INTRODUCTION TO ENERGY SCREENING TABLES

The following worksheets are used to evaluated the potential impacts of a project.

Table 1 Definition of Project

This Table is used to establish the proposed development parameters that are used the calculation of energy usage. The independent variable to be entered is identified by shading. For residential development, the number of housing units should be entered in the shaded area. For non-residential development, the total floor area of development should be entered in the shaded area.

Tables 2 Summary of Project Impacts

Consumption/Generation Rates. This table indicates the development's projected electrical consumption, natural gas consumption, water consumption, effluent generation, and solid waste generation. No modifications should be made to this table.

Tables 3 through 4 Calculation of Project Impacts

Tables 3 through 4 indicate the results of the analysis.

Table 3 Electrical Consumption - This Table calculates the projected electrical consumption for new development. Default generation rates provided in the shaded areas may be changed.

Table 4 Natural Gas Consumption - This Table calculates the projected natural gas useagefor new development. Default generation rates provided in the shaded areas may be changed.

Table 1 Project Name:

VICT 006 - Greentre & Hesperia ISMND - Energy

Definition of Project Parameters - Enter independent variable (no. of units or floor area) in the shaded area. The independent variable to be entered is the number of units (for residential development) or the gross floor area (for non-residential development).

| Land Use | Independent | Factor |
|-----------------------------|--------------|------------------|
| Residential Uses | Variable | Total Units |
| Single-Family Residential | No. of Units | 0 |
| Medium Density Residential | No. of Units | 0 |
| Multiple-Family Residential | No. of Units | 0 |
| Mobile Home | No. of Units | 0 |
| Office Uses | Variable | Total Floor Area |
| Office | Sq. Ft. | 0 |
| Medical Office Building | Sq. Ft. | 0 |
| Office Park | Sq. Ft. | 0 |
| Bank/Financial Services | Sq. Ft. | 0 |
| Commercial Uses | Variable | Floor Area/Rooms |
| Specialty Retail Commercial | Sq. Ft. | 5,785 |
| Convenience Store | Sq. Ft. | 0 |
| Movie Theater | Sq. Ft. | 0 |
| Shopping Center | Sq. Ft. | 0 |
| Sit-Down Restaurant | Sq. Ft. | 0 |
| Fast-Food Restaurant | Sq. Ft. | 0 |
| Car Wash | Sq. Ft. | 1,733 |
| Manufacturing Uses | Variable | Total Floor Area |
| Industrial Park | Sq. Ft. | 0 |
| Manufacturing | Sq. Ft. | 0 |
| General Light Industry | Sq. Ft. | 0 |
| Warehouse | Sq. Ft. | 0 |
| Public/Institutional | Variable | Total Floor Area |
| Public/Institutional | Sq. Ft. | 0 |
| Open Space | Sq. Ft. | 0 |

| Table 2: Projected Energy Consumption and Generation |
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Summary of Project Impacts - Results of analysis identified below. No modifications should be made to this Table.

Utilities Consumption and Generation Factor Rates

| Electrical Consumption | kWh/day | 265.5 |
|-------------------------|----------------|-------|
| Natural Gas Consumption | cubic feet/day | 726.7 |

