

## **APPENDIX E**

### **On-the-Ground Watershed Investigation Observations**

## Lake Waynoka Watershed Investigation

Conducted 7-7-11 by Terry O'Malley and Jennie Morgan

<b>Location</b>	<b>Observation</b>
Sioux Cove	erosion of shoreline along the boat docks due to waves produced by passing speed boats
Sioux Cove, Lot 759	under construction, most of silt fence is in place, but there is a 20' gap along the lake
Lot 838	bare ground with no silt fence
Cove 6	A new dock was installed in spring 2011, in April the area was exposed mud, now it is graveled
Cove 6, 2 houses north of Tim Reddick	new construction with lawn 60% established, no silt fence
Straight Creek watershed	bean fields on either side of Straight Creek east of Waynoka Dr. large low spot on west side of Straight Cr. In bean field, draining to creek
Cove 8	well vegetated tributary draining to well vegetated ditch a resident on Itawamba Cv. Informed us that the road floods in the spring and that a larger culvert is needed
Pontiac Cove	house 2 lots east is under construction can't tell if it has erosion control
Cove 11	420 Waynoka Dr. has silt fence along lake, but none on the sides of the lot, or along a dirt pile that backs up to the ditch lots 432, 434, 436, 438 are all under construction and have no silt fence along the front or sides; can't see the rear (which is along the lake) from the street
Possum Cove	one new lot with no silt fence in front

## **APPENDIX F**

### **Sediment Sampling Observations**

**Lake Waynoka Sediment Sampling Observations**

Samplers: Mark Dille, Jennie Morgan, Lauren Harvey, George Kinney

Sample Date: 8/3/2011

<b>Cove</b>	<b>Location within Cove</b>	<b>Observations of Cores</b>
Cove 4	Point 1: at cove head  Point 2:  Point 3:	core 1: all leaves, lots of gas release, can't collect core sample core 1: 15", few leaves, not much gas core 1: 12", no leaves or gas, very dark sediment
Cove 6	Point 1: area excavated in 2010 for a dock Point 2: outside excavated area	core 1: 6", mostly clay and sand 6' of soft material 5.5", sandy
Sioux Cove	Point 1:  Point 2:	core 1: 3.5" gray, clay core 2: 3.5" gray, clay core 1: 5", 2.5" of sand, 2.5" clay
Straight Creek	Point 1: head of cove        Point 2: midpoint of cove   Point 3: closer to lake body	core 1: 6", sand rest of cores were unsuccessful because sand was unconsolidated and ran out of tube 4' to hardpan collected three cobbles w/ bucket measuring 5", 2", 3" sediment samples were very sandy  core 1: 1", mostly sand, unconsolidated some silt on top of sand and gravel core 1: 5", mostly sand, some silt

Cove 8	Point 1:	core 2: 10" core 1: 5", lots of organics and sand
	Point 2:	core 1: 5"
	Point 3:	core 1: 10" with lots of organics core 2: 10" with lots of organics
Cove 11	Point 1: @ head of cove	one, 1" plug 5" plug 3.5" plug
	Point 2: in front of construction site	core 1: 7.5", mostly dark w/ grey streaks core 2: 8" core 3: 9"
Cove 13	Point 1:	core 1: 4.5" sandy on bottom & darker on top core 2: 11": bottom 6" is sand, top 5" dark, organic matter
	Point 2:	core 1: 6", bottom 3" mix of organic matter & sand, top 3" mostly sand
	Point 3:	core 1: 3" mostly sandy core 2: 3.5" with 0.5" sand on top and 3" clay below