

Significant Aspects

Input / Output

| Target Area | Activity/Product/Service | Input/Output |
|-------------------------|--------------------------------|--|
| Facilities | Illumination | Electricity |
| | | Physical light – fixture, bulb |
| | | Disposing of used bulbs |
| | | Disposing of old fixtures |
| | HVAC | Electricity |
| | | Natural gas |
| | | Oil |
| | | Propane |
| | | Water |
| | | Refrigerant |
| | | Chemicals |
| | | Used oil |
| | | Chemical treatments |
| | | Carbon monoxide |
| | | Noise |
| | | Heat |
| | | Greenhouse gas production |
| | | Fuel emissions (spills, containment) |
| | | Solid waste |
| | | Water use |
| | Chemicals for treatment | |
| | Gray water and sanitary sewage | |
| | Bio solids | |
| | Solid waste | |
| | Methane | |
| | Fossil fuels | |
| | Heating | |
| | Building maintenance | Cleaning chemicals |
| | | Electricity |
| | | Solid waste |
| | | Hazardous waste |
| | | Paper use |
| | | Paint |
| | | Furnishings |
| | | VOC's |
| | | Transportation (fossil fuels) Forklift |
| | Grounds Keeping | Fossil fuels |
| | | Chemicals (salt, fertilizer, pesticide, herbicide) |
| | | Water use |
| | | Electricity |
| Bio mass generation | | |
| Noise | | |
| Water run off | | |
| Plantings | | |
| Heat pollution | | |
| Packaging (solid Waste) | | |
| Equipment | | |

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|--|----------------------------------|-------------------------------|
| Transportation | Fleet Operations | Equipment |
| | | Fossil fuels |
| | | Electricity |
| | | Noise |
| | | Water run off |
| | | Greenhouse gases/particulates |
| | | Exhaust emissions |
| | | Storage |
| | Fleet Maintenance | Recycling |
| | | Parts and Equipment |
| | | Fossil fuels |
| | | Electricity |
| Pavement (roads, streets, parking lots, sidewalks, etc.) | Painting | |
| | Water run off (washing vehicles) | |
| | Greenhouse gases/particulates | |
| | Equipment fluids | |
| | Chemicals cleaners | |
| | Recycling | |
| | Solid Waste | |
| | Welding | |
| | Landfill | |
| | Equipment | |
| | Fossil Fuels | |
| | Natural Resources | |
| Dust | | |
| Chemicals | | |
| Noise | | |
| Heat | | |
| Water runoff | | |
| Habitat Degradation | | |
| Water use | | |
| Greenhouse gases/particulates | | |
| Habitat Creation | | |
| Recycling | | |
| Food Service | Food Service | Transportation |
| | | Packaging |
| | | Cooling |
| | | Electricity |
| | | Fossil Fuels |
| | | Solid waste |
| | | Recycling |
| | | Waste Oil |
| | | Natural Gas (cooking) |
| | | Composting |
| | | Water |
| | | Chemicals |
| | | Waste Water |
| | | Emissions |
| Heat | | |

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|-------------|-----------------------------------|--|
| Solid Waste | Operations | Paper/Magazine/Catalogs |
| | | E - waste |
| | | Ink Cartridge |
| | | Universal Waste |
| | | Cardboard |
| | | Packaging |
| | | Furniture/equipment |
| | | Books |
| | | Beverage Containers |
| | | Transportation |
| | | Hazardous Waste |
| | Construction and Demolition Waste | Wood |
| | | Masonry |
| | | Plastics |
| | | Metals (tins, copper, steel, aluminum) |
| | | Roofing (asphalt, clay, metal, glass, plastic, rubber, etc.) |
| | | Sheetrock |
| | | Insulation |
| | | Asbestos |
| | | Hazardous Waste |
| | | Porcelain |
| | | Flooring materials |
| | | Paint and adhesives |
| | | Chemicals |

