

DITCH INSPECTION FORM

DITCH NAME Winter Ditch Project

TYPE 1515

OVERALL RATING

RECONST DATE 2000

LAST EXC

5 EXCELLENT

4 GOOD

3 FAIR

2 POOR

1 VERY POOR

0+00 STA 16 Carroll

LENGTH 13375'

ASSESSMENT BASE \$196,773.22

CURRENT CONDITION AND PLAN OF ACTION

| | | |
|----------------|--|---|
| SEDIMENT | <input type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> BOTTOM EXCAVATION 5-10 YRS <input type="checkbox"/> NEEDS EXCAVATION SOON | more at lower end since the storage area acts as a settling basin |
| BANK STABILITY | <input checked="" type="checkbox"/> BANKS GOOD <input type="checkbox"/> BANKS STEEP LESS THAN 1.5:1 <input type="checkbox"/> RIP RAP NEEDED | |
| OUTLET PIPES | <input checked="" type="checkbox"/> GOOD CONDITION <input type="checkbox"/> NEED REPAIR | |
| VEGETATION | <input type="checkbox"/> GOOD CONTROL <input type="checkbox"/> NEEDS MOWING <input checked="" type="checkbox"/> BRUSH <input checked="" type="checkbox"/> CATTAILS <input checked="" type="checkbox"/> PHRAGMITIES | On going spot spray of phragmitie, cattails and brush |
| FUTURE | 2019 spot spray routine pump maint | 2020 spot spray and routine pump maint |

The Winter Ditch Drainage Project consists of seven separate components, 6 open channel reaches and a pump system. For the purpose of this report they are all combined but any cost estimates are shown as individual items for each separate component. This project provides drainage and some flood control for approx 1100 acres of roads, house lots and farmland. There is a gravity pipe with flood gate that can handle some storm flow as long as the Toussaint River is not too high. Usually when this gate is working some of the lower areas are flooded. The lower end of the main channel and many times the entire open ditch system is a storage system for the pump. This in effect makes the open ditch system a settling basin and increases the rate of sedimentation. The pumps and related components are currently in good shape but they can and have failed with little or no warning. Two motors were purchased in 2014, one as a replacement and one is in storage as a spare. Some light brush. Cattails and phragmities continue to be a problem. Mowing is limited to filter strips and any areas where any residue will not float when the ditch is filled and transport the residue to the pumps. This will continue to be a high cost maintenance project. The biggest cost is the electric. Pump rebuilds and new motors are also a high dollar item. This project also requires frequent, sometimes daily visits to make sure everything is operating during cold weather and storm events. In the winter at least one pump must be kept ice free. During storm events the pumps must be kept free of trash and vegetative residue. This is an ongoing process. During some storm events the flood gate opens for gravity flow and then fails to seal properly. Brush and aquatic spray as needed on channels and routine pump maint for 2019.

DATE INSPECTED: 3.1.2018

INSPECTED BY:

Mike Gargac & Jarred Molesky