

Appendix C

PCB Source Assessment Prioritization Matrix

PCB SOURCE ASSESSMENT PRIORITIZATION MATRIX

Matrices & Designated Uses	Designated Use Importance	Degree of Use Impairment	Probability to Control the Source	Public / Political Concern	Urgency to Address the Problem	TOTALS
A. Fish Tissue Concentration	A1. 9 X _ = _	A2. 9 X _ = _	A3. 8 X _ = _	A4. 8 X _ = _	A5. 8 X _ = _	
B. Fish Consumption	B1. 8 X _ = _	B2. 8 X _ = _	B3. 7 X _ = _	B4. 7 X _ = _	B5. 7 X _ = _	
C. Sediment Concentration	C1. 7 X _ = _	C2. 7 X _ = _	C3. 6 X _ = _	C4. 6 X _ = _	C5. 6 X _ = _	
D. Shellfish Consumption	D1. 6 X _ = _	D2. 6 X _ = _	D3. 5 X _ = _	D4. 5 X _ = _	D5. 5 X _ = _	
E. Public Water Supply	E1. 5 X _ = _	E2. 5 X _ = _	E3. 4 X _ = _	E4. 4 X _ = _	E5. 4 X _ = _	
F. Primary Contact Recreation*	F1. 4 X _ = _	F2. 4 X _ = _	F3. 3 X _ = _	F3. 3 X _ = _	F5. 3 X _ = _	
G. Aquatic Life Protection	G1. 3 X _ = _	G2. 3 X _ = _	G3. 2 X _ = _	G4. 2 X _ = _	G5. 2 X _ = _	
H. Wildlife Protection	H1. 2 X _ = _	H2. 2 X _ = _	H3. 1 X _ = _	H4. 1 X _ = _	H5. 1 X _ = _	
					PRIORITY TOTAL =	

* - Human exposure to sediment or soils

RANKING MULTIPLIER EXPLANATIONS

FISH TISSUE CONCENTRATION

A.1. : FISH TISSUE CONCENTRATION – DESIGNATED USE IMPORTANCE – Fish species number and whether consumed.

- 0 = NOT APPLICABLE, No fish tissue concentration data from waterbody
- 1 = One or multiple non-consumed fish species.
- 2 = One rarely consumed fish species.
- 3 = Multiple rarely consumed fish species.

- 4 = One frequently consumed fish species.
- 5 = Multiple frequently consumed fish species.

A.2. : FISH TISSUE CONCENTRATION - DEGREE of USE IMPAIRMENT – Severity of concentration

- 0 = NOT APPLICABLE, No fish tissue concentration data from waterbody
- 1 = Fish tissue concentration < 50 ppb.
- 2 = Fish tissue concentration between 50 and 99 ppb.
- 3 = Fish tissue concentration between 100 and 999 ppb.
- 4 = Fish tissue concentration between 1000 and 4999 ppb.
- 5 = Fish tissue concentration > 5000 ppb.

A.3. : FISH TISSUE CONCENTRATION - PROBABILITY TO CONTROL THE SOURCE

- 0 = NOT APPLICABLE, No fish tissue concentration data from waterbody
- 1 = Very low probability (considered none) to control problem.
- 2 = Low probability of control, technology does not exist, extremely difficult to apply existing technology, undefined NPS sources.
- 3 = Moderate probability of control, TMDL scheduled for development, technology exists, difficult/impractical to apply existing technology.
- 4 = High probability of control, TMDL scheduled within 5 yrs., technology applied successfully elsewhere.
- 5 = Control mechanisms being developed for sources with high probability of control.

A.4. : FISH TISSUE CONCENTRATION – PUBLIC / POLITICAL CONCERN

- 0 = NOT APPLICABLE, No fish tissue concentration data from waterbody
- 1 = Very low public / political concern related to fish tissue concentration.
- 2 = Low public / political concern related to fish tissue concentration.
- 3 = Moderate public / political concern related to fish tissue concentration.
- 4 = High public / political concern related to fish tissue concentration.
- 5 = Very High public / political concern related to fish tissue concentration.

