



Murray Creek Rehabilitation Project

2011 Annual Report



Murray Creek 2011 Projects

Project Number: 11-01- Before

UTM Coordinates: 10U 429045 5991660

Location: Martens Bull Pasture - Northside Road

General Description and issues: Removal of two undersized and hanging closed bottom culverts and construction of cobble/gravel based crossing using geo-grid.

Future needs: Some fencing is required.

Funder: EDF

Before: One of two undersized and hanging culverts to be removed.



Murray Creek 2011 Projects

Project Number: 11-01- after

Location: 10U 429045 5991660

Outcomes: Two undersized and hanging closed bottom culverts removed, and a cobble/gravel based crossing completed successfully. Approximately 300m of stream upstream of culvert is now accessible to fish.

Investment:

Funders' investment:

Landowner investment: NA

Donations:

Total Investment:

After: Two undersized and hanging culverts removed and a drain rock/cobble crossing constructed.



Murray Creek 2011 Projects

Project Number: 11-02 - Before

UTM Coordinates: 10U 430439 5993790

Location: Dale Marten, Loop Road.

General Description and issues: Removal of one undersized closed bottom culvert and construction of streambed prior to installation of an 1828mm Span x 914mm Rise m open bottom culvert.

Future needs:

Funder:

Before: One undersized culvert to be removed



Murray Creek 2011 Projects

Project Number: 11-02- After

Location: 10U 430439 5993790

Outcomes: Removal of an undersized closed bottom culvert and installation of an 1828mm Span x 914mm Rise m open bottom culvert. Approximately 800m of stream upstream of culvert is now accessible to fish.

Investment:

Funders' investment:

Landowner investment:

Donations: Arch Culvert

Total Investment:

After: Installation of an 1828mm Span x 914mm Rise m open bottom culvert.



Murray Creek 2011 Projects

Project Number: 11-03- Before

UTM Coordinates: 10U 430682 5988272

Location: Gaylon McKee, East of Loop Road.

General Description and issues: A combination of grazing activity, fine glacial-lacustrine bank material and the blowout of a beaver dam have contributed to lateral stream movement and erosion of the stream bank in several places. The prescription included strategically placing rock armoring on the stream bank for increased structural integrity, and the planting of native (willow) and grass species, to prevent further erosion and sediment distribution downstream.

Future needs: Stream should be fenced to keep cattle away from stream banks.

Funder:

Before: Undercutting of stream banks & extensive cattle use eroding stream banks.



Murray Creek 2011 Projects

Project Number: 11-03- after

Location: Gaylon McKee, East of Loop Road

Outcomes: Approximately 110m of stream bank was armored and stabilized preventing further erosion and sediment deposition.

Investment:

Funders' investment:

Landowner investment: NA

Donations: NA

Total Investment:

After: Set back armoring riprap construction of stream banks in problem areas.



Murray Creek 2011 Projects

Project Number: 11-04 - Before

UTM Coordinates: 10U 434599 5992137

Location: Sylvia Price – McLeod Road

General Description and issues: Removal of three undersized closed bottom culverts and construction of streambed prior to installation of a 2438mm Span x 1219mm Rise Dur-A-Span Arch

Future needs: Fencing off of Murray Creek scheduled for December 2011. Additional deciduous cuttings and conifers will need to be planted.

Funder: EDF Fund

Before: Three culverts in various stages of erosion were removed



Murray Creek 2011 Projects

Project Number: 11-04 - after

Location: Sylvia Price – McLeod Road

Outcomes: 3 undersized culverts removed, and installation of a 2438mm Span x 1219mm Rise Dur-A-Span Arch. Approximately 650m of stream upstream of culvert is now accessible to fish.

Investment:

Funders' investment:

Landowner investment: NA

Donations: Arch Culvert

Total Investment:

After: Arch culvert installed and erosions from cattle and banks were rocked to repair erosions above and below this new installation.



Murray Creek 2011 Projects

Project Number: 11-05 - Before

UTM Coordinates: 10U 430346 5989240

Location: Kevin Bailey's property, approx. 5km from Vanderhoof, East off of Loop road

General Description and issues: An existing crossing was in poor condition. A prescription to upgrade and construct a cobble/gravel based crossing provided a hardened watering site for livestock to drink and cross at the stream, and will allowed for infrequent crossing of farm equipment.

Future needs:

Funder:

Before: The Murray Creek crossing on Kevin Bailey's property pre-work.



Murray Creek 2011 Projects

Project Number: 11-05 - after

Location: Kevin Bailey's property, approx. 5km from Vanderhoof, East off of Loop road

Outcomes: Crossing upgrade completed successfully, permitting the reduction of erosion and sediment deposition from unfettered livestock access to the stream.

Investment:

Funders' investment:

Landowner investment: NA

Donations: NA

Total Investment:

After: The Murray Creek crossing on Kevin Bailey's property post-work.



Murray Creek 2011 Projects

Project Number: 11-06- Before

UTM Coordinates: 10U 429988 5990082

Location: John Bailey's property, approx. 6km from Vanderhoof, East off of Loop road.

General Description and issues: An existing crossing was in poor condition. A prescription to upgrade and construct a cobble/gravel based crossing provided a hardened watering site for livestock to drink and cross at the stream.

Future needs: This section of stream should be fenced except at the crossing and more willow staking would help stabilize stream banks.

Funder:

Before: An existing crossing used by livestock that is contributing sediments into the stream.



Murray Creek 2011 Projects

Project Number: 11-06 - after

Location: John Bailey's property, approx. 6km from Vanderhoof, East off of Loop road.

Outcomes: Crossing upgrade completed successfully, permitting the reduction of erosion and sediment deposition from unfettered livestock access to the stream.

Investment:

Funders' investment:

Landowner investment: NA

Donations:

Total Investment:

After: Hardened crossing of drain rock and cobble.

