










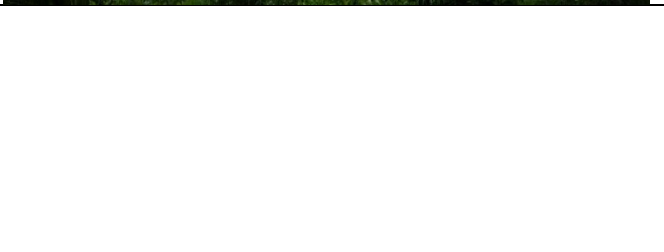


Table. Lizard Creek --Existing and Potential Wetland areas post-inundation-below R-1					
Wetland #	Existing area (ha)	Wetland type	impact	mitigation	
					Lower Lizard Lake and Lizard Creek watercourse will see an increase in water levels from inundation of up to 2.5 metres with levels of headpond between 233.1 and 233.6 being maintained
LLIZ-01	0.258	Forb meadow marsh	Flooding of entire meadow marsh except belt of speckled alder at upper edge -increase of 1.8 m of water	-regeneration of wetland at new shoreline and expansion of existing alder thicket at upper edge(see WPC-07)-0.081 ha	
LLIZ-02	0.0665	Forb meadow marsh	Flooding of most of wetland	-some riparian vegetation may re-establish post-flooding at new shoreline	
LLIZ-03	0.0786	Forb meadow marsh	Flooding of most of wetland	-some riparian vegetation may re-establish post-flooding	
TOTAL	0.4031				

LIZC-01	0.522	<ul style="list-style-type: none"> -Forb meadow marsh -sedge mineral meadow marsh -beaver pond -mixed swamp 	Flooding of entire wetland	<ul style="list-style-type: none"> -new wetland at upper end of flooding on shallow slopes and semi-open forest (see WPC-01)0.579 ha 		
LIZC-02	0.427	<ul style="list-style-type: none"> Beaver meadow -grasses, sedges, ferns, emergent marsh 	Flooding of entire wetland	-none		

<p>LIZC-03</p>	<p>0.208</p>	<p>-thicket swamp -mixed swamp</p>	<p>-flooding of entire wetland</p>	<p>-new wetland at upper end of flooding on shallow slopes and semi-open forest (see WPC-02)-0.181 ha</p>	
<p>LIZC-04</p>	<p>0.630</p>	<p>-thicket swamp -deciduous swamp -sedge marsh -in old beaver pond</p>	<p>-flooding of entire wetland</p>	<p>-new wetland at upper end of flooding on shallow slopes and semi-open forest (see WPC-03)-0.271 ha</p>	

LIZC-05	0.279	-ne sedge meadow marsh -forb meadow marsh	-flooding of entire wetland	-none	
LIZC-06	0.0705	-sedge meadow marsh	-flooding of entire area	-new wetland at upper end of flooding on shallow slopes along tree line (see WPC-04) -0.132 ha	

LIZC-07	3.229	Beaver pond -dead trees, submergents -sedge meadow/sweetgale swamp at west end	Inundation only 20 cm above current pond elevation -loss of vegetation in most of community -beaver dam to be removed	-regeneration of swamp and marsh in west end of wetland from seedbank and shallow water depths -inundation depth will only change depth by 0-20 cm. (see WPC-05) -0.53 ha	
LIZC-08	1.481	-sedge meadow marsh -sweet gale shrub thicket swamp	-flooding of entire area	-steep slopes along most of inundation line but possible riparian shrubs will regenerate at new shoreline such as sweetgale	
LIZC-09	1.404	-beaver pond -open swamp and meadow marsh	-beaver pond located at headwaters of small tributary to be flooded and drain into the canal	-wetland to re-establish in shallow waters (see WPC-08) -0.542 ha	

			downstream of the control structure -slight increase in water levels from impoundment		
TOTAL	8.6536 ha				
Net loss	5.286 ha				

Potential new wetland areas post-inundation in area below R-1

Wetland #	Potential new wetland area	Potential Wetland type	rationale
WPC-01	0.579 ha	Sedge marsh or thicket shrub swamp	-the area is currently a mixed forest with some openings. Location at end of new bay, presence of existing beaver ponds and swamp, high seed bank, southwest exposure, protection from wind and wave action and gradual slopes will create conditions favourable for wetland development. Species likely sweetgale, tussock sedge, ferns and grasses and pickerel weed.
WPC-02	0.181 ha	Thicket shrub swamp	-area currently forested with swamp wetland on narrow valley with central channel. Location at end of new bay, protection from wind and wave action, high seed bank in area, gradual slopes at outer edge of new bay, removal of existing trees in cut area, presence of

			existing swamp habitat will create favourable conditions for wetland development. Species likely sweet gale and pickerel weed.
WPC-03	0.2710 ha	Thicket shrub swamp	-the area is currently a mixed forest with some openings. Location at end of new bay, presence of existing swamp, high seed bank, protection from wind and wave action and gradual slopes will create conditions favourable for wetland development. Species likely sweetgale, tussock sedge, ferns and grasses and pickerel weed.
WPC-04	0.132 ha	Thicket swamp edge and open water emergent marsh	-the area is currently mixed forest with a small swamp/marsh community. Presence of existing wetland, high seed bank, protection from wind and wave action and gradual slopes will create conditions favourable for wetland development. Species likely sweetgale, tussock sedge, ferns and grasses and pickerel weed.
WPC-05	0.53 ha	Sedge marsh, forb marsh,	The area is currently at the end of an active beaver pond but has developed into a large floating marsh dominated by sedges and some succession to sweet gale. Beaver dam currently 1.8 m high and at elevation of 233.4. This is only 20 cm lower than the proposed maximum headpond elevation. As such it is likely the wetland will be maintained post-inundation especially if the floating mat can extend to the surface and the plants adjust to the

			higher water levels. The wetland area may be larger, depending on the water levels in the pond.
WPC-06	0.022 ha	Riparian marsh-royal fern and sweet gale/speckled alder	-small area at end of embayment may develop a narrow band of marsh or swamp habitat. Currently there is no wetland in this location. Protection from wind and south exposure will create conditions favourable for wetland formation.
WPC-07	0.081 ha	Speckled alder, cinnamon fern or sweet gale shrub swamp	Currently a wetland on the shores of the lake that may have upland seep source that allows a dense cinnamon/royal fern community to maintain once spring water levels recede. A speckled alder swamp and sweet gale swamp at the upper edge of the wetland will be at the waterline post-inundation. That area will continue to be swamp.
WPC-08	0.542 ha	Sweet gale swamp,	Slight increase in water levels in this headwater beaver pond will allow existing shrubs to be maintained at outer edge with meadow marsh and aquatic emergent marsh regenerating due to high seed bank, isolated location, organics present and minor change in water level.
Total Area Of Wetland Post-Inundation	3.369 ha		