A.5. : FISH TISSUE CONCENTRATION - URGENCY to ADDRESS PROBLEM

- 0 = NOT APPLICABLE, No fish tissue concentration data from waterbody
- 1 = Very low/no urgency, not listed as threatened (303d), no significant impacts of impairment.
- 2 = Low urgency for control, listed as threatened (303d), possible significant impacts of impairment not yet experienced.
- 3 = Moderate urgency for control, TMDL scheduled for development, significant impacts of impairment not yet experienced.
- 4 = High urgency for control, TMDL scheduled within 3 yrs., significant impacts of impairment infrequently experienced.
- 5 = Control needed \leq one year, significant health effects or other significant impacts to community due to impairment.

HUMAN CONSUMPTION of FISH

B.1. : HUMAN CONSUMPTION of FISH – DESIGNATED USE IMPORTANCE

- 0 = NOT APPLICABLE, No known human consumption of FISH from waterbody or human consumption of FISH prohibited and prohibition for human consumption of FISH not due to contamination.
- 1 = Minimal human consumption of FISH species.
- 2 = Moderate human consumption of FISH species.
- 3 = Significant human consumption of FISH species.
- 4 = FISH comprise irreplaceable segment of human food supply.

B.2. : HUMAN CONSUMPTION of FISH - DEGREE of USE IMPAIRMENT

- 0 = NOT APPLICABLE, No known impairment of human consumption of FISH from waterbody or human consumption of FISH prohibited not due to contamination.

- 1 = Infrequent and temporary loss of resource use primarily due to non-anthropogenic causes.
- 2 = DEQ preliminary data indicates possible exceedance of human health criteria.
- 3 = VDH advisory issued limiting consumption for portion of the population, or DEQ data confirm exceedance of VDH criteria.
- 4 = VDH advisory issued limiting consumption for entirety of the population, or Included on 303d listing as impaired and cause due to presence of human health toxics.
- 5 = VDH advisory issued banning consumption for entirety of the population.

B.3. : HUMAN CONSUMPTION of FISH - PROBABILITY TO CONTROL THE SOURCE

- 0 = NOT APPLICABLE, No impairment to human consumption of FISH.
- 1 = Very low probability (considered none) to control problem.
- 2 = Low probability of control, technology does not exist, extremely difficult to apply existing technology, undefined NPS sources.
- 3 = Moderate probability of control, TMDL scheduled for development, technology exists, difficult/impractical to apply existing technology.
- 4 = High probability of control, TMDL scheduled within 5 yrs., technology applied successfully elsewhere.
- 5 = Control mechanisms being developed for sources with high probability of control.

B.4. : HUMAN CONSUMPTION of FISH – PUBLIC / POLITICAL CONCERN

- 0 = NOT APPLICABLE, No human consumption of FISH.
- 1 = Very low public / political concern related to human consumption of FISH.
- 2 = Low public / political concern related to human consumption of FISH.
- 3 = Moderate public / political concern related to human consumption of FISH.
- 4 = High public / political concern related to human consumption of FISH.
- 5 = Very High public / political concern related to human consumption of FISH.

B.5. : HUMAN CONSUMPTION of FISH - URGENCY to ADDRESS PROBLEM

- 0 = NOT APPLICABLE, No human consumption of FISH.
- 1 = Very low/no urgency, not listed as threatened (303d), no significant impacts of impairment.
- 2 = Low urgency for control, listed as threatened (303d), possible significant impacts of impairment not yet experienced.
- 3 = Moderate urgency for control, TMDL scheduled for development, significant impacts of impairment not yet experienced.
- 4 = High urgency for control, TMDL scheduled within 3 yrs., significant impacts of impairment infrequently experienced.
- 5 = Control needed \leq one year, significant health effects or other significant impacts to community due to impairment.

SEDIMENT CONCENTRATION

C.1. : SEDIMENT CONCENTRATION - DESIGNATED USE IMPORTANCE – Number of stations in waterbody with concentrations > ER-M if tidal and PEC if non-tidal.

- 0 = NOT APPLICABLE, No sediment concentration data from waterbody
- 1 = One or more stations with concentrations < 82 ppb.
- 2 = One station with concentrations > 82 ppb.
- 3 = Two stations with concentrations > 82 ppb.
- 4 = Three stations with concentrations > 82 ppb.
- 5 = Four or more stations with concentrations > 82 ppb.

