

## San Diego Metropolitan Transit

### CA-GREET Model for McCarty Rd Landfill to SD Metro Pathway

The applicant has conducted its analysis of direct effects on carbon intensity for this pathway using CA-GREET, v.1.8b (Dec. 2009) (See [http://www.arb.ca.gov/fuels/lcfs/ca\\_greet1.8b\\_dec09.xls](http://www.arb.ca.gov/fuels/lcfs/ca_greet1.8b_dec09.xls)). The standard inputs and parameters specified in CA-GREET remain unchanged except as noted in the input table below. The input table below specifies the spreadsheet location of the CA-GREET inputs and other parameters that were claimed as confidential business information or trade secret by the applicant, but it does not disclose the actual value of such inputs and parameters because they are claimed to be confidential business information or trade secret.

SD Metro Input data table (Locations of cells containing Confidential Business Information are shown, but the actual values of such confidential information are not disclosed):

| Parameter                  | Unit      | Value        | CA-GREET Cell Changed         |
|----------------------------|-----------|--------------|-------------------------------|
| LFG Recovery and Transport |           |              |                               |
| Thermal                    | Btu/MMBtu | Confidential | CA-GREET Default (L85)        |
| Electricity                | Btu/MMBtu | Confidential | CA-GREET Default (L91)        |
| Total Energy               | Btu/MMBtu | Confidential | N/A                           |
| LFG Plant                  |           | NG Tab       |                               |
| LFG Processing Efficiency  | %         | Confidential | AI66 (via C182)               |
| Electricity Fuel Share     | %         | Confidential | AI79 (via C184)               |
| LFG Fuel Share             | %         | Confidential | AI75 (via C183)               |
| Natural Gas Fuel Share     | %         | Confidential | AI76 (via C186)               |
| Electricity                | kWh/MMBtu | Confidential | N/A                           |
| Electricity                | Btu/MMBtu | Confidential | Calculated in CA-GREET (AI91) |
| LFG                        | Btu/MMBtu | Confidential | Calculated in CA-GREET (AI87) |
| Natural Gas                | Btu/MMBtu | Confidential | Calculated in CA-GREET (AI85) |

|   |             |                                 |                               |
|---|-------------|---------------------------------|-------------------------------|
| Credit for Not Flaring                  | Btu/MMBtu   | Confidential                    | Calculated in CA-GREET (AJ88) |
| Total Energy                            | Btu/MMBtu   | Confidential                    | N/A                           |
| ERCT Electricity Grid Mix               |             | Regional LT Tab                 |                               |
| Residual oil                            | %           | 1.2                             | J83                           |
| Natural gas                             | %           | 60.4                            | J84                           |
| Coal                                    | %           | 33.0                            | J85                           |
| Nuclear                                 | %           | 0.0                             | J86                           |
| Biomass                                 | %           | 0.1                             | J87                           |
| Other (renewables)                      | %           | 5.3                             | J88                           |
| AZNM Electricity Grid Mix               |             | Regional LT Tab                 |                               |
| Residual oil                            | %           | 0.1                             | J83                           |
| Natural gas                             | %           | 58.2                            | J84                           |
| Coal                                    | %           | 39.6                            | J85                           |
| Nuclear                                 | %           | 0.0                             | J86                           |
| Biomass                                 | %           | 0.3                             | J87                           |
| Other (renewables)                      | %           | 2.8                             | J88                           |
| Natural Gas Transport                   |             | T&D Flowcharts Tab (via NG Tab) |                               |
| Pipeline Distance                       | mi          | 1,365                           | F479 (via E148)               |
| Liquefaction                            |             | NG Tab                          |                               |
| Electricity                             | kWh/gal LNG | Confidential                    | N/A                           |
| Natural Gas                             | Btu/gal LNG | Confidential                    | N/A                           |
| Liquefaction Efficiency                 | %           | Confidential                    | AD66                          |
| Electricity Fuel Share                  | %           | Confidential                    | AD79                          |
| Natural Gas Fuel Share                  | %           | Confidential                    | AD75                          |
| Electricity                             | Btu/MMBtu   | Confidential                    | Calculated in CA-GREET (AD91) |
| Natural Gas                             | Btu/MMBtu   | Confidential                    | Calculated in CA-GREET (AD85) |
| LNG Transport                           |             | T&D Tab                         |                               |
| Transport Distance                      | miles       | 272                             | CD93                          |
| Truck LNG Fuel Share                    | %           | Confidential                    | CD97                          |
| Truck Diesel Fuel Share                 | %           | Confidential                    | CD95                          |
| LNG Storage                             |             | Inputs Tab                      |                               |
| Boil-Off Rate: % per Day                | %/day       | 0.05 / 0.1                      | E171 / F171                   |
| Duration of Storage or Transit:<br>Days | Days        | Confidential                    | E174 / F174                   |
| Recovery Rate for Boil-Off Gas          | %           | Confidential                    | E179 / F179                   |
| L/CNG                                   |             | NG Tab                          |                               |
| L/CNG Conversion                        | gCO2e/MJ    | 1.17                            | J171                          |