



## Instructions: General Air Pollution Source Form

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Introduction              | Use the following instructions to help guide you through the <b><i>General Air Pollution Source form</i></b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Who should use this form? | The General Form is for general air pollution sources not covered under other device forms. This form should be submitted with new permit applications and applications to modify or alter existing sources.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Facility Information      | <ul style="list-style-type: none"><li>• <b>BAAQMD Facility ID</b> – The facility ID number is available on any permit or invoice issued by BAAQMD. This can be found in the upper right of the permit or the invoice.<ul style="list-style-type: none"><li>➤ If this application is for a new facility (not currently permitted by BAAQMD), you must also submit <i>Facility Creation Form</i> and <i>Facility Contacts Form</i>.</li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| General Information       | <ul style="list-style-type: none"><li>• <b>BAAQMD Device ID</b> – For existing facilities, the device ID number can be found on the Permit to Operate to the left of the device name (for example: <b>S1</b> General Chemical Operation).</li><li>• <b>Device/Operation Name</b> – This is the name you associate with this operation.</li><li>• <b>Initial/Proposed Date of Operation:</b><ul style="list-style-type: none"><li>○ For new construction, enter the date that you propose will be the initial date of operation.</li><li>○ For a modification of an existing permitted operation, enter the date that you propose the changes to occur.</li><li>○ For an existing operation that is not currently permitted by BAAQMD, enter the date for which the facility initially operated.</li></ul></li><li>• <b>Device/Operation Description</b> – This is your description of the device or operation. This field can be used to distinguish it from other similar devices (e.g. ID numbers, location, make, model, etc.)</li></ul> |
| Process Information       | Submit one form for <u>each</u> operation requiring a Permit to Operate. Select one of the process categories listed under section 3 and then use the references tables in Appendix A to provide the process type and, if applicable, subtype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Combustion Information    | If this operation has a combustion component and a maximum heat input rating of 10 MMBTU/hr or greater, you must submit a Combustion Form with your application instead of filling out section 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Material Usage            | <p>If more than one material is used in this operation, submit the additional information on a separate sheet of paper.</p> <p>Only fill out the combustion fuel usage information under section 8 if you filled out section 6. If you are submitting a Combustion Form instead of filling out section 6, leave section 8 blank.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Still need help?          | <b>Contact the Engineering Division:</b> (415) 749-4990<br><a href="mailto:permits@baaqmd.gov">permits@baaqmd.gov</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



# Bay Area Air Quality Management District

## GENERAL AIR POLLUTION SOURCE FORM

This form is for general air pollution sources. Use specific forms when applicable.  
All fields are required unless otherwise noted. Please type or print.

Email to: [permits@baaqmd.gov](mailto:permits@baaqmd.gov)

Mail to: BAAQMD

Engineering Division  
375 Beale Street, Suite 600  
San Francisco, CA 94105

Tel: (415) 749-4990

### 1. Facility Information

|                                            |                                               |
|--------------------------------------------|-----------------------------------------------|
| Facility Name                              | BAAQMD Facility ID (Existing facilities only) |
|                                            |                                               |
| Facility Address (Street address and city) |                                               |
|                                            |                                               |

### 2. General Information

|                                  |                                    |
|----------------------------------|------------------------------------|
| BAAQMD Device ID (If applicable) |                                    |
|                                  |                                    |
| Device/Operation Name            | Initial/Proposed Date of Operation |
|                                  |                                    |
| Device/Operation Description     |                                    |
|                                  |                                    |

### 3. Process Information

Select which process category is most applicable:

- |                                            |                                     |                                             |
|--------------------------------------------|-------------------------------------|---------------------------------------------|
| <input type="radio"/> Chemical             | <input type="radio"/> Landfill      | <input type="radio"/> Petroleum             |
| <input type="radio"/> Food and Agriculture | <input type="radio"/> Metallurgical | <input type="radio"/> Waste Water Treatment |
| <input type="radio"/> Fugitives            | <input type="radio"/> Mineral       | <input type="radio"/> Miscellaneous         |

Use the reference tables in Appendix A to provide the type and sub-type (if applicable):

|      |          |
|------|----------|
| Type | Sub-type |
|      |          |

### 4. Operating Schedule – Select “Continuous” or specify specific schedule in the 4 columns

|                                        |                   |                   |           |            |
|----------------------------------------|-------------------|-------------------|-----------|------------|
| Continuous<br><input type="checkbox"/> | Maximum hours/day | Typical hours/day | Days/week | Weeks/year |
|                                        |                   |                   |           |            |

### 5. Operation Information

|                                     |                          |                     |
|-------------------------------------|--------------------------|---------------------|
| Batch Or Cycle Time (If applicable) | Idle Time Between Cycles |                     |
| minutes                             | minutes                  |                     |
| Equipment Manufacturer (Make)       |                          | Equipment Model     |
|                                     |                          |                     |
| Wet Gas Flow Rate                   | Temperature              | Water Vapor Content |
| cfm                                 | °F                       | volume %            |

### 6. Combustion Information

- Complete this section if the device has a combustion component and maximum heat input rating is below 10 MMBTU/hr. If the heat content is greater than 10 MMBTU/hr, complete a Combustion Form instead of this section.

Does the combustion component have:

- |                         |                                                                     |                          |
|-------------------------|---------------------------------------------------------------------|--------------------------|
| Overfire Air?           | <input type="radio"/> Yes: _____ % (Overfire air percent)           | <input type="radio"/> No |
| Flue gas recirculation? | <input type="radio"/> Yes: _____ % (Flue gas recirculation percent) | <input type="radio"/> No |
| Air preheat?            | <input type="radio"/> Yes: _____ °F (Temperature)                   | <input type="radio"/> No |
| Low NOx burners?        | <input type="radio"/> Yes                                           | <input type="radio"/> No |



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### Optional Combustion Information

| Maximum Flame Temperature | Wet Gas Flow Rate  | Combustion Products Temperature |
|---------------------------|--------------------|---------------------------------|
| °F                        | acfm               | °F                              |
| Dry Volume Percent        | Wet Volume Percent | Excess Air Percent              |
| %                         | %                  | %                               |

### 7. Material Usage – Use the reference tables in Appendix B for Material Codes, Usage Units, and Basis Codes

| Material Name        | Material Code        |                                         |
|----------------------|----------------------|-----------------------------------------|
|                      |                      |                                         |
| Maximum Annual Usage | Material Usage Units | Maximum Operating Rate (usage units/hr) |
|                      |                      |                                         |