Environmental Aspects

| Target Area | Activity/Product/Service | Environmental Aspect | Environmental Impact |
|-------------|-------------------------------------|--|-----------------------------------|
| Facilities | Illumination | Emission to Air (greenhouse gases, particulates, and heavy metals (mercury)) | Degradation of Air Quality |
| | | Discharge to Water (Waste Water) | Degradation of Water Quality |
| | | Consumption of natural resources | Reduction of Natural Resources |
| | | Generation of Waste | Degradation of Soil Quality |
| | | Generation of Light (light pollution) | Degradation of Habitat |
| | | Generation of Recyclable Materials ☺ | Preservation of Natural Resources |
| | HVAC | Consumption of natural resources | Reduction of Natural Resources |
| | | Emission to Air (greenhouse gases, particulates, and heavy metals (mercury)) | Degradation of Air Quality |
| | | Generation of Noise | Degradation of Habitat |
| | | Discharge to Land(spills) | Degradation of Soil Quality |
| | | Consumption of Water | Reduction of Natural Resources |
| | | Generation of Water (waste water) | Degradation of Water Quality |
| | | Generation of waste | Degradation of Soil Quality |
| | | Generation of Heat | Degradation of Habitat |
| | | Generation of Dust | Degradation of Habitat |
| | | Generation of Recyclable Materials (oil, refrigerant) ☺ | Preservation of Natural Resources |
| | Water use | Consumption of natural resources | Reduction of Natural Resources |
| | | Emissions to air | Degradation of Air Quality |
| | | Generation of waste | Degradation of Soil Quality |
| | | Discharge to water | Degradation of Water Quality |
| | | Generation of Recyclable Materials (fertilizer, packaging) ☺ | Preservation of Natural Resources |
| | Building maintenance | Consumption of Land (landfill) | Reduction of Natural Resources |
| | | Generation of Dust | Degradation of Air Quality |
| | | Discharge to water (waste water) | Degradation to Water Quality |
| | | Emissions to air | Degradation of Air Quality |
| | | Consumption of natural resources | Reduction of Natural Resources |
| | | Generation of Waste | Degradation of Soil Quality |
| | Generation of Recyclable Material ☺ | Preservation of Natural Resources | |

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|---|--|---|-----------------------------------|
| | Grounds Keeping | Consumption of natural resources | Reduction of Natural Resources |
| | | Discharge to water (Surface Water) | Degradation of Water Quality |
| | | Emissions to air | Degradation of Air Quality |
| | | Discharge to water (ground water) | Degradation of Water Quality |
| | | Consumption of Land (landfill) | Reduction in Natural Resources |
| | | Consumption of land (habitat degradation) | Degradation of Habitat |
| | | Generation of Dust | Degradation of Habitat |
| | | Generation of Waste | Degradation of Soil Quality |
| | | Generation of Recyclable Material/Composting ☺ | Preservation of Natural Resources |
| | | Generation of Habitat ☺ | Preservation of Habitat |
| | | Groundwater cleansing ☺ | Improvement to Water Quality |
| Carbon sequestration ☺ | Improvement to Air Quality | | |
| Transportation | Fleet Operations | Consumption of Fuels | Reduction of Natural Resources |
| | | Discharge to water (surface Water) | Degradation of Water Quality |
| | | Emissions to air | Degradation of Air Quality |
| | | Discharge to water (Groundwater) | Degradation of Water Quality |
| | | Consumption of Land (Habitat degradation) | Degradation of Habitat |
| | | Consumption of Natural Resources | Reduction of Natural Resources |
| | | Generation of Recyclable Material (packaging/oil) ☺ | Preservation of Natural Resources |
| | Fleet Maintenance | Consumption of Natural Resources | Reduction of Natural Resources |
| | | Generation of Waste | Degradation of Soil Quality |
| | | Consumption of Water | Reduction of Natural Resources |
| | | Discharge to Water (Surface Water) | Degradation of Water Quality |
| | | Emissions to Air | Degradation of Air Quality |
| | | Generation of Noxious Fumes | Degradation of Air Quality |
| | | Consumption of Land | Reduction of Natural Resources |
| | Generation of Recyclable Material (packaging/oil) ☺ | Preservation of Natural Resources | |
| | Pavement (roads, streets, parking lots, sidewalks, etc.) | Consumption of Natural Resources | Reduction of Natural Resources |
| | | Generation of Waste | Degradation of Soil Quality |
| | | Consumption of Water | Reduction of Natural Resources |
| | | Discharge to Water (Surface Water) | Degradation of Water Quality |
| | | Emissions to Air | Degradation of Air Quality |
| | | Generation of Noxious Fumes | Degradation of Air Quality |
| Generation of Dust | | Degradation of Habitat | |
| Generation of Heat | | Degradation of Habitat | |
| Consumption of Materials | | Reduction of Natural Resources | |
| Consumption of Land (Habitat) | | Reduction in Natural Resources | |
| Generation of Recyclable Material (Reclamation) ☺ | Preservation of Natural Resources | | |
| Generation of Habitat ☺ | Preservation of Habitat | | |