C.2. : SEDIMENT CONCENTRATION - DEGREE of USE IMPAIRMENT – Severity of sediment concentration

- 0 = NOT APPLICABLE, No sediment concentration data from waterbody
- 1 = Sediment concentration < 15 ppb (BASS model risk based approach).
- 2 = Sediment concentration between 16 ppb to 82 ppb (DEQ 95th %ile)

- 3 = Sediment concentration between 83 ppb and 1600 ppb (DEQ 99th %ile)
- 4 = Sediment concentration between 1601 (DEQ 99th %ile) and 4999 ppb.
- 5 = Sediment concentration > 5000 ppb.

C.3. : SEDIMENT CONCENTRATION - PROBABILITY TO CONTROL THE SOURCE

- 0 = NOT APPLICABLE, No sediment concentration data from waterbody
- 1 = Very low probability (considered none) to control problem.
- 2 = Low probability of control, technology does not exist, extremely difficult to apply existing technology, undefined NPS sources.
- 3 = Moderate probability of control, TMDL scheduled for development, technology exists, difficult/impractical to apply existing technology.
- 4 = High probability of control, TMDL scheduled within 5 yrs., technology applied successfully elsewhere.
- 5 = Control mechanisms being developed for sources with high probability of control.

C.4. : SEDIMENT CONCENTRATION - PUBLIC / POLITICAL CONCERN

- 0 = NOT APPLICABLE, No sediment concentration data from waterbody
- 1 = Very low public / political concern related to sediment concentration.
- 2 = Low public / political concern related to sediment concentration.
- 3 = Moderate public / political concern related to sediment concentration.
- 4 = High public / political concern related to sediment concentration.
- 5 = Very High public / political concern related to sediment concentration.

C.5. : SEDIMENT CONCENTRATION - URGENCY to ADDRESS PROBLEM

- 0 = NOT APPLICABLE, No sediment concentration data from waterbody
- 1 = Very low/no urgency, not listed as threatened (303d), no significant impacts of impairment.
- 2 = Low urgency for control, listed as threatened (303d), possible significant impacts of impairment not yet experienced.
- 3 = Moderate urgency for control, TMDL scheduled for development, significant impacts of impairment not yet experienced.
- 4 = High urgency for control, TMDL scheduled within 3 yrs., significant impacts of impairment infrequently experienced.
- 5 = Control needed \leq one year, significant health effects or other significant impacts to community due to impairment.

HUMAN CONSUMPTION of SHELLFISH

D.1. : HUMAN CONSUMPTION of SHELLFISH - DESIGNATED USE IMPORTANCE

- 0 = NOT APPLICABLE, No known human consumption of SHELLFISH from waterbody or human consumption of SHELLFISH prohibited and prohibition for human consumption of SHELLFISH not due to contamination.
- 1 = Minimal human consumption of SHELLFISH species.
- 2 = Moderate human consumption of SHELLFISH species.
- 3 = Significant human consumption of SHELLFISH species.
- 4 = SHELLFISH comprise irreplaceable segment of human food supply.

D.2. : HUMAN CONSUMPTION of SHELLFISH - DEGREE of USE IMPAIRMENT

- 0 = NOT APPLICABLE, No known impairment of human consumption of SHELLFISH from waterbody or human consumption of SHELLFISH prohibited not due to contamination.
- 1 = Infrequent and temporary loss of resource use primarily due to non-anthropogenic causes.
- 2 = DEQ preliminary data indicates possible exceedance of human health criteria.
- 3 = VDH advisory issued limiting consumption for portion of the population, or DEQ data confirm exceedance of VDH criteria.

- 4 = VDH advisory issued limiting consumption for entirety of the population, or Included on 303d listing as impaired and cause due to presence of human health toxics.
- 5 = VDH advisory issued banning consumption for entirety of the population.

D.3. : HUMAN CONSUMPTION of SHELLFISH - PROBABILITY TO CONTROL THE SOURCE

- 0 = NOT APPLICABLE, No impairment to human consumption of SHELLFISH.
- 1 = Very low probability (considered none) to control problem.
- 2 = Low probability of control, technology does not exist, extremely difficult to apply existing technology, undefined NPS sources.
- 3 = Moderate probability of control, TMDL scheduled for development, technology exists, difficult/impractical to apply existing technology.
- 4 = High probability of control, TMDL scheduled within 5 yrs., technology applied successfully elsewhere.
- 5 = Control mechanisms being developed for sources with high probability of control.

