

Table 1b. Arcadia Creek Pollutants

| Impaired Use (H=high concern; L=low concern) | Pollutants (Impairments) (K = known; S = suspected) | Pollutant Sources | Causes |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Warmwater fishery (L) (for some reaches) | Chlorine; localized, periodic spikes (S) | Swimming pool water | Seasonal pool discharges to storm water drains |
| | Oil, grease, metals (K) | Carried in storm water | Vehicular tires, fuels, lubricants, chemicals washed off roads, etc.; some aerial deposition |
| | Hydrocarbons (K) | Carried in storm water | (Same as directly above) |
| | Nutrients (K) | Fertilizers, organic compounds | Over use, improper use, leaching in runoff, improper disposal |
| | Sediments (K) | Soils and sediments | Storm water transport, flooding & erosion due to lack of or inadequate buffers |
| | Chemicals (S) | Pesticides, herbicides, VOCs, etc. (broad spectrum) | Similar to above categories |
| Other indigenous aquatic life and wildlife (H) | Thermal loading (K) | Storm water over impervious surfaces | Heat gain from sunlight, impervious materials, air temperature |
| | Sedimentation (K) | Storm water run-off, erosion | Streambank erosion, runoff from roads and bare earth |
| | Trash (K) | Businesses, residents, transients | Littering and/or deliberate dumping |
| | Nutrients (K), chemicals (S) & all above except bacteria and vegetation | Storm water, fertilizers, pesticides/herbicides, VOCs (broad spectrum) | Improper use and disposal, soil/sediment erosion, aerial deposition |
| Partial body contact, recreation (L) | Bacteria (K), sediments, nutrients, chemicals, trash (K) | Fecal materials, refuse, illegal dumping | Illicit discharges, waterfowl, pets, littering |

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| Committee Concerns | | | |
| Native vegetation/ naturalization & Unique habitat/natural buffers (H) | Examples are purple loosestrife, buckthorn, garlic mustard and others (K) | Spread from existing invasive vegetation by people, wildlife, wind | Ignorance; Nutrients and sediments can cause favorable conditions |
| Flood control and flow capability (H) (Quantity of flow and capacity of system to handle volume) | Obstructions such as rocks, sediment, trees, brush & trash that restrict flow (K) | Streambank erosion, storm water sediment loading, fallen branches/trees, littering/dumping | Excessive runoff; erosion; build-up of rocks, sediment, trees, brush & trash (K) as well as man-made flow restrictions |
| Flood prevention/ control of storm water (H) | Excessive, flashy hydraulic flows (K) | Insufficient capacity both upstream and downstream to accommodate peak flows; limited infiltration in the watershed. | Narrowed channels, loss of floodplain wetlands, increased impervious surfaces, etc |