - Meteorological Conditions for January 30 & 31, 2008**

| EST<br>(HH:MM) | MWS<br>(MPH) | MWD<br>(Degrees) | SDWD<br>(Degrees) | TEMP<br>(Deg F) | RH<br>(%)   | PRESS<br>(in. Hg) | PRECIP<br>(in.) |
|----------------|--------------|------------------|-------------------|-----------------|-------------|-------------------|-----------------|
| 19:00          | 7.3          | 312.6            | 17.3              | 26.5            | 48.2        | 29.44             | 0.0             |
| 20:00          | 7.5          | 309.1            | 13.4              | 25.6            | 46.7        | 29.47             | 0.0             |
| 21:00          | 4.4          | 306              | 19.3              | 24.6            | 44.8        | 29.50             | 0.0             |
| 22:00          | 3.7          | 334.6            | 28.9              | 23.8            | 44.5        | 29.56             | 0.0             |
| 23:00          | 5.8          | 323.1            | 15.3              | 23.1            | 45.7        | 29.59             | 0.0             |
| 0:00           | 6.5          | 313.2            | 21.5              | 22.8            | 47.7        | 29.65             | 0.0             |
| 1:00           | 5.9          | 286.8            | 29.1              | 22.6            | 48.6        | 29.68             | 0.0             |
| 2:00           | 6.5          | 305.1            | 41.7              | 22.2            | 48.7        | 29.74             | 0.0             |
| 3:00           | 6.7          | 289.7            | 29.8              | 22.1            | 49.0        | 29.77             | 0.0             |
| 4:00           | 2.5          | 348.5            | 71.7              | 21.5            | 51.0        | 29.80             | 0.0             |
| 5:00           | 4.1          | 344.7            | 35.2              | 21.1            | 62.2        | 29.82             | 0.0             |
| <b>6:00</b>    | <b>5.9</b>   | <b>309.1</b>     | <b>20.4</b>       | <b>20.2</b>     | <b>71.4</b> | <b>29.85</b>      | <b>0.0</b>      |
| <b>7:00</b>    | <b>7.9</b>   | <b>292.3</b>     | <b>17.5</b>       | <b>19.9</b>     | <b>65.6</b> | <b>29.88</b>      | <b>0.0</b>      |
| <b>8:00</b>    | <b>7.9</b>   | <b>286.2</b>     | <b>14.1</b>       | <b>20.0</b>     | <b>61.2</b> | <b>29.94</b>      | <b>0.0</b>      |
| <b>9:00</b>    | <b>8.2</b>   | <b>285.0</b>     | <b>13.0</b>       | <b>21.4</b>     | <b>57.4</b> | <b>29.97</b>      | <b>0.0</b>      |
| <b>10:00</b>   | <b>10.5</b>  | <b>292.3</b>     | <b>20.2</b>       | <b>22.9</b>     | <b>52.8</b> | <b>30.00</b>      | <b>0.0</b>      |
| <b>11:00</b>   | <b>12.0</b>  | <b>278.4</b>     | <b>19.4</b>       | <b>24.3</b>     | <b>50.8</b> | <b>30.03</b>      | <b>0.0</b>      |
| <b>12:00</b>   | <b>12.4</b>  | <b>271.9</b>     | <b>17.2</b>       | <b>25.3</b>     | <b>49.8</b> | <b>30.03</b>      | <b>0.0</b>      |
| <b>13:00</b>   | <b>11.0</b>  | <b>294.4</b>     | <b>28.7</b>       | <b>26.7</b>     | <b>47.6</b> | <b>30.03</b>      | <b>0.0</b>      |
| <b>14:00</b>   | <b>12.0</b>  | <b>311.4</b>     | <b>22.7</b>       | <b>27.9</b>     | <b>44.7</b> | <b>30.03</b>      | <b>0.0</b>      |
| <b>15:00</b>   | <b>10.0</b>  | <b>329.9</b>     | <b>23.3</b>       | <b>28.4</b>     | <b>43.5</b> | <b>30.03</b>      | <b>0.0</b>      |
| 16:00          | 8.3          | 321.7            | 17.7              | 28.8            | 42.8        | 30.03             | 0.0             |

**Notes:**

\* Hourly average represents meteorology data collected from 15:01 through 15:30 only.

- Bold indicates time of testing.

- 360 degrees is due North (Grid North).

EST: Eastern Standard Time.

MWS: Mean Wind Speed, miles per hour.

MWD: Mean Wind Direction, corrected for magnetic declination (-14°).

SDWD: Standard Deviation of Wind Direction.

TEMP: Ambient Temperature, degrees Fahrenheit.

RH: Relative Humidity, percent.

PRESS: Atmospheric Pressure, inches of mercury.

PRECIP: Precipitation, inches of water.