

## APPENDIX D

### IMPACT ASSESSMENT CRITERIA

The following list of criteria can be used to identify activities, situations, or other conditions that could potentially have an adverse effect on the environmental quality of Strawberry Creek and its associated riparian corridors.

#### I. Water Quality Impacts

##### A. Point Source Pollution

1. Building cooling water discharged to creek?
2. Thermal discharges to creek?
3. Other drainage / discharge / overflow to creek?
4. Building floor drains routed to creek?
5. Boiler blowdown routed into creek?
6. Swimming pool backflush routed to creek?

##### B. Non-point Source Pollution

1. Additional storm drains routed to creek?
2. Contamination hazard from spillage / storage of chemicals or other hazmats?
3. Increased siltation, sedimentation, or turbidity?
4. Areal application of herbicides, pesticides, fungicides, fertilizers, etc. pose a surface runoff hazard to creek?
5. Septic systems or other sewage disposal systems located in close proximity to creek?
6. Additional auto-related land uses (parking lots, roadways, service areas, junkyards, etc.) drain into creek?
7. Increased rate or volume of irrigation?
8. Increased discoloration, foaming, or unpleasant odors in the creek?

#### II. Impingement on Creek Corridors

1. New building or structure located within close proximity to creek?
2. Additional bridging or overhead structures (utilities, etc.) over the creek?
3. Construction activities occur within close proximity of creek?
4. Storage of materials, chemicals, or equipment close to creek?
5. Possible increase in debris or trash accumulation along creek corridors?
6. Increased noise levels in creek areas?
7. High-rise structures built in vicinity of creek corridors?
8. Detract from visual amenity or variety of creek corridors?
9. Affect open space or buffer zone functions of creek corridors?
10. Hinder the recreational use of the creek or its corridors?
11. Decrease the educational opportunities or use?
12. Degrade wildlife habitat?
13. Attract annoying pests (rodents, insects, etc.) ?
14. Pose an increased flooding hazard?

### III. Physical Alteration of Creek Channels

1. Additional channelization, channel confinement, or lining the streambed or banks with concrete or other artificial materials?
2. Diversions or bypasses required?
3. Culverting?
4. Excavation or filling within creek channels?
5. Alteration of creek bed gradient?
6. Alteration of physical composition of bed or banks?
7. Installation or construction of any structures in streambed or on the banks?

### IV. Alteration of Hydrologic Characteristics

1. Decrease low flow water levels?
2. Increase magnitude of peak flows?
3. Increase flood stage?
4. Decrease lag time?
5. Additional surface runoff?
6. Increase point source discharge volume?
7. Produce stagnant conditions?
8. Alter pool or riffle habitat?
9. Change drainage flow patterns or areas?
10. Additional impervious surface?
11. Alter existing storm drainage system?

### V. Soil Disturbance

1. Exposure of bare soil?
2. Stripping or excavation of soil?
3. Ground compaction?
4. Alter existing grades?
5. Trenching?
6. Alter soil drainage characteristics?
7. Produce hydrophobic soils?
8. Slope disturbance?
9. Disturb colluvium or landslide bodies?
10. Increase mechanical loading or water saturation of slopes?

### VI. Vegetation Disturbance

1. Removal or stripping of vegetation?
2. Thinning or removal of any part of the overstory, understory, or herbaceous layers?
3. Change composition of vegetative cover type or layer?
4. Removal of detritus / litter/ duff?
5. Burning of vegetation?
6. Spraying with any chemicals?
7. Introduction of exotic (non-native) species?
8. Make more susceptible to insects or diseases?
9. Cover root systems with impervious surface?
10. Disturb root systems?
11. Alter soil moisture content?
12. Increase or alter irrigation?