#### Typical % of Annual Total

| Dec-Feb | Mar-May | Jun-Aug | Sep-Nov |
|---------|---------|---------|---------|
|         |         |         |         |

#### Material Emission Factors

| Pollutant                          | Emission Factors (lb/unit) | Basis Code |
|------------------------------------|----------------------------|------------|
| Particulates                       |                            |            |
| Organics                           |                            |            |
| Nitrogen Oxides (NO <sub>x</sub> ) |                            |            |
| Sulfur Dioxide                     |                            |            |
| Carbon Monoxide                    |                            |            |
| Other:                             |                            |            |
| Other:                             |                            |            |

### 8. Combustion Fuel Usage – Complete if you filled out section 6

| Material Name         | Material Code        | Maximum Annual Usage | Material Usage Units       |
|-----------------------|----------------------|----------------------|----------------------------|
|                       |                      |                      |                            |
| Fuel Consumption Rate | Fuel Rate Units      | Higher Heating Value | Higher Heating Value Units |
|                       |                      |                      |                            |
| Sulfur Content        | Sulfur Content Units | Nitrogen Content     | Nitrogen Content Units     |
|                       |                      |                      |                            |

#### Typical % of Annual Total

| Dec-Feb | Mar-May | Jun-Aug | Sep-Nov |
|---------|---------|---------|---------|
|         |         |         |         |

#### Combustion Fuel Emission Factors

| Pollutant                          | Emission Factors (lb/unit) | Basis Code |
|------------------------------------|----------------------------|------------|
| Particulates                       |                            |            |
| Organics                           |                            |            |
| Nitrogen Oxides (NO <sub>x</sub> ) |                            |            |
| Sulfur Dioxide                     |                            |            |
| Carbon Monoxide                    |                            |            |
| Other:                             |                            |            |
| Other:                             |                            |            |



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**9. Emission Train information**

With regard to emission flow, what abatement devices and/or emission points are *immediately* downstream of this source?

Abatement Devices    A \_\_\_\_\_ A \_\_\_\_\_ A \_\_\_\_\_ Emission Points    P \_\_\_\_\_ P \_\_\_\_\_ P \_\_\_\_\_

➤ Complete an Abatement Device Form and/or Emission Point Form for each connection.

**10. Certification/Signature of person responsible for the information on this form**

**I hereby certify that I am authorized to complete this form for the facility and that all information contained herein is true and correct.**

|           |       |                      |
|-----------|-------|----------------------|
| Name      | Title |                      |
|           |       |                      |
| Signature | Date  | Phone (xxx-xxx-xxxx) |
|           |       |                      |

**Table A1. Chemical Process Codes**

| TYPE                              | SUB-TYPE                                    | CODE | TYPE                        | SUB-TYPE                          | CODE |
|-----------------------------------|---------------------------------------------|------|-----------------------------|-----------------------------------|------|
| Ammonia Sulfate Manufacturing     | Coke Oven By Products                       | 7018 | Sulfate Pulping             | Liquor Oxidation Tower            | 7084 |
|                                   | NH3 H2SO4 Process                           | 7016 |                             | Multiple Effect Evaporation       | 7085 |
| Calcining                         | Cement, Lime, or Coke Only - Calcining Kiln | 7024 |                             | Smelt Dissolve Tank               | 7086 |
|                                   | Rotary Kiln                                 | 7096 |                             | Turpentine Condenser              | 7087 |
|                                   | Other                                       | 7024 |                             | Washer Screen                     | 7088 |
| Claus                             | Modified 2 Stage                            | 7055 |                             | Other                             | 7089 |
|                                   | Modified 3 Stage                            | 7056 | Sulfite Pulping             | Digester                          | 7090 |
|                                   | Modified 4 Stage                            | 7057 |                             | Evaporator                        | 7091 |
| Coating/Solvent Manufacturing     |                                             | 7011 |                             | Liquor Recovery                   | 7092 |
| Ethylene Dichloride Manufacturing | Direct Chlorination                         | 7038 |                             | Pulp Digester                     | 7093 |
|                                   | Oxy Chlorination                            | 7039 |                             | Smelt Tank                        | 7094 |
| Evaporation                       | Brine                                       | 7023 |                             | Other                             | 7095 |
|                                   | Other                                       | 7110 | Sulfuric Acid Manufacturing | Chamber Process                   | 7047 |
| Fabric Manufacturing              | Bleaching                                   | 7040 |                             | Contact Process                   | 7048 |
|                                   | Yarn Prep                                   | 7041 |                             | Regeneration                      | 7049 |
|                                   | Other                                       | 7042 |                             | Other Sulfuric Acid Manufacturing | 7050 |
| Hydrochloric Acid Manufacturing   | Regeneration                                | 7148 | Other Chemical Process      | Air Blow ML Brine                 | 7019 |
|                                   | Other                                       | 7130 |                             | Ammoniating                       | 7020 |
| Liquefaction                      | Diaphragm                                   | 7053 |                             | Biological Oxidation              | 7131 |
|                                   | Merc Cell                                   | 7054 |                             | Bodying Oil                       | 7021 |
| Nitric Acid Manufacturing         | Concentrators                               | 7052 |                             | Boiling Tub                       | 7022 |
|                                   | Paraxylene Generation                       | 7051 |                             | Carbon Black Manufacturing        | 7030 |
|                                   | Other                                       | 7063 |                             | Carbon Dioxide Plant              | 7132 |
| Phosphoric Acid Manufacturing     | Thermal                                     | 7065 |                             | Carpet Operation                  | 7031 |
|                                   | Wet                                         | 7066 |                             | Caulking                          | 7032 |
|                                   | Other                                       | 7147 |                             | Chemical Reaction                 | 7998 |
| Reactor                           | Greater Than 1000 Gallons                   | 7173 |                             | Condensing                        | 7033 |
|                                   | Less Than 1000 Gallons                      | 7073 |                             | Cooking                           | 7034 |
|                                   | Nitration - Less Than 1000 Gallons          | 7062 |                             | Creosote Pressure Treating        | 7035 |
| Rubberized Fabric Manufacturing   | Hot Melt Coating                            | 7075 |                             | Crystallizing                     | 7114 |
|                                   | Impregnation                                | 7076 |                             | Cyclohex                          | 7036 |
|                                   | Wet Coating                                 | 7077 |                             | Dipping/Cleaning Tank             | 7151 |
|                                   | Other                                       | 7078 |                             | Distillation                      | 7037 |
| Separation                        | Oil/Water                                   | 7103 |                             | Etching                           | 7133 |
|                                   | Other                                       | 7098 |                             | Feed Holding Tank                 | 7152 |
| Sodium Carbonate Processing       | Solvay Handling                             | 7059 |                             | Gas Collection System             | 7158 |
|                                   | Solvay NH3 recovery                         | 7058 |                             | Gas Purging                       | 7044 |
|                                   | Trona Calcining                             | 7060 |                             | GHG Fab                           | 7350 |
|                                   | Trona Dryer                                 | 7061 |                             | Gypsum Pond                       | 7046 |
| Sulfate Pulping                   | Blow Tank Accumulator                       | 7082 |                             | Laboratory                        | 7144 |
|                                   | Fluidbed Calciner                           | 7083 |                             | Miscellaneous Compounds Fab       | 7351 |