| Project | Units of | | | Projected |
|-----------------------------|---------------|--------------------|------------------|-----------------|
| Component | Measure | Consumption Factor | | Consumption |
| Residential Uses | No. of Units | kWh | Variable | kWh/Unit/Day |
| Single-Family Residential | 0 | 5,625.00 | kWh/Unit/Year | 0.0 |
| Medium Density Residential | 0 | 5,625.00 | kWh/Unit/Year | 0.0 |
| Multiple-Family Residential | 0 | 5,625.00 | kWh/Unit/Year | 0.0 |
| Mobile Home | 0 | 4,644.00 | kWh/Unit/Year | 0.0 |
| Office Uses | Sq. Ft. | kWh | Variable | kWh/Sq. Ft./Day |
| Office | 0 | 20.80 | kWh/Sq. Ft./Year | 0.0 |
| Medical Office Building | 0 | 14.20 | kWh/Sq. Ft./Year | 0.0 |
| Office Park | 0 | 20.80 | kWh/Sq. Ft./Year | 0.0 |
| Bank/Financial Services | 0 | 20.80 | kWh/Sq. Ft./Year | 0.0 |
| Commercial Uses | Sq. Ft./Rooms | kWh | Variable | kWh/Sq. Ft./Day |
| Specialty Retail Commercial | 5,785 | 16.00 | kWh/Sq. Ft./Year | 253.6 |
| Convenience Store | 0 | 16.00 | kWh/Sq. Ft./Year | 0.0 |
| Movie Theater | 0 | 16.00 | kWh/Sq. Ft./Year | 0.0 |
| Shopping Center | 0 | 35.90 | kWh/Sq. Ft./Year | 0 |
| Sit-Down Restaurant | 0 | 49.10 | kWh/Sq. Ft./Year | 0.0 |
| Fast-Food Restaurant | 0 | 49.10 | kWh/Sq. Ft./Year | 0.0 |
| Car Wash | 1,733 | 2.50 | kWh/Sq. Ft./Year | 11.9 |
| Manufacturing Uses | Sq. Ft. | kWh | Variable | kWh/Sq. Ft./Day |
| Industrial Park | 0 | 4.80 | kWh/Sq. Ft./Year | 0.0 |
| Manufacturing | 0 | 4.80 | kWh/Sq. Ft./Year | 0.0 |
| General Light Industry | 0 | 4.80 | kWh/Sq. Ft./Year | 0.0 |
| Warehouse | 0 | 4.80 | kWh/Sq. Ft./Year | 0.0 |
| Public/Institutional | Sq. Ft. | kWh | Variable | kWh/Sq. Ft./Day |
| Public/Institutional | 0 | 4.80 | kWh/Sq. Ft./Year | 0.0 |
| Open Space | 0 | 0.00 | kWh/Sq. Ft./Year | 0.0 |

Sources

Residential rates were derived from the SCAQMD's CEQA Air Quality Handbook (April 1993).

All other rates are from Common Forecasting Methodology VII Demand Forms, 1989

| Project | Units of | | | Projected |
|-----------------------------|---------------|---------------------|---------------------|-------------|
| Component | Measure | Consumption | Factor | Consumption |
| Residential Uses | No. of Units | Cu. Ft. of Nat. Gas | Variable | Cu. Ft,/Day |
| Single-Family Residential | 0 | 6,665.00 | Cu. Ft./Mo./Unit | 0.0 |
| Medium Density Residential | 0 | 4,011.50 | Cu. Ft./Mo./Unit | 0.0 |
| Multiple-Family Residential | 0 | 4,011.50 | Cu. Ft./Mo./Unit | 0.0 |
| Mobile Home | 0 | 4,011.50 | Cu. Ft./Mo./Unit | 0.0 |
| Office Uses | Sq. Ft. | Cu. Ft. of Nat. Gas | Variable | Cu. Ft,/Day |
| Office | 0 | 2.00 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Medical Office Building | 0 | 2.00 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Office Park | 0 | 2.00 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Bank/Financial Services | 0 | 2.00 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Commercial Uses | Sq. Ft./Rooms | Cu. Ft. of Nat. Gas | Variable | Cu. Ft,/Day |
| Specialty Retail Commercial | 5,785 | 2.90 | Cu. Ft./Mo./Sq. Ft. | 559.2 |
| Convenience Store | 0 | 2.90 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Movie Theater | 0 | 2.90 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Shopping Center | 0 | 2.90 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Sit-Down Restaurant | 0 | 2.90 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Fast-Food Restaurant | 0 | 2.90 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Car Wash | 1,733 | 2.90 | Cu. Ft./Mo./Sq. Ft. | 167.5 |
| Manufacturing Uses | Sq. Ft. | Cu. Ft. of Nat. Gas | Variable | Cu. Ft,/Day |

| Industrial Park | 0 | 4.70 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
|--------------------------|---------|---------------------|---------------------|-------------|
| Manufacturing | 0 | 4.70 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| General Light Industry | 0 | 4.70 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Warehouse | 0 | 4.70 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Public/Institutional Use | Sq. Ft. | Cu. Ft. of Nat. Gas | Variable | Cu. Ft,/Day |
| Public/Institutional | 0 | 2.90 | Cu. Ft./Mo./Sq. Ft. | 0.0 |
| Open Space | 0 | 2.90 | Cu. Ft./Mo./Sq. Ft. | 0.0 |

