

EXECUTIVE SUMMARY

The 2009 Landfill Gas System at Imperial Landfill was expanded to include the following components:

33 LFG extraction wells (16 Redrill & 17 New), 800-feet of 6-inch SDR-11 solid and 1,948-feet of 6-inch SDR-11 perforated pipe,
4,314-feet of 6-inch diameter SDR-17 HDPE gas lateral piping,
2,575-feet of 8-inch diameter SDR-17 HDPE gas lateral piping,
919-feet of 12-inch diameter SDR-17 HDPE gas header piping,
3,612-feet of 24-inch diameter SDR-17 HDPE gas header piping (installed in 2007 & buried in 2009),
4,773-feet of 3-inch diameter SDR-9 HDPE airline piping,
5,423-feet of 2-inch by 4-inch diameter SDR-11 HDPE dual contained forcemain,
8,981-feet of 2-inch diameter SDR-9 HDPE airline piping, and
3,780-feet of 2-inch diameter SDR-11 HDPE forcemain piping.

Imperial Landfill – 2009 LFG Construction

| Well ID | New / Re-Drill | Northing | Easting | Actual Ground Elevation | Top of Protective Cover | Approx. Depth of Refuse | Actual Well Depth | Solid Pipe Length Below Grade | Actual Slotted Pipe Length |
|-------------------------|----------------|----------|---------|-------------------------|-------------------------|-------------------------|-------------------|-------------------------------|----------------------------|
| | | | | (ft) | (ft) | (ft) | (ft) | (ft) | (ft) |
| SPRING WELLS | | | | | | | | | |
| 7-21R | Redrill | 21,918 | 16,384 | 1299 | 1150 | 149 | 100 | 20 | 79 |
| 7-30R | Redrill | 22,216 | 17,075 | 1364 | 1130 | 234 | 90 | 20 | 69 |
| 7-42R2 | Redrill | 21,544 | 17,023 | 1198 | 1105 | 93 | 76 | 20 | 52 |
| 7-60 | Redrill | 22,338 | 17,498 | 1311 | 1160 | 151 | 100 | 20 | 79 |
| 7-61 | Redrill | 22,376 | 17,189 | 1348 | 1160 | 188 | 100 | 20 | 79 |
| 7-62 | Redrill | 22,387 | 16,985 | 1366 | 1125 | 241 | 100 | 20 | 79 |
| 7-63 | New | 22,499 | 16,635 | 1370 | 1125 | 245 | 100 | 20 | 79 |
| 7-64 | Redrill | 22,464 | 16,443 | 1363 | 1130 | 233 | 85 | 20 | 54 |
| 7-65 | New | 22,307 | 16,559 | 1366 | 1120 | 246 | 100 | 20 | 79 |
| 7-66 | New | 22,139 | 16,520 | 1347 | 1130 | 217 | 100 | 20 | 79 |
| 7-67 | Redrill | 22,157 | 16,694 | 1369 | 1115 | 254 | 100 | 20 | 79 |
| 7-68 | Redrill | 22,172 | 16,890 | 1367 | 1115 | 252 | 100 | 20 | 79 |
| 7-69 | Redrill | 21,800 | 16,545 | 1272 | 1130 | 142 | 100 | 20 | 79 |
| 7-70 | New | 21,181 | 17,762 | 1134 | 1080 | 54 | 39 | 20 | 18 |
| 7-71 | New | 21,160 | 17,574 | 1140 | 1084 | 56 | 41 | 20 | 20 |
| 7-73 | New | 21,155 | 17,374 | 1145 | 1090 | 55 | 40 | 20 | 19 |
| 7-74 | New | 21,304 | 17,538 | 1183 | 1086 | 97 | 77 | 20 | 56 |
| 7-75 | New | 21,323 | 17,384 | 1186 | 1095 | 91 | 74 | 20 | 53 |
| 7-76 | New | 21,199 | 17,194 | 1144 | 1096 | 48 | 33 | 15 | 18 |
| 7-77 | New | 21,332 | 17,069 | 1157 | 1100 | 57 | 42 | 20 | 21 |
| 7-78 | New | 21,399 | 17,191 | 1188 | 1100 | 88 | 73 | 20 | 52 |
| 7-79 | New | 21,429 | 16,905 | 1164 | 1105 | 59 | 44 | 20 | 23 |
| SUMMER WELLS | | | | | | | | | |
| 7-6R | Redrill | 23,086 | 15,929 | 1324 | 1160 | 164 | 141 | 20 | 120 |
| *7-37A | Redrill | 21,884 | 17,206 | 1266 | 1115 | 151 | 69 | 20 | 48 |
| 7-50R | Redrill | 21,634 | 17,515 | 1244 | 1095 | 149 | 111 | 20 | 91 |
| 7-54 | New | 22,053 | 17,273 | 1309 | 1145 | 164 | 83 | 20 | 63 |
| *7-55A | New | 22,017 | 17,073 | 1316 | 1117 | 199 | 75 | 20 | 55 |
| 7-56 | New | 21,899 | 16,676 | 1301 | 1116 | 185 | 102 | 20 | 82 |
| 7-57 | New | 21,947 | 16,888 | 1309 | 1109 | 200 | 75 | 20 | 55 |
| 7-58 | New | 22,264 | 17,335 | 1350 | 1153 | 197 | 98 | 20 | 77 |
| *7-80 | Redrill | 21,761 | 17,010 | 1253 | 1105 | 148 | 99 | 20 | 79 |
| 7-81 | Redrill | 21,505 | 16,629 | 1176 | 1109 | 67 | 53 | 20 | 32 |
| 7-82 | Redrill | 21,636 | 17,333 | 1246 | 1093 | 153 | 101 | 20 | 80 |
| TOTALS FOR 2009: | | | | | | | 2622 | 635 | 1948 |

* - Wells not connected to the collection system as of 8/27/09.