| TYPE                   | SUB-TYPE                | CODE | TYPE                   | SUB-TYPE                     | CODE |
|------------------------|-------------------------|------|------------------------|------------------------------|------|
| Other Chemical Process | Neutralizing            | 7097 | Other Chemical Process | Regenerator                  | 7074 |
|                        | Photographic Equipment  | 7154 |                        | Scrubber                     | 7080 |
|                        | Pressure Treating       | 7067 |                        | Seelite Exhaust              | 7081 |
|                        | Prilling                | 7068 |                        | Sterilization                | 7146 |
|                        | Process Tank            | 7153 |                        | Tank/Drum/Container Cleaning | 7157 |
|                        | Pulpboard Manufacturing | 7071 |                        | Other                        | 7999 |
|                        | Pyrolysis               | 7072 |                        |                              |      |

**Table A2. Food and Agriculture Process Codes**

| TYPE            | SUB-TYPE       | CODE | TYPE                            | SUB-TYPE           | CODE |
|-----------------|----------------|------|---------------------------------|--------------------|------|
| Aging           |                | 1028 | Screening                       |                    | 1017 |
| Brewing         |                | 1001 | Smoking                         |                    | 1013 |
| Cleaning        |                | 1022 | Sulfurizing                     |                    | 1033 |
| Cooking         |                | 1003 | Other Food Agricultural Process | Conveyors          | 1021 |
| Cooling/stoning |                | 1020 |                                 | Dehydration/Drying | 1026 |
| Dryer           | Rotary         | 1016 |                                 | Grinding           | 1014 |
|                 | Spray          | 1019 |                                 | Milling/turning    | 1024 |
|                 | Other Dryer    | 1023 |                                 | Mixing             | 1036 |
| Extraction      | Mechanical     | 1030 |                                 | Oven               | 1025 |
|                 | Solvent        | 1029 |                                 | Packaging          | 1035 |
| Fermentation    |                | 1027 |                                 | Pressing           | 1031 |
| Kiln            | Direct Fired   | 1007 |                                 | Shipping/Receiving | 1018 |
|                 | Indirect Fired | 1010 |                                 | Sterilization      | 1032 |
| Roaster         | Direct Fired   | 1008 |                                 | Storage            | 1034 |
|                 | Indirect Fired | 1011 |                                 | Other              | 1999 |

**Table A3. Fugitives Process Codes**

| TYPE               | SUB-TYPE               | CODE | TYPE               | SUB-TYPE                 | CODE |
|--------------------|------------------------|------|--------------------|--------------------------|------|
| Refinery Fugitives | Flaring and Blowdown   | 9010 | Refinery Fugitives | Vacuum Products          | 9030 |
|                    | Pressure Relief Valves | 9070 |                    | Valves and Flanges       | 9050 |
|                    | Process Drains         | 9080 |                    | Wastewater               |      |
|                    | Process Vessels        | 9040 |                    | Wharf and Ship Emissions | 9090 |
|                    | Pumps and Compressors  | 9060 | Other Fugitives    |                          | 9000 |

**Table A4. Landfill Process Codes**

| TYPE                       | SUB-TYPE                            | CODE | TYPE                                   | SUB-TYPE | CODE |
|----------------------------|-------------------------------------|------|----------------------------------------|----------|------|
| Landfill Material Handling | Bulldozing Compacting<br>Excavating | 8100 | Landfill with Gas Collection System    |          | 7145 |
|                            | Dumping                             | 8110 | Landfill without Gas Collection System |          | 7159 |

**Table A5. Metallurgical Process Codes**

| TYPE                  | SUB-TYPE          | CODE | TYPE                    | SUB-TYPE      | CODE |
|-----------------------|-------------------|------|-------------------------|---------------|------|
| Secondary Metal Dryer | Calcining Kiln    | 3002 | Secondary Metal Furnace | Bake          | 3030 |
|                       | Concentrate Dryer | 3003 |                         | Blast Furnace | 3007 |
|                       | Other             | 3005 |                         | Casting       | 3008 |