Total Daily Natural Gas Consumption (cubic feet/day)

726.7

Sources:

South Coast Air Quality Management District, CEQA Air Quality Handbook. April 1993

INTRODUCTION TO UTILITY SCREENING TABLES

The following worksheets are used to evaluated the potential impacts of a project.

Table 1 Definition of Project

This Table is used to establish the proposed development parameters that are used the calculation of utilities usage. The independent variable to be entered is identified by shading. For residential development, the number of housing units should be entered in the shaded area. For non-residential development, the total floor area of development should be entered in the shaded area.

Tables 2 Summary of Project Impacts

Consumption/Generation Rates. This table indicates the development's projected electrical consumption, natural gas consumption, water consumption, effluent generation, and solid waste generation. No modifications should be made to this table.

Tables 3 through 5 Calculation of Project Impacts

Tables 3 through 7 indicate the results of the analysis.

Table 3 Water Consumption - This Table calculates the projected water consumption ratesfor new development. Default generation rates provided in the shaded areas may be changed.

Table 4 Sewage Generation - This Table calculates the projected effluent generation rates for new development. Default generation rates provided in the shaded areas may be changed.

Table 5 Solid Waste Generation - This Table calculates the projected waste generation for new development. Default generation rates provided in the shaded areas may be changed.

Table 1 Project Name: VICT 006 - Greentre & Hesperia ISMND - Utilities

Definition of Project Parameters - Enter independent variable (no. of units or floor area) in the shaded area. The independent variable to be entered is the number of units (for residential development) or the gross floor area (for non-residential development).

| Land Use | Independent | Factor |
|-----------------------------|--------------|------------------|
| Residential Uses | Variable | Total Units |
| Single-Family Residential | No. of Units | 0 |
| Medium Density Residential | No. of Units | 0 |
| Multiple-Family Residential | No. of Units | 0 |
| Mobile Home | No. of Units | 0 |
| Office Uses | Variable | Total Floor Area |
| Office | Sq. Ft. | 0 |
| Medical Office Building | Sq. Ft. | 0 |
| Office Park | Sq. Ft. | 0 |
| Bank/Financial Services | Sq. Ft. | 0 |
| Commercial Uses | Variable | Floor Area/Rooms |
| Specialty Retail Commercial | Sq. Ft. | 5,785 |
| Convenience Store | Sq. Ft. | 0 |
| Movie Theater | Sq. Ft. | 0 |
| Shopping Center | Sq. Ft. | 0 |
| Sit-Down Restaurant | Sq. Ft. | 0 |
| Fast-Food Restaurant | Sq. Ft. | 0 |
| Car Wash | Sq. Ft. | 1,733 |
| Manufacturing Uses | Variable | Total Floor Area |
| Industrial Park | Sq. Ft. | 0 |
| Manufacturing | Sq. Ft. | 0 |
| General Light Industry | Sq. Ft. | 0 |
| Warehouse | Sq. Ft. | 0 |
| Public/Institutional | Variable | Total Floor Area |
| Public/Institutional | Sq. Ft. | 0 |
| Open Space | Sq. Ft. | 0 |

Table 2: Projected Utility Consumption and Generation

Summary of Project Impacts - Results of analysis identified below. No modifications should be made to this Table.

