

# Surface Drain – Main or Lateral: Table 1 Summary of Effects to Atlantic Salmon

## Practice Information

This practice is used in conjunction with Surface Drainage, Field Ditch, or Subsurface Drain for conveyance and disposal of excess surface and subsurface water and control of groundwater levels.

Sites for this practice are suitable for agriculture and have an outlet for the drainage water by either gravity or pumping. Mains and laterals are located and designed to serve as integral parts of a surface or sub-surface drainage system that meets conservation and land use needs.



Network Diagram Effect Number	Life cycle affected:	Effect on Essential Fish Habitat (EFH):	Essential Fish Habitat Conservation Measures (CMs):	Effect on EFH (with CMs):
D.1 Increase in surface water runoff	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May Adversely Affect: Short-term potential for pollutant delivery during construction and/or whenever area is used by machinery	Erosion and Sediment Control Measures, Streambank and Shoreline Protection, Filter Strip installed to reduce dissolved contaminant and sediment loadings in runoff	No adverse effect
D.2 Increase in off-site surface water	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May Adversely Affect: increased peak flows result in increased suspended sediment from gully and streambank erosion	Runoff Control Measures: Flow from field ditches returned using low gradients to minimize cumulative effects to peak flow events,	No adverse effect
D.3 Decrease in subsurface water level	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None, limited emplacement of field ditches; drainage area not a significant portion of stream flow volumes	Runoff Control Measures: Flow from field ditches returned to existing drainage to minimize cumulative effects to peak flow events,	No adverse effect
I.3 Increase in off-site surface water	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect due to full mitigation of all adverse effects	Runoff Control Measures: Flow from field ditches returned using low gradients to minimize cumulative effects to peak flow events,	No adverse effect

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<b>Network Diagram Effect Number</b>	<b>Life cycle affected:</b>	<b>Effect on Essential Fish Habitat (EFH):</b>	<b>Essential Fish Habitat Conservation Measures (CMs):</b>	<b>Effect on EFH (with CMs):</b>
I.4 Increase in soil erosion	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May Adversely Affect: Long-term potential for pollutant delivery during high channel flow events	Erosion and Sediment Control Measures, Streambank and Shoreline Protection, Filter Strip, Critical Area Treatment installed to reduce dissolved contaminant and sediment loadings in runoff; Minimize crossing use during high flow	No adverse effect
I.5 Decrease and increase in contaminants, pathogens, sediments to receiving waters	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect due to full mitigation of all adverse effects	Erosion and Sediment Control Measures, Streambank and Shoreline Protection, Filter Strip, Critical Area Treatment installed to reduce dissolved contaminant and sediment loadings in runoff; Minimize crossing use during high flow	No adverse effect
C.1 Decrease and increase in quality of surface waters and aquatic habitats	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect due to full mitigation of all adverse effects	Erosion and Sediment Control Measures, Streambank and Shoreline Protection, Filter Strip, Critical Area Treatment installed to reduce dissolved contaminant and sediment loadings in runoff; Minimize crossing use during high flow	No adverse effect
C.2 Decrease and increase in fishable and swimmable waters; health and safety issues for humans, domestic and wild animals	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect due to full mitigation of all adverse effects	Erosion and Sediment Control Measures, Streambank and Shoreline Protection, Filter Strip, Critical Area Treatment installed to reduce dissolved contaminant and sediment loadings in runoff; Minimize crossing use during high flow	No adverse effect