| TYPE                    | SUB-TYPE                              | CODE | TYPE                    | SUB-TYPE                                            | CODE |
|-------------------------|---------------------------------------|------|-------------------------|-----------------------------------------------------|------|
| Secondary Metal Furnace | Chlorination                          | 3009 | Secondary Metal Process | Foil Converting                                     | 3040 |
|                         | Crucible                              | 3009 |                         | Foil Rolling                                        | 3041 |
|                         | Cupola                                | 3010 |                         | Galvanizing                                         | 3042 |
|                         | Electric Arc                          | 3012 |                         | Grinding                                            | 3043 |
|                         | Electric Induction                    | 3016 |                         | Honing                                              | 3044 |
|                         | Flux                                  | 3013 |                         | Lead Oxide Manufacturing                            | 3045 |
|                         | Heat Treating                         | 3014 |                         | Machine shop operations                             | 3067 |
|                         | Horizontal Muffle Furnace             | 3015 |                         | Metal Shredding less than or equal to 150 tons/hour | 3068 |
|                         | Open Hearth                           | 3017 |                         | Metal Shredding more than 150 tons/hour             | 3068 |
|                         | Open Hearth - Furnace w/ Oxygen Lance | 3018 |                         | Milling/turning                                     | 3061 |
|                         | Pot furnace                           | 3019 |                         | Mixing                                              | 3048 |
|                         | Retort                                | 3020 |                         | Nondestructive Coating                              | 3064 |
|                         | Reverberatory - other                 | 3021 |                         | Oxide kiln                                          | 3004 |
|                         | Reverberatory - sweat                 | 3022 |                         | Paste Mixer Lead Battery                            | 3049 |
|                         | Rotary - non-reverberatory            | 3023 |                         | Pickling                                            | 3072 |
|                         | Smelt Crucible                        | 3024 |                         | Pitch Treating Furnace Electrode Manufacturing      | 3050 |
|                         | Smelt Reverberatory                   | 3025 |                         | Plasma Metal Application                            | 3081 |
|                         | Sweating                              | 3026 |                         | Plating (not chrome)                                | 3051 |
|                         | Other Secondary Metal Furnace         | 3027 |                         | Plating Dec Chrome-Hexavalent(<=500000amphr)        | 3070 |
| Secondary Metal Process | Abrasives blasting                    | 3062 |                         | Plating Dec Chrome-Hexavalent(>500000amphr)         | 3080 |
|                         | Alodyning                             | 3078 |                         | Plating dec chrome-trivalent                        | 3079 |
|                         | Annealing                             | 3029 |                         | Plating hard chrome-hexavalent                      | 3071 |
|                         | Annealing Continuous                  | 3065 |                         | Reaming                                             | 3052 |
|                         | Anodizing                             | 3063 |                         | Refining                                            | 3073 |
|                         | Buffing/polishing                     | 3069 |                         | Rolling                                             | 3053 |
|                         | Can Making                            | 3031 |                         | Rotary - Reverberatory                              | 3059 |
|                         | Casting                               | 3046 |                         | Sand handling                                       | 3054 |
|                         | Chemical Cleaning                     | 3034 |                         | Sanding                                             | 3055 |
|                         | Conveyors                             | 3076 |                         | Sawing                                              | 3056 |
|                         | Crushing                              | 3068 |                         | Screening                                           | 3077 |
|                         | Drawing                               | 3035 |                         | Sintering                                           | 3060 |
|                         | Drilling                              | 3036 |                         | Soldering                                           | 3075 |
|                         | Extruding                             | 3037 |                         | Storage                                             | 3057 |
|                         | Fabricating                           | 3047 |                         | Ventilation                                         | 3074 |
|                         | Finishing                             | 3038 |                         | Welding                                             | 3066 |
|                         | Finishing - SoakPit                   | 3039 |                         | Other                                               | 3999 |

Table A6. Mineral Process Codes

| TYPE            | SUB-TYPE | CODE | TYPE           | SUB-TYPE   | CODE |
|-----------------|----------|------|----------------|------------|------|
| Asphalt blowing |          | 4019 | Asphalt Mixing | Batch      | 4077 |
| Asphalt dipping |          | 4020 |                | Continuous | 4078 |

| TYPE                | SUB-TYPE                                    | CODE | TYPE                  | SUB-TYPE                    | CODE |
|---------------------|---------------------------------------------|------|-----------------------|-----------------------------|------|
| Asphalt spraying    |                                             | 4021 | Mining/Quarry         | Primary Crushing Grinding   | 4053 |
| Concrete Batching   | Asbestos/Cement Products                    | 4028 |                       | Secondary Crushing Grinding | 4054 |
|                     | Mixer                                       | 4081 |                       | Stockpiles                  | 4055 |
|                     | Other Concrete Batching                     | 4029 |                       | Stripping                   | 4056 |
| Glass Manufacturing | Batching                                    | 4038 |                       | Tailing Piles               | 4059 |
|                     | Furnace Soda Lime                           | 4016 |                       | Tailings                    | 4060 |
|                     | Material Receiving                          | 4039 |                       | Tertiary Crushing Grinding  | 4069 |
|                     | Material Storage                            | 4040 |                       | Ventilating                 | 4062 |
|                     | Mixing                                      | 4041 |                       | Other Mining                | 4068 |
|                     | Molten Holding Tanks                        | 4042 | Other Mineral Process | Abrasives blasting          | 4073 |
|                     | Other                                       | 4043 |                       | Blasting                    | 4023 |
| Mineral Dryer       | Asphalt Aggregate Drying                    | 4006 |                       | Blow Chamber                | 4024 |
|                     | Calcimatic Kiln                             | 4002 |                       | Cement Grinding             | 4044 |
|                     | Calcining                                   | 4075 |                       | Conveyors                   | 4030 |
|                     | Cement, Lime, or Coke Only - Calcining Kiln | 4082 |                       | Cooling                     | 4031 |
|                     | Coke Dryer                                  | 4003 |                       | Crushing                    | 4032 |
|                     | Curing oven                                 | 4004 |                       | Drying Open Air             | 4033 |
|                     | Fluidized Bed Kiln                          | 4005 |                       | Electric Arc Melting        | 4034 |
|                     | Rotary dryer                                | 4006 |                       | Feed/Surge/Weigh Bins       | 4079 |
|                     | Rotary Kiln                                 | 4070 |                       | Fiberizing                  | 4035 |
|                     | Vertical Kiln                               | 4007 |                       | Forming Line Fiberglass     | 4036 |
|                     | Other Mineral Dryer                         | 4008 |                       | Furnace Room - Venting      | 4037 |
| Mineral Furnace     | Cupola                                      | 4010 |                       | Glass Enamel Spraying       | 4074 |
|                     | Electric                                    | 4012 |                       | Grinding                    | 4044 |
|                     | Electric Induction                          | 4011 |                       | Hold/Shakeout               | 4045 |
|                     | Reverberatory - other                       | 4013 |                       | Hydrator                    | 4046 |
|                     | Reverberatory Recupex                       | 4014 |                       | Loading/Unloading           | 4080 |
|                     | Reverberatory Regenerative                  | 4015 |                       | Milling                     | 4047 |
|                     | Rotary - non-reverberatory                  | 4071 |                       | Mixer                       | 4081 |
|                     | Other Mineral Furnace                       | 4017 |                       | Packaging                   | 4022 |
| Mining/Quarry       | Blasting                                    | 4023 |                       | Road Surfacing              | 4063 |
|                     | Cobbing                                     | 4048 |                       | Screening                   | 4064 |
|                     | Cobbing Open Pit                            | 4050 |                       | Sintering                   | 4065 |
|                     | Drilling                                    | 4051 |                       | Stone Cutting               | 4066 |
|                     | Loading/Unloading                           | 4061 |                       | Storage - Contained         | 4067 |
|                     | Open Pit Blasting                           | 4049 |                       | Storage - Open              | 4076 |
|                     | Ore Concentrating                           | 4052 |                       | Other                       | 4099 |