| Utilities Consumption and Generation | Factor | Rates |
|--------------------------------------|--------|-------|
|--------------------------------------|--------|-------|

| Water Consumption | gallons/day | 1,076 |
|------------------------|-------------|-------|
| Sewage Generation | gallons/day | 717 |
| Solid Waste Generation | pounds/day | 316 |

| Project Component | Units of Measure | Consumption | | Projected Consumption |
|------------------------------------|---------------------|----------------|-------------------|--------------------------|
| Residential Uses | No. of Units | Gals. of Water | Variable | Gals./Day |
| Single-Family Residential | 0 | 390.000 | Gals./Day/Unit | 0.0 |
| Medium Density Residential | 0 | 300.000 | Gals./Day/Unit | 0.0 |
| Multiple-Family Residential | 0 | 234.000 | Gals./Day/Unit | 0.0 |
| Mobile Home | 0 | 234.000 | Gals./Day/Unit | 0.0 |
| Office Uses | Sq. Ft. | Gals. of Water | Variable | Gals./Day |
| Office | 0 | 0.300 | Gals./Day/Sq. Ft. | 0.0 |
| Medical Office Building | 0 | 0.300 | Gals./Day/Sq. Ft. | 0.0 |
| Office Park | 0 | 0.300 | Gals./Day/Sq. Ft. | 0.0 |
| Bank/Financial Services | 0 | 0.150 | Gals./Day/Sq. Ft. | 0.0 |
| Commercial Uses | Sq. Ft./Room | Gals. of Water | Variable | Gals./Day |
| Specialty Retail Commercial | 5,785 | 0.150 | Gals./Day/Sq. Ft. | 867.8 |
| Convenience Store | 0 | 0.150 | Gals./Day/Sq. Ft. | 0.0 |
| Movie Theater | 0 | 0.195 | Gals./Day/Sq. Ft. | 0.0 |
| Shopping Center | 0 | 0.495 | Gals./Day/Sq. Ft. | 0.0 |
| Sit-Down Restaurant | 0 | 1.500 | Gals./Day/Sq. Ft. | 0.0 |
| Fast-Food Restaurant | 0 | 0.120 | Gals./Day/Sq. Ft. | 0.0 |
| Car Wash | 1,733 | 0.120 | Gals./Day/Sq. Ft. | 208.0 |
| Manufacturing Uses | Sq. Ft. | Gals. of Water | Variable | Gals./Day |
| Industrial Park | 0 | 0.300 | Gals./Day/Sq. Ft. | 0.0 |
| Manufacturing | 0 | 0.300 | Gals./Day/Sq. Ft. | 0.0 |
| General Light Industry | 0 | 0.300 | Gals./Day/Sq. Ft. | 0.0 |
| Warehouse | 0 | 0.045 | Gals./Day/Sq. Ft. | 0.0 |
| Public/Institutional Use | Sq. Ft. | Gals. of Water | Variable | Gals./Day |
| Public/Institutional | 0 | 0.120 | Gals./Day/Sq. Ft. | 0.0 |
| Open Space | 0 | 0.120 | Gals./Day/Sq. Ft. | 0.0 |
| Total Daily Water Consumption (gal | lons/day) | | | 1,075.7 |