D.4. : HUMAN CONSUMPTION of SHELLFISH - PUBLIC / POLITICAL CONCERN

- 0 = NOT APPLICABLE, No human consumption of SHELLFISH.
- 1 = Very low public / political concern related to human consumption of SHELLFISH.
- 2 = Low public / political concern related to human consumption of SHELLFISH.
- 3 = Moderate public / political concern related to human consumption of SHELLFISH.
- 4 = High public / political concern related to human consumption of SHELLFISH.
- 5 = Very High public / political concern related to human consumption of SHELLFISH.

D.5. : HUMAN CONSUMPTION of SHELLFISH - URGENCY to ADDRESS PROBLEM

- 0 = NOT APPLICABLE, No human consumption of SHELLFISH.
- 1 = Very low/no urgency, not listed as threatened (303d), no significant impacts of impairment.
- 2 = Low urgency for control, listed as threatened (303d), possible significant impacts of impairment not yet experienced.
- 3 = Moderate urgency for control, TMDL scheduled for development, significant impacts of impairment not yet experienced.
- 4 = High urgency for control, TMDL scheduled within 3 yrs., significant impacts of impairment infrequently experienced.
- 5 = Control needed \leq one year, significant health effects or other significant impacts to community due to impairment.

PUBLIC WATER SUPPLY

E.1. : PUBLIC WATER SUPPLY - DESIGNATED USE IMPORTANCE

- 0 = NOT APPLICABLE, No public water supply use.
- 1 = Small or moderate PWS more than 5 miles outside of impaired waterbody.
- 2 = Large PWS more than 5 miles outside of impaired waterbody.
- 3 = Small PWS withdrawal within impaired waterbody.
- 4 = Moderate PWS withdrawal within impaired waterbody.
- 5 = Large PWS withdrawal within impaired waterbody.

E.2. : PUBLIC WATER SUPPLY - DEGREE of USE IMPAIRMENT

- 0 = NOT APPLICABLE, No impairment.
- 1 = DEQ preliminary data indicates possible exceedance of human health criteria for PCBs in drinking water.
- 2 = VDH warning issued to limit consumption and/or DEQ data confirmed exceeding human health criteria.
- 3 = Suspension of use as PWS $\geq 7 < 30$ days during any 12 month period or Included on 303d listing as threatened for PWS use.
- 4 = VDH advisory issued limiting consumption, and/or suspension of use as PWS ≥ 30 days during any 12 month period.

5 = Suspension of use as PWS > 60 days during any 12 month period or Included on 303d listing as impaired.

E.3. : PUBLIC WATER SUPPLY - PROBABILITY TO CONTROL THE SOURCE

- 0 = NOT APPLICABLE, No water supply use impairment.
- 1 = Very low probability (considered none) to control problem.
- 2 = Low probability of control, technology does not exist, extremely difficult to apply existing technology, undefined NPS sources.
- 3 = Moderate probability of control, TMDL scheduled for development, technology exists, difficult/impractical to apply existing technology.
- 4 = High probability of control, TMDL scheduled within 5 yrs., technology applied successfully elsewhere.
- 5 = Control mechanisms being developed for sources with high probability of control.

E.4. : PUBLIC WATER SUPPLY - PUBLIC / POLITICAL CONCERN

- 0 = NOT APPLICABLE, Not a public water supply.
- 1 = Very low public / political concern related to public water supply.
- 2 = Low public / political concern related to public water supply.
- 3 = Moderate public / political concern related to public water supply.
- 4 = High public / political concern related to public water supply.
- 5 = Very High public / political concern related to public water supply.

E.5. : PUBLIC WATER SUPPLY - URGENCY to ADDRESS PROBLEM

- 0 = NOT APPLICABLE, No water supply use impairment.
- 1 = Very low/no urgency, not listed as threatened (303d), no significant impacts of impairment.
- 2 = Low urgency for control, listed as threatened (303d), possible significant impacts of impairment not yet experienced.
- 3 = Moderate urgency for control, TMDL scheduled for development, significant impacts of impairment not yet experienced.
- 4 = High urgency for control, TMDL scheduled within 3 yrs., significant impacts of impairment infrequently experienced.
- 5 = Control needed \leq one year, significant health effects or other significant impacts to community due to impairment.