Table A7. Miscellaneous Process Codes

| TYPE               | SUB-TYPE             | CODE | TYPE             | SUB-TYPE | CODE |
|--------------------|----------------------|------|------------------|----------|------|
| Abrasives Blasting |                      | 7109 | Cooling          | Pond     | 7105 |
| Composting         | Aerated Static Piles | 7165 |                  | Tower    | 7104 |
|                    | In Vessel            | 7166 |                  | Other    | 7106 |
|                    | Windrows             | 7164 | Crematory Retort |          | 8011 |

| TYPE                        | SUB-TYPE               | CODE | TYPE                                | SUB-TYPE                         | CODE |
|-----------------------------|------------------------|------|-------------------------------------|----------------------------------|------|
| Dehydrating                 |                        | 7006 | Material Handling                   | Pelletizing                      | 7115 |
| Dryer                       | Pigment dryer          | 7002 |                                     | Pumping Facility Organic Liquids | 7017 |
|                             | Spray dryer            | 7003 |                                     | Sanding                          | 7012 |
|                             | Veneer dryer           | 7004 |                                     | Screening Separating             | 8008 |
|                             | Other Dryer            | 7005 |                                     | Shredding Mangling Cutting       | 8009 |
| Expanders                   |                        | 8003 |                                     | Storage                          | 7014 |
| Extruders                   |                        | 8004 |                                     | Other Material Handling          | 7013 |
| Insulation stripping - wire |                        | 7143 | Material Working Equipment          |                                  | 8005 |
| Latex Dipping               |                        | 7170 | Molding/Curing                      | Plastics                         | 7111 |
| Material Handling           | Coke Storage Open      | 8007 |                                     | Rubber                           | 7112 |
|                             | Conveying              | 8010 |                                     | Other                            | 7113 |
|                             | Drying                 | 7007 | Oil Water Separator                 | Controlled                       |      |
|                             | Granulating            | 7045 | Oven                                |                                  | 8002 |
|                             | Grinding               | 7008 | Paper/paperboard handling equipment |                                  | 8006 |
|                             | Loading - Storage Tank | 7009 | Sawmill operation                   |                                  | 7079 |
|                             | Loading - Tank Car     | 7010 | Surface Coating Operation           |                                  | 8001 |
|                             | Loading/Unloading      |      | Waste Material Grinding             |                                  | 8012 |
|                             | Milling                | 7108 | Wastewater Storage Ponds            |                                  | 7161 |
|                             | Mixing                 | 7011 | Woodworking                         |                                  | 7107 |
|                             | Packaging              | 7116 | Other Miscellaneous Process         |                                  | 8999 |

Table A8. Petroleum Refining Process Codes

| TYPE                      | SUB-TYPE                                    | CODE | TYPE                             | SUB-TYPE       | CODE |
|---------------------------|---------------------------------------------|------|----------------------------------|----------------|------|
| Alkylation                |                                             | 5030 | Fluid Coking                     | Cooling        | 5008 |
| Asphalt Oxidizer          |                                             | 5001 |                                  | General        | 5009 |
| Blow Down System          | Controlled                                  | 5002 |                                  | Storage        | 5010 |
|                           | Uncontrolled                                | 5003 |                                  | Transportation | 5011 |
| Catalytic reforming       |                                             | 5004 | Hydrocracking                    |                | 5021 |
| Chemical Treating         |                                             | 5023 | Hydrogen manufacturing           |                | 5026 |
| Coke storage piles (open) |                                             | 5038 | Hydrotreating/ hydrofining       |                | 5022 |
| Cooling Tower             |                                             | 5005 | Isomerization                    |                | 5031 |
| Delayed coking            |                                             | 5018 | Marine Loading/ Unloading Berths |                | 5039 |
| Distillation              | Crude Over 1000 Barrels Per Hr              | 5027 | Oil Water Separator              | Controlled     | 5017 |
|                           | Crude Under or Equal to 1000 Barrels Per Hr | 5027 | Polymerization                   |                | 5024 |
|                           | Vacuum                                      | 5032 | Process Drain                    | Controlled     | 5012 |
|                           | Other Distillation                          | 5028 |                                  | Uncontrolled   | 5013 |
| Flexicoking               |                                             | 5034 | Sludge converter                 |                | 5014 |
| Fluid cat cracker         |                                             | 5007 | Solvent extraction               |                | 5029 |

| TYPE                 | SUB-TYPE                     | CODE | TYPE                             | SUB-TYPE                            | CODE |
|----------------------|------------------------------|------|----------------------------------|-------------------------------------|------|
| Sour water stripping |                              | 5037 | Wastewater Treatment             | Process Tank                        | 5036 |
| Sulfur Removal       |                              | 5035 |                                  | Pond                                | 5033 |
| Thermal Processing   | Cracking                     | 5019 | Other Conversion                 |                                     | 5025 |
|                      | Other                        | 5020 | Other Petroleum Refining Process | Other/not specified                 | 5999 |
| Vacuum Jet           | Controlled                   | 5015 |                                  | Other/not specified (coke), G1      | 5993 |
|                      | Uncontrolled                 | 5016 |                                  | Other/not specified (feedstock), G1 | 5995 |
| Wastewater Treatment | Air Stripping/DAF Processing | 5040 |                                  | Other/not specified, G1             | 5997 |

**Table A9. Waste Water Treatment Process Codes**

| TYPE                  | SUB-TYPE | CODE | TYPE                           | SUB-TYPE | CODE |
|-----------------------|----------|------|--------------------------------|----------|------|
| Digester              |          | 7290 | Secondary Clarifier            |          | 7250 |
| Disinfection          |          | 7270 | Secondary Treatment            |          | 7240 |
| Flow Equalization     |          | 7230 | Sludge Handling Process        |          | 7280 |
| Preliminary Treatment |          | 7210 | Tertiary Treatment             |          | 7260 |
| Primary Treatment     |          | 7220 | Wastewater Treatment Operation |          | 7200 |
| Reclamation           |          | 7300 |                                |          |      |