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|-------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|
| Food Service | Food Service | Consumption of Natural Resources | Reduction of Natural Resources |
| | | Generation of Waste | Degradation of Soil Quality |
| | | Consumption of Water | Reduction of Natural Resources |
| | | Discharge to Water (Waste Water) | Degradation of Water Quality |
| | | Emissions to Air | Degradation of Air Quality |
| | | Generation of Noxious Fumes | Degradation of Air Quality |
| | | Generation of Heat | Degradation of Habitat |
| | | Consumption of Materials | Reduction of Natural Resources |
| | | Consumption of Land | Reduction in Natural Resources |
| | | Generation of Recyclable Material ☺ | Preservation of Natural Resources |
| Solid Waste | Operations | Consumption of Natural Resources | Reduction of Natural Resources |
| | | Generation of Waste | Degradation of Soil Quality |
| | | Discharge to Water (Surface Water) | Degradation of Water Quality |
| | | Emissions to Air | Degradation of Air Quality |
| | | Generation of Noxious Fumes | Degradation of Air Quality |
| | | Consumption of Materials | Reduction of Natural Resources |
| | | Consumption of Land | Reduction in Natural Resources |
| | | Generation of Recyclable Material ☺ | Preservation of Natural Resources |
| | Construction and Demolition Waste | Consumption of Natural Resources | Reduction of Natural Resources |
| | | Generation of Waste | Degradation of Soil Quality |
| | | Discharge to Water (Surface Water) | Degradation of Water Quality |
| | | Emissions to Air | Degradation of Air Quality |
| | | Generation of Noxious Fumes | Degradation of Air Quality |
| | | Consumption of Materials | Reduction of Natural Resources |
| Consumption of Land | Reduction in Natural Resources | | |
| Generation of Recyclable Material ☺ | Preservation of Natural Resources | | |

Significance Matrix

| Criteria | | | | | | | | | | | | |
|-------------------------------|---|-----------|----------------------------|----------|-------------|----------|-----------------------|----------------|-----------------------|-----------------------|-------|---------|
| Activity | Environmental Aspect | Regulated | Environmental Significance | | | | Business Significance | | | | Score | Average |
| | | | Scale | Severity | Probability | Duration | Legal Exposure | Public Concern | Easy to Change Impact | Can we Change Process | | |
| Illumination | Emission to Air (greenhouse gases, particulates, and heavy metals(mercury)) | No | 5 | 5 | 5 | 5 | 1 | 2 | Yes | Yes | 23 | 3.8 |
| HVAC | Emission to Air (greenhouse gases, particulates, and heavy metals(mercury)) | No | 5 | 5 | 5 | 5 | 1 | 2 | No | Yes | 23 | 3.8 |
| Water Use | Emissions to air | No | 5 | 5 | 5 | 4 | 1 | 1 | No | No | 21 | 3.5 |
| Building Maintenance | Consumption of Land (landfill) | Yes | 4 | 3 | 5 | 5 | 1 | 2 | Yes | Yes | 20 | 3.3 |
| Fleet Operations | Consumption of Fuels | No | 5 | 5 | 5 | 5 | 1 | 2 | No | No | 23 | 3.8 |
| | Emissions to air | No | 5 | 5 | 5 | 4 | 1 | 3 | No | No | 23 | 3.8 |
| Fleet Maintenance | Generation of Waste | Yes | 4 | 2 | 5 | 3 | 4 | 2 | No | Yes | 20 | 3.3 |
| Food Service | Generation of Waste | Yes | 5 | 3 | 5 | 5 | 1 | 2 | Yes | Yes | 21 | 3.5 |
| | Emissions to Air | No | 4 | 4 | 5 | 5 | 1 | 2 | No | Yes | 21 | 3.5 |
| Solid Waste (Operations) | Generation of Waste | Yes | 5 | 3 | 5 | 4 | 2 | 3 | Yes | Yes | 22 | 3.7 |
| | Emissions to Air | No | 5 | 5 | 4 | 5 | 1 | 2 | Yes | Yes | 22 | 3.7 |
| | Consumption of Land | Yes | 3 | 3 | 5 | 4 | 4 | 3 | Yes | Yes | 22 | 3.7 |
| Solid Waste (Const. and Demo) | Emissions to Air | No | 5 | 5 | 4 | 5 | 1 | 2 | Yes | Yes | 22 | 3.7 |
| | Consumption of Land | Yes | 3 | 3 | 5 | 4 | 4 | 3 | Yes | Yes | 22 | 3.7 |

Ranking Values

Regulated (Y or N)

Environmental Significance:

1. Scale of impact – how big is it? (L, ML, M, MH, H)
2. Severity of impact – how bad is it? Consider worker, community and environmental health.(L, ML, M, MH, H)
3. Probability of impact – how likely is it to occur? (L, ML, M, MH, H)
4. Duration of impact – how long will it persist? (L, ML, M, MH, H)

Business Significance:

1. Potential for legal exposure – how much risk does it pose? (L, ML, M, MH, H)
2. Public concern or effect on image – how much does the public care about this? (L, ML, M, MH, H)
3. Ease of changing the impact– can it be stopped or changed economically? (Y or N)
4. Minimal change of process – do we control the process and can it be changed to lessen significance?(Y/N)

The proposed scale is as follows:

- Low (L) – 1
- Medium low (ML) – 2
- Medium(M) – 3
- Medium high (MH) – 4
- High(H) – 5