PRIMARY CONTACT RECREATION (Human Exposure to Sediments or Soils)

F.1. : PRIMARY CONTACT RECREATION (Human Exposure to Sediments or Soils) - DESIGNATED USE IMPORTANCE

- 0 = NOT APPLICABLE, No known primary contact recreation occurs, or primary contact prohibited, or human exposure to sediment or soils not possible.
- 1 = Primary contact not prohibited, no swimming areas designated, conditions not conducive to swimming, no data primary contact occurs, but human exposure to sediment or soils is possible.
- 2 = Minimal primary contact occurs, no swimming areas designated, conditions sporadically support swimming, information that primary contact occurs occasionally, minimal level of human exposure to sediments or soils occurs.
- 3 = Moderate primary contact occurs, few swimming areas designated, conditions usually support swimming, information that primary contact occurs seasonally, moderate level of human exposure to sediments or soils occurs.
- 4 = Significant primary contact occurs, multiple swimming areas designated, conditions support swimming, information that primary contact occurs regularly, significant level of human exposure to sediments or soils occurs.
- 5 = Significant primary contact resource, area important recreational swimming resource, multiple swimming areas designated, high level of human exposure to sediments or soils occurs.

F.2. : PRIMARY CONTACT RECREATION (Human Exposure to Sediments or Soils) - DEGREE of USE IMPAIRMENT

- 0 = NOT APPLICABLE, No impairment or no known primary contact occurs.
- 1 = Primary contact not prohibited, no swimming areas designated, conditions not conducive to swimming, no data primary contact occurs, but human exposure to sediment or soils is possible.
- 2 = Minimal primary contact occurs, no swimming areas designated, conditions sporadically support swimming, information that primary contact occurs occasionally, minimal level of human exposure to sediments or soils occurs.
- 3 = Moderate primary contact occurs, few swimming areas designated, conditions usually support swimming, information that primary contact occurs seasonally, moderate level of human exposure to sediments or soils occurs.
- 4 = Significant primary contact occurs, multiple swimming areas designated, conditions support swimming, information that primary contact occurs regularly, significant level of human exposure to sediments or soils occurs.
- 5 = Significant primary contact resource, area important recreational swimming resource, multiple swimming areas designated, high level of human exposure to sediments or soils occurs.

F.3. : PRIMARY CONTACT RECREATION (Human Exposure to Sediments or Soils) - PROBABILITY TO CONTROL THE SOURCE

- 0 = NOT APPLICABLE, no impairment or no known primary contact occurs.
- 1 = Very low probability (considered none) to control problem.
- 2 = Low probability of control, technology does not exist, extremely difficult to apply existing technology, undefined NPS sources.
- 3 = Moderate probability of control, TMDL scheduled for development, technology exists, difficult/impractical to apply existing technology.
- 4 = High probability of control, TMDL scheduled within 5 yrs., technology applied successfully elsewhere.
- 5 = Control mechanisms being developed for sources with high probability of control.

F.4. : PRIMARY CONTACT RECREATION (Human Exposure to Sediments or Soils) - PUBLIC / POLITICAL CONCERN

- 0 = NOT APPLICABLE, No PRIMARY CONTACT RECREATION (Human Exposure to Sediments or Soils).
- 1 = Very low public / political concern related to Human Exposure to Sediments or Soils.
- 2 = Low public / political concern related to Human Exposure to Sediments or Soils.
- 3 = Moderate public / political concern related to Human Exposure to Sediments or Soils.
- 4 = High public / political concern related to Human Exposure to Sediments or Soils.
- 5 = Very High public / political concern related to Human Exposure to Sediments or Soils.

F.5. : PRIMARY CONTACT RECREATION (Human Exposure to Sediments or Soils) - URGENCY to ADDRESS PROBLEM

- 0 = NOT APPLICABLE, no impairment or no known primary contact occurs.
- 1 = Very low/no urgency, not listed as threatened (303d), no significant impacts of impairment.
- 2 = Low urgency for control, listed as threatened (303d), possible significant impacts of impairment not yet experienced.
- 3 = Moderate urgency for control, TMDL scheduled for development, significant impacts of impairment not yet experienced.
- 4 = High urgency for control, TMDL scheduled within 3 yrs., significant impacts of impairment infrequently experienced.
- 5 = Control needed \leq one year, significant health effects or other significant impacts to community due to impairment.

