Water Well: Table 1 Summary of Effects to Atlantic Salmon

Practice Information

This practice applies on all sites where the underground supply of water is sufficient in quantity and quality for the intended purpose. Monitoring or observation wells or wells installed for injection purposes are not included.

This practice requires proper design and installation to function properly. If practicable, wells should be located in higher ground and up gradient from sources of contamination or flooding. The potential for adverse interference with existing nearby production wells should be evaluated in planning. Other concerns that should be considered in planning include the potential for groundwater overdraft, the long-term safe yield of the aquifer, and potential effects of installation and operation of the well on cultural, historical, archeological, or scientific resources at or near the site.

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.3 Increase in potential for contamination	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May Adversely Affect: Long-term potential for pollutant delivery from surface applied agrichemicals near well	Proper siting of well, well head protection measures, and use of backflow devices	No adverse effect
D.4 Decrease in use of existing surface water sources	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No adverse effect
I.5 Decrease in groundwater levels	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May Adversely Affect: decrease in surface or groundwater due to increased use of water for irrigation or consumptive use	Hydrogeological investigations of siting, aquifer and proximity to stream evaluated	No adverse effect

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Network Diagram Effect Number	**Life cycle affected:**	**Effect on Essential Fish Habitat (EFH):**	**Essential Fish Habitat Conservation Measures (CMs):**	**Effect on EFH (with CMs):**
I.6 Decrease and increase in stream baseflow	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May Adversely Affect: decrease in surface waters due to increased use of water for irrigation or consumptive use	Hydrogeological investigations of siting, aquifer characteristics and proximity to stream evaluated for connectivity to well.	No adverse effect
I.7 Increase in quality of surface waters and aquatic habitats	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No adverse effect
C.1 Increase in fishable and swimmable waters and health and safety issues for humans, domestic and wild animals	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No adverse effect
C.2 Increase of local drawdown of aquifer	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect due to full mitigation of all adverse effects	none	No adverse effect