**Table B1. Basis Codes** – For Emission Factor Tables

| CODE | BASIS                 | CODE | BASIS                             | CODE | BASIS            |
|------|-----------------------|------|-----------------------------------|------|------------------|
| 1    | BAAQMD Regulation 9-7 | 5    | EPA/CARB Certification            | 9    | Other            |
| 2    | CARB Certification    | 6    | EPA Certification                 | 10   | Other Literature |
| 3    | CATEF                 | 7    | Manufacturer/Vendor Specification | 11   | Regulation       |
| 4    | EPA AP-42             | 8    | Material Balance                  | 12   | Source Test      |

**Table B2. Material Codes** – Listed Alphabetically

| CODE | MATERIAL NAME                      | UNITS        | CODE | MATERIAL NAME                            | UNITS        |
|------|------------------------------------|--------------|------|------------------------------------------|--------------|
| 567  | Abrasive blasting material - other | tons         | 803  | Aqueous coating                          | gallons      |
| 455  | Acetone                            | gallons      | 710  | Arsine                                   | cft          |
| 456  | Acetonitrile                       | thou gallons | 30   | Asphalt                                  | tons         |
| 439  | Acid - waste                       | thou barrels | 380  | Asphalt emulsion                         | gallons      |
| 697  | Acrylamide                         | lbs          | 31   | Asphaltic concrete                       | tons         |
| 268  | Acrylic fibers                     | tons         | 32   | Auto body components                     | tons         |
| 459  | Adhesive - other/not specified     | tons         | 569  | Bakery products with yeast               | tons         |
| 459  | Adhesive - other/not specified     | thou gallons | 133  | Barley - beer                            | tons         |
| 504  | Air                                | cft          | 36   | Barley - feed                            | tons         |
| 13   | Alcohol - amine                    | thou gallons | 38   | Barley - grain, non-feed                 | tons         |
| 389  | Alkylate                           | thou barrels | 39   | Beer                                     | thou gallons |
| 470  | Alum                               | tons         | 434  | Beryllium metal                          | lbs          |
| 388  | Aluminum                           | tons         | 815  | Biodiesel (B100)                         | thou gallons |
| 832  | Aluminum hydrate                   | tons         | 816  | Biodiesel (B20-blend)                    | thou gallons |
| 18   | Aluminum ore - bauxite             | tons         | 43   | Bituminous coal                          | tons         |
| 475  | Aluminum oxide abrasive            | tons         | 862  | Bleach (up to 12.5% sodium hypochlorite) |              |
| 20   | Amide                              | thou gallons | 791  | Bodies - human                           | number of    |
| 21   | Amine - other/not specified        | thou gallons | 46   | Bricks                                   | tons         |
| 22   | Ammonia                            | tons         | 341  | Bronze                                   | tons         |
| 22   | Ammonia                            | thou gallons | 603  | Buffered oxide etchant                   | gallons      |
| 469  | Ammonium fluoride                  | tons         | 242  | Bunker C fuel oil                        | thou gallons |
| 471  | Ammonium hydroxide                 | tons         | 282  | Butadiene rubber                         | tons         |
| 24   | Ammonium sulfate                   | tons         | 416  | Butane                                   | thou gallons |
| 498  | Animal carcasses                   | tons         | 57   | Candy/confectionary                      | tons         |
| 813  | Aqueous cleaning solution          | gallons      | 866  | Canola Oil                               | gallons      |

| CODE | MATERIAL NAME                            | UNITS        | CODE | MATERIAL NAME                         | UNITS        |
|------|------------------------------------------|--------------|------|---------------------------------------|--------------|
| 59   | Carbon black                             | tons         | 754  | Cremation Case (container and corpse) | tons         |
| 467  | Carbon dioxide                           | tons         | 89   | Crude oil                             | thou gallons |
| 235  | Carbon monoxide                          | Mcf          | 95   | Dairy products - other/not specified  | tons         |
| 60   | Carbon tetrachloride                     | thou gallons | 343  | Delayed coke product, refinery        | tons         |
| 342  | Cat reformer fresh feed, refinery        | thou barrels | 73   | Detergent                             | tons         |
| 431  | Caustic waste                            | thou barrels | 53   | Di-acid anhydrides, C3+               | thou gallons |
| 65   | Cement                                   | tons         | 97   | Diatomaceous earth                    | tons         |
| 64   | Cement - dry process mfg                 | tons         | 98   | Diesel fuel                           | thou gallons |
| 361  | Cement - wet process mfg                 | tons         | 98   | Diesel fuel                           | gallons      |
| 66   | Ceramic                                  | tons         | 485  | Diethanolamine                        | thou gallons |
| 68   | Charcoal/bone char                       | tons         | 578  | Diethylene glycol monobutyl ether     | thou gallons |
| 708  | Chevron refinery fuel gas                | Mcf          | 493  | Digester gas                          | Mcf          |
| 69   | Chlor-alkali                             | tons         | 99   | Dimethyl formamide                    | thou gallons |
| 70   | Chlorine                                 | tons         | 315  | Distillate oil                        | thou gallons |
| 560  | Chrome (alodyning solution)              | gallons      | 864  | Distillers Corn Oil                   | gallons      |
| 477  | Chrome plating current                   | amp-hours    | 600  | DuPont Lacquer Thinner                | thou gallons |
| 826  | Chromium                                 | lbs          | 788  | Electrical motors, windings, coils    | lbs          |
| 72   | Clay                                     | tons         | 101  | Enamel - general                      | thou gallons |
| 74   | Cleaning chemicals - other/not specified | thou gallons | 440  | Epoxy coating                         | thou gallons |
| 785  | Clinker                                  | tons         | 574  | Epoxy resin                           | thou gallons |
| 568  | Cocoa beans                              | tons         | 102  | Esters - other/not specified          | thou gallons |
| 78   | Coffee - beans/grounds                   | tons         | 664  | Ethanolamine                          | thou gallons |
| 80   | Coke                                     | tons         | 104  | Ethyl acetate                         | thou gallons |
| 346  | Coker fresh feed                         | thou barrels | 105  | Ethyl alcohol                         | thou gallons |
| 345  | Coker product, refinery                  | tons         | 501  | Ethyl silicate                        | gallons      |
| 83   | Concrete                                 | tons         | 536  | Ethylene                              | lbs          |
| 572  | Contaminated soil vapor                  | cft          | 561  | Ethylene glycol                       | thou gallons |
| 351  | Cooking oil                              | thou gallons | 487  | Ethylene oxide                        | lbs          |
| 351  | Cooking oil                              | gallons      | 108  | Explosives                            | tons         |
| 84   | Copper                                   | tons         | 344  | FCC fresh feed, refinery              | gallons      |
| 545  | Copper slag grit abrasive                | tons         | 110  | Feed grains                           | tons         |
| 537  | Copper sulfate                           | tons         | 408  | Feldspar                              | lbs          |