AQUATIC LIFE PROTECTION

G.1. : AQUATIC LIFE PROTECTION - DESIGNATED USE IMPORTANCE

- 0 = NOT APPLICABLE, No aquatic life community present, lack of aquatic life community is logical (terrestrial site), natural, not anthropogenic.
- 1 = Small/shallow warm waterbody with little fishing pressure, natural conditions not conducive to significant aquatic life populations.
- 2 = Minimally significant aquatic life populations, some mixed stream areas present, natural conditions do not support significant spawning/nursery, no significant commercial or recreational fishing, no endangered, threatened, or special interest species.
- 3 = Moderately significant aquatic life populations, natural conditions would support significant spawning/nursery, moderately significant commercial or recreational fishing, no endangered, threatened, or special interest species, information of significant aquatic populations occurs seasonally.
- 4 = Significant aquatic life populations, natural conditions have historically supported significant spawning/nursery, significant commercial or recreational fishing, or few number or few members of endangered, threatened, or special interest species, cold water fishing Class V or VI waters.
- 5 = Significant aquatic life populations, established as a significant spawning/nursery, renowned commercial or recreational fishing, or many number or many members of endangered, threatened, or special interest species, cold water fishing Class V or VI, or Tier 3 waters, loss of aquatic life populations resource would be irreplaceable.

G.2. : AQUATIC LIFE PROTECTION - DEGREE of USE IMPAIRMENT

- 0 = NOT APPLICABLE, or no known impairment.
- 1 = Impairment not due to anthropogenic causes, natural conditions not conducive to significant aquatic life populations.
- 2 = Minimally significant anthropogenic impairment, and/or benthic monitoring rating Good-Fair (slight impairment), and/or slight reductions in aquatic life population densities or diversity.
- 3 = Moderately significant anthropogenic impairment, and/or PCB concentration > 180 ppb (ER-M) in tidal waters or > 676 ppb (PEC) in free-flowing waters, and/or benthic monitoring rating Fair or Fair-Poor (moderate impairment) but not identified on 303d listing, identifiable reductions in aquatic life population densities or diversity.
- 4 = Significant anthropogenic impairment, and/or PCB concentration > 1800 ppb (ER-M X 10¹) in tidal waters or > 6760 ppb (PEC X 10¹) in free-flowing waters, benthic monitoring rating Fair or Fair-Poor (moderate impairment) and IS identified on current 303d listing, identifiable reductions in aquatic life population densities or diversity which has effect on aquatic community.
- 5 = Severe anthropogenic impairment, and/or PCB concentration > 18000 ppb (ER-M X 10²) in tidal waters or > 67600 ppb (PEC X 10²) in free-flowing waters, benthic monitoring rating Poor (severe impairment) and IS identified on current 303d listing, identifiable reductions in aquatic life population densities or diversity which has irreplaceable/permanent effect on aquatic community.

G.3. : AQUATIC LIFE PROTECTION - PROBABILITY TO CONTROL THE SOURCE

- 0 = NOT APPLICABLE, no impairment.
- 1 = Very low probability (considered none) to control problem.
- 2 = Low probability of control, technology does not exist, extremely difficult to apply existing technology, undefined NPS sources.
- 3 = Moderate probability of control, TMDL scheduled for development, technology exists, difficult/impractical to apply existing technology.
- 4 = High probability of control, TMDL scheduled within 5 yrs., technology applied successfully elsewhere.
- 5 = Control mechanisms being developed for sources with high probability of control.

G.4. : AQUATIC LIFE PROTECTION - PUBLIC / POLITICAL CONCERN

- 0 = NOT APPLICABLE, No Aquatic Life Use.
- 1 = Very low public / political concern related to Aquatic Life Protection.
- 2 = Low public / political concern related to Aquatic Life Protection.
- 3 = Moderate public / political concern related to Aquatic Life Protection.
- 4 = High public / political concern related to Aquatic Life Protection.
- 5 = Very High public / political concern related to Aquatic Life Protection.