| Project | Units of | : Sewage Genera | | Projected |
|-----------------------------|-----------------|-------------------|-------------------|-------------|
| Component | Measure | Generation | Factor | Consumption |
| Residential Uses | # of Units | Gals. of Effluent | Variable | Gals./Day |
| Single-Family Residential | 0 | 260.000 | Gals./Day/Unit | 0.0 |
| Medium Density Residential | 0 | 200.000 | Gals./Day/Unit | 0.0 |
| Multiple-Family Residential | 0 | 156.000 | Gals./Day/Unit | 0.0 |
| Mobile Home | 0 | 156.000 | Gals./Day/Unit | 0.0 |
| Office Uses | Sq. Ft. | Gals. of Effluent | Variable | Gals./Day |
| Office | 0 | 0.200 | Gals./Day/Sq. Ft. | 0.0 |
| Medical Office Building | 0 | 0.200 | Gals./Day/Sq. Ft. | 0.0 |
| Office Park | 0 | 0.200 | Gals./Day/Sq. Ft. | 0.0 |
| Bank/Financial Services | 0 | 0.100 | Gals./Day/Sq. Ft. | 0.0 |
| Commercial Uses | Sq. Ft./# Rooms | Gals. of Effluent | Variable | Gals./Day |
| Specialty Retail Commercial | 5,785 | 0.100 | Gals./Day/Sq. Ft. | 578.5 |
| Convenience Store | 0 | 0.100 | Gals./Day/Sq. Ft. | 0.0 |
| Movie Theater | 0 | 0.130 | Gals./Day/Sq. Ft. | 0.0 |
| Shopping Center | 0 | 0.330 | Gals./Day/Sq. Ft. | 0.0 |
| Sit-Down Restaurant | 0 | 1.000 | Gals./Day/Sq. Ft. | 0.0 |
| Fast-Food Restaurant | 0 | 0.080 | Gals./Day/Sq. Ft. | 0.0 |
| Car Wash | 1,733 | 0.080 | Gals./Day/Sq. Ft. | 138.6 |
| Manufacturing Uses | Sq. Ft. | Gals. of Effluent | Variable | Gals./Day |
| Industrial Park | 0 | 0.200 | Gals./Day/Sq. Ft. | 0.0 |
| Manufacturing | 0 | 0.200 | Gals./Day/Sq. Ft. | 0.0 |
| General Light Industry | 0 | 0.200 | Gals./Day/Sq. Ft. | 0.0 |
| Warehouse | 0 | 0.025 | Gals./Day/Sq. Ft. | 0.0 |
| Public/Institutional Use | Sq. Ft. | Gals. of Effluent | Variable | Gals./Day |
| Public/Institutional | 0 | 0.096 | Gals./Day/Sq. Ft. | 0.0 |
| Open Space | 0 | 0.096 | Gals./Day/Sq. Ft. | 0.0 |

| Total Daily Sewage Generation (gallons/day) | 717 1 |
|--|-------|
| Total Bally Schage Scheration (gallons/day) | 717.1 |
| Source: Los Angeles County Sanitation Districts. | |
| | |

| Project Component | Units of Measure | Generation Factor | | Projected Generation |
|------------------------------------|---------------------|-------------------|------------------------|-------------------------|
| Residential Uses | # of Units | Lbs.of Waste | Variable | Lbs./Day |
| Single-Family Residential | 0 | 12.23 | Lbs./Day/Unit | 0.0 |
| Medium Density Residential | 0 | 12.23 | Lbs./Day/Unit | 0.0 |
| Multiple-Family Residential | 0 | 12.23 | Lbs./Day/Unit | 0.0 |
| Mobile Home | 0 | 12.23 | Lbs./Day/Unit | 0.0 |
| Office Uses | Sq. Ft. | Lbs.of Waste | Variable | Lbs./Day |
| Office | 0 | 6.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Medical Office Building | 0 | 6.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Office Park | 0 | 6.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Bank/Financial Services | 0 | 6.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Commercial Uses | Sq. Ft./# Rooms | Lbs.of Waste | Variable | Lbs./Day |
| Specialty Retail Commercial | 5,785 | 42.00 | Lbs./Day/1,000 Sq. Ft. | 243.0 |
| Convenience Store | 0 | 42.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Movie Theater | 0 | 6.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Shopping Center | 0 | 6.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Sit-Down Restaurant | 0 | 6.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Fast-Food Restaurant | 0 | 42.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Car Wash | 1,733 | 42.00 | Lbs./Day/1,000 Sq. Ft. | 72.8 |
| Manufacturing Uses | Sq. Ft. | Lbs.of Waste | Variable | Lbs./Day |
| Industrial Park | 0 | 8.93 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Manufacturing | 0 | 8.93 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| General Light Industry | 0 | 8.93 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Warehouse | 0 | 8.93 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Public/Institutional Use | Sq. Ft. | Lbs.of Waste | Variable | Lbs./Day |
| Public/Institutional | 0 | 4.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Open Space | 0 | 3.00 | Lbs./Day/1,000 Sq. Ft. | 0.0 |
| Total Daily Solid Waste Generation | | | | 315.8 |

Projected Utilities Use Version 2021