| CODE  | MATERIAL NAME                                | UNITS        | CODE | MATERIAL NAME                                | UNITS          |
|-------|----------------------------------------------|--------------|------|----------------------------------------------|----------------|
| 197   | Ferro alloys - other/not specified           | tons         | 146  | H2SO4 - other/not specified                  | tons           |
| 336   | Fertilizer - other/not specified             | tons         | 444  | Heterogeneous catalyst                       | tons           |
| 120   | Fiberglass                                   | tons         | 304  | Hogged wood                                  | tons           |
| 375   | Fireproof material                           | tons         | 538  | Hospital waste - non-pathological            | tons           |
| 121   | Fish meal - fresh fish                       | tons         | 748  | Hydrobromic acid                             | tons           |
| 123   | Flyash                                       | tons         | 318  | Hydrocarbon - mixtures, other/not specified  | thou gallons   |
| 319   | Food products - other/not specified          | tons         | 149  | Hydrochloric acid                            | tons           |
| 830   | Food waste                                   | tons         | 150  | Hydrofluoric acid                            | tons           |
| 415   | Fresh water                                  | thou gallons | 759  | Hydrogen (gas)                               | Mcf            |
| 481   | Fruits/vegetables                            | tons         | 714  | Hydrogen Chloride                            | cft            |
| 392   | Fuel oil #2                                  | thou gallons | 713  | Hydrogen Fluoride                            | cft            |
| 10000 | Fugitive                                     |              | 490  | Hydrogen peroxide                            | gallons        |
| 211   | Fully halogenated hydrocarbons               | thou gallons | 758  | Hydrogen plant pressure swing absorption gas | Mcf            |
| 394   | Gas oil                                      | thou gallons | 151  | Hydroxyl amines                              | thou gallons   |
| 198   | Gaseous fuels - H2, etc, other/not specified | Mcf          | 807  | Hypochlorite                                 | lbs            |
| 551   | Gasoline - Unleaded                          | thou gallons | 152  | Ink - general                                | thou gallons   |
| 551   | Gasoline - Unleaded                          | gallons      | 510  | Inorganic acids                              | thou gallons   |
| 130   | Glass                                        | tons         | 822  | Inorganic liquid - other not specified       | thou gallons   |
| 473   | Glass beads - abrasive                       | tons         | 220  | Inorganic pigment                            | tons           |
| 131   | Glycols                                      | thou gallons | 153  | Iron - primary                               | tons           |
| 132   | Gold                                         | tons         | 482  | Iron chloride solution                       | gallons        |
| 109   | Grains - other/not specified                 | tons         | 367  | Iron ore                                     | tons           |
| 244   | Gravel/sand                                  | tons         | 500  | Iron oxide                                   | tons           |
| 135   | Gray iron                                    | tons         | 157  | Isopropyl alcohol                            | thou gallons   |
| 433   | Grease - lubricant                           | tons         | 158  | Jet A Fuel                                   | thou gallons   |
| 805   | Green waste                                  | tons         | 158  | Jet A Fuel                                   | gallons        |
| 136   | Gypsum                                       | tons         | 161  | Lacquer - general                            | thou gallons   |
| 137   | H2SO4 - 93% conversion                       | tons         | 827  | Laminate sheets                              | sq ft          |
| 142   | H2SO4 - 98% conversion                       | tons         | 511  | Landfill gas                                 | Mcf            |
| 143   | H2SO4 - 99.0% conversion                     | tons         | 445  | Latex paint                                  | thou gallons   |
| 144   | H2SO4 - 99.5% conversion                     | tons         | 164  | Lead batteries                               | thou batteries |

| CODE | MATERIAL NAME                  | UNITS           | CODE | MATERIAL NAME                            | UNITS        |
|------|--------------------------------|-----------------|------|------------------------------------------|--------------|
| 166  | Lime                           | tons            | 547  | n-methyl-2-pyrrolidone                   | thou gallons |
| 402  | Limestone                      | tons            | 462  | Offal                                    | tons         |
| 167  | Liquid waste                   | thou gallons    | 352  | Oil - non-fuel, other/not specified      | tons         |
| 160  | LPG                            | thou gallons    | 503  | Oil/water mixture                        | thou gallons |
| 160  | LPG                            | gallons         | 195  | Olefinic hydrocarbons                    | thou gallons |
| 419  | Lube oil                       | thou gallons    | 472  | Oleum                                    | tons         |
| 171  | Magnesium                      | tons            | 54   | Organic acids - C3+                      | thou gallons |
| 824  | Manganese ore                  | tons            | 201  | Organic liquid - other/not specified     | thou gallons |
| 403  | Marble                         | lbs             | 221  | Organic pigment                          | tons         |
| 322  | Material not listed            | tons            | 200  | Other Liquid Fuel                        | thou gallons |
| 322  | Material not listed            | thou gallons    | 200  | Other Liquid Fuel                        | gallons      |
| 175  | Meat                           | tons            | 736  | Ozone                                    | cft          |
| 841  | Medium BTU natural gas         | Mcf             | 554  | Paint - polyurethane                     | thou gallons |
| 179  | Methyl alcohol                 | thou gallons    | 205  | Paint - other/not specified              | tons         |
| 517  | Methyl bromide                 | thou gallons    | 205  | Paint - other/not specified              | thou gallons |
| 169  | Methyl ethyl ketone (MEK)      | thou gallons    | 412  | Paper                                    | tons         |
| 397  | Methyl methacrylate            | thou gallons    | 413  | Paperboard                               | tons         |
| 628  | Methyl tertiary-butyl ether    | thou gallons    | 50   | Paraffins - C1 & C2                      | thou gallons |
| 396  | Methylene chloride             | thou gallons    | 52   | Paraffins - C3+                          | thou gallons |
| 94   | Milk                           | thou gallons    | 464  | Partially chlorinated heterocyclics      | thou gallons |
| 184  | Mineral spirits                | thou gallons    | 207  | Pathological waste                       | tons         |
| 320  | Minerals - other/not specified | tons            | 687  | Pelletized seed                          | tons         |
| 562  | Municipal sewage               | million gallons | 465  | Perchlorinated heterocyclics             | thou gallons |
| 494  | Municipal solid waste          | tons            | 212  | Perlite                                  | tons         |
| 188  | Naphtha                        | thou gallons    | 213  | Pesticides                               | tons         |
| 189  | Natural gas                    | Mcf             | 321  | Petroleum products - other/not specified | thou gallons |
| 189  | Natural gas                    | therms          | 497  | Pharmaceuticals                          | tons         |
| 190  | Nickel                         | tons            | 214  | Phenol                                   | thou gallons |
| 559  | Nickel (electroless solution)  | gallons         | 711  | Phosphine                                | cft          |
| 544  | Nickel plating current         | amp-hours       | 217  | Phosphoric acid                          | tons         |
| 191  | Nitric acid                    | tons            | 486  | Photo polymer                            | gallons      |
| 717  | Nitrogen Trifluoride           | cft             | 486  | Photo polymer                            | thou gallons |