G.5. : AQUATIC LIFE PROTECTION - URGENCY to ADDRESS PROBLEM

- 0 = NOT APPLICABLE, no impairment or aquatic life resource does not apply.
- 1 = Very low/no urgency, not listed as threatened (303d), no significant impacts of impairment.
- 2 = Low urgency for control, listed as threatened (303d), possible significant impacts of impairment not yet experienced.
- 3 = Moderate urgency for control, TMDL scheduled for development, significant impacts of impairment not yet experienced.
- 4 = High urgency for control, TMDL scheduled within 3 yrs., significant impacts of impairment infrequently experienced.
- 5 = Control needed \leq one year, significant health effects or other significant impacts to community due to impairment.

WILDLIFE PROTECTION

H.1. : WILDLIFE PROTECTION - DESIGNATED USE IMPORTANCE

- 0 = NOT APPLICABLE, No known wildlife use occurs.
- 1 = Waterbody with little wildlife present, conditions not conducive to significant wildlife populations, including urban land use.
- 2 = Minimally significant wildlife populations, natural conditions do not support significant wildlife nursery, no significant recreational hunting, no endangered, threatened, or special interest terrestrial, avian or waterfowl species.
- 3 = Moderately significant wildlife populations, natural conditions would support significant wildlife nursery, moderately significant recreational hunting, no endangered, threatened, or special interest terrestrial, avian or waterfowl species, information of significant wildlife populations occurs seasonally.
- 4 = Significant wildlife populations, natural conditions have historically supported significant wildlife nursery, significant recreational hunting, or few number or few members of endangered, threatened, or special interest terrestrial, avian or waterfowl species.
- 5 = Significant wildlife populations, established as a significant wildlife nursery, renowned recreational hunting, or many number or many members of endangered, threatened, or special interest terrestrial, avian or waterfowl species, loss of aquatic life populations resource would be irreplaceable.

H.2. : WILDLIFE PROTECTION - DEGREE of USE IMPAIRMENT

- 0 = NOT APPLICABLE, no known wildlife impairment.
- 1 = Impairment not due to anthropogenic causes, natural conditions not conducive to wildlife use.
- 2 = Minimally significant anthropogenic impairment to wildlife use, combination with #1.
- 3 = Moderately significant anthropogenic impairment to wildlife use.
- 4 = Significant anthropogenic impairment to wildlife use.
- 5 = Severe anthropogenic impairment to wildlife use.

H.3. WILDLIFE PROTECTION - PROBABILITY TO CONTROL THE SOURCE

- 0 = NOT APPLICABLE, no known wildlife impairment.
- 1 = Very low probability (considered none) to control problem.

- 2 = Low probability of control, technology does not exist, extremely difficult to apply existing technology, undefined NPS sources.
- 3 = Moderate probability of control, TMDL scheduled for development, technology exists, difficult/impractical to apply existing technology.
- 4 = High probability of control, TMDL scheduled within 5 yrs., technology applied successfully elsewhere.
- 5 = Control mechanisms being developed for sources with high probability of control.

H.4. : WILDLIFE PROTECTION - PUBLIC / POLITICAL CONCERN

- 0 = NOT APPLICABLE, no known wildlife impairment.
- 1 = Very low public / political concern related to Wildlife Protection.
- 2 = Low public / political concern related to Wildlife Protection.
- 3 = Moderate public / political concern related to Wildlife Protection.
- 4 = High public / political concern related to Wildlife Protection.
- 5 = Very High public / political concern related to Wildlife Protection.

H.5. : WILDLIFE PROTECTION - URGENCY to ADDRESS PROBLEM

- 0 = NOT APPLICABLE, no known wildlife impairment.
- 1 = Very low/no urgency, not listed as threatened (303d), no significant impacts of impairment.
- 2 = Low urgency for control, listed as threatened (303d), possible significant impacts of impairment not yet experienced.
- 3 = Moderate urgency for control, TMDL scheduled for development, significant impacts of impairment not yet experienced.
- 4 = High urgency for control, TMDL scheduled within 3 yrs., significant impacts of impairment infrequently experienced.
- 5 = Control needed \leq one year, significant adverse impacts to wildlife community due to impairment.