| CODE | MATERIAL NAME                            | UNITS        | CODE | MATERIAL NAME                          | UNITS        |
|------|------------------------------------------|--------------|------|----------------------------------------|--------------|
| 667  | Photoresist stripper                     | thou gallons | 741  | Scrap electronic circuits              | tons         |
| 225  | Plastic - polyproducts, general          | tons         | 374  | Sealants                               | thou gallons |
| 224  | Plastic - other/not specified            | tons         | 323  | Secondary metals - other/not specified | tons         |
| 809  | Polytetrafluoroethylene                  | gallons      | 683  | Seed                                   | tons         |
| 675  | Polyvinyl acetate emulsion               | tons         | 507  | Semiconductor etchant - acid           | gallons      |
| 222  | Polyvinyl chloride (PVC)                 | tons         | 506  | Semiconductor etchant - ammonia        | gallons      |
| 227  | Potash                                   | tons         | 483  | Semiconductor processing gas           | cft          |
| 535  | Powder surface coating                   | lbs          | 251  | Sewage sludge                          | tons         |
| 202  | Primary metals - other/not specified     | tons         | 250  | Silicon metal                          | tons         |
| 229  | Primer - general                         | thou gallons | 719  | Silicon Tetrachloride                  | gallons      |
| 230  | Printing ink - alkyd-based               | tons         | 499  | Silicone fluids                        | gallons      |
| 231  | Printing ink - other/not specified       | tons         | 368  | Slag                                   | tons         |
| 231  | Printing ink - other/not specified       | thou gallons | 539  | Sludge - other/not specified           | tons         |
| 237  | Process gas - other/not specified        | Mcf          | 75   | Soap                                   | tons         |
| 417  | Propane                                  | thou gallons | 252  | Sodium bicarbonate                     | tons         |
| 564  | Propylene                                | lbs          | 253  | Sodium carbonate                       | tons         |
| 690  | Propylene glycol, 1,2-                   | thou gallons | 751  | Sodium Chloride                        | tons         |
| 550  | Radionuclides                            | lbs          | 426  | Sodium hydroxide                       | tons         |
| 844  | Recycled asphaltic material              | tons         | 806  | Sodium nitrate                         | lbs          |
| 239  | Refinery feedstock - other/not specified | thou barrels | 255  | Sodium sulfite                         | tons         |
| 238  | Refinery make gas (RMG)                  | Mcf          | 749  | Sodium Tripolyphosphate                | tons         |
| 347  | Refinery sludge                          | tons         | 540  | Soil contaminated - organics           | tons         |
| 442  | Refinery sour waste water                | thou barrels | 441  | Solder - lead+flux                     | lbs          |
| 398  | Reformate                                | thou barrels | 203  | Solid fuel - other/not specified       | tons         |
| 870  | Renewable Naphtha                        | gallons      | 256  | Solid propellant                       | tons         |
| 435  | Resin - other/not specified              | thou gallons | 466  | Solid waste - other/not specified      | tons         |
| 262  | Rock                                     | tons         | 586  | Solvent solder flux                    | thou gallons |
| 404  | Rubber - tires                           | tons         | 865  | Soybean Oil                            | gallons      |
| 405  | Rubber - other/not specified             | tons         | 76   | Specialty cleaner                      | thou gallons |
| 243  | Salt                                     | tons         | 260  | Starch                                 | tons         |
| 566  | Sand abrasive                            | tons         | 261  | Steel                                  | tons         |
| 429  | Sawdust                                  | tons         | 474  | Steel shot                             | tons         |

| CODE | MATERIAL NAME                         | UNITS        | CODE | MATERIAL NAME                            | UNITS        |
|------|---------------------------------------|--------------|------|------------------------------------------|--------------|
| 263  | Styrene                               | gallons      | 783  | Triethylamine                            | thou gallons |
| 411  | Sugar - granulated                    | tons         | 632  | Trifluoromethane                         | thou gallons |
| 264  | Sugar beets                           | tons         | 339  | Vacuum distillation feed                 | thou barrels |
| 265  | Sugar cane                            | tons         | 298  | Varnish - other/not specified            | thou gallons |
| 267  | Sulfur                                | tons         | 828  | Vehicle round-trips                      | number of    |
| 721  | Sulfur Hexafluoride                   | lbs          | 338  | Waste gases                              | Mcf          |
| 837  | Sulfuryl fluoride                     | tons         | 549  | Waste oil                                | thou gallons |
| 735  | Surface coating - other/not specified | gallons      | 300  | Waste water - refin, other/not specified | thou barrels |
| 275  | Synth fibers - other/not specified    | tons         | 443  | Waste water - other/not specified        | thou gallons |
| 287  | Synth rubber - other/not specified    | tons         | 427  | Water - process, other/not specified     | thou gallons |
| 673  | Tetrafluoromethane                    | cft          | 502  | Water/organics mixture                   | thou gallons |
| 548  | Tetrahydrofuran                       | thou gallons | 432  | Wax                                      | tons         |
| 292  | Titanium                              | tons         | 301  | Wheat - flour                            | tons         |
| 707  | Titanium dioxide pigment              | tons         | 350  | Wheat - grain                            | tons         |
| 293  | Toluene                               | thou gallons | 505  | Wire insulation                          | ft           |
| 629  | Toluene diisocyanate (TDI)            | thou gallons | 305  | Wood - other/not specified               | tons         |
| 295  | Trichloroethylene                     | thou gallons | 308  | Zinc                                     | tons         |
| 480  | Trichlorotrifluoroethane              | gallons      |      |                                          |              |