

Appendix A. River corridor severity scores for impaired sites in the Yellow River Basin, Alabama and Florida

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
ok-1105-001	1	1	1	0.75	0.75	0.75	0.25	1.5	0	1.5	1.5	1	1.5	<b>12.5</b>
wa-1007-001	1	1.5	1.5	0.75	0.75	0.75	0.75	1.5	0	0	1	1	1.5	<b>12</b>
ok-0423-001	1.5	1.5	1	0	0.75	0	0.75	1.5	0	1.5	1.5	1	0	<b>11</b>
wa-1026-001	1	1.5	1	0.75	0.75	0.75	0.25	1.5	0	0	1	0.5	1.5	<b>10.5</b>
ok-0928-001	0.5	1.5	0.5	0.75	0.75	0.25	0.25	1.5	0	0	1	1	1.5	<b>9.5</b>
ok-0928-004	1.5	1	1	0.75	0.75	0.25	0.25	1.5	0	0	1	1	0	<b>9</b>
ok-0225-005	0.5	1.5	0	0.75	0	0.75	0	1.5	0	1.5	0.5	1	0	<b>8</b>
ok-0615-001	1	1.5	1	0	0.75	0.25	0	1.5	0	0	1	0.5	0	<b>7.5</b>
wa-1105-004	0	1	1	0.5	0.5	0	0	1.5	1.5	0	0	0	1.5	<b>7.5</b>
co-0813-004	1.5	1	0	0	0.75	0	0.75	0	0	0	1.5	1.5	0	<b>7</b>
ok-0423-003	1	1	1	0.75	0.75	0.25	0.25	0	0	0	1	1	0	<b>7</b>
ok-1106-001	0.5	1.5	1	0.75	0.75	0	0	1.5	0	0	0	1	0	<b>7</b>
wa-1007-003	0.5	1	1	0.75	0.75	0	0	1.5	0	0	1	0.5	0	<b>7</b>

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
ok-0225-002	0.5	1.5	0	0.75	0	0	0	1.5	0	1.5	0.5	0.5	0	<b>6.75</b>
wa-0720-001	1	1.5	0.5	0	0.75	0	0	1.5	0	0	0.5	1	0	<b>6.75</b>
ok-0423-004	1	0	0	0.75	0.75	0.75	0.75	0	0	0	1.5	1	0	<b>6.5</b>
ok-1105-002	1.5	0	0	0.25	0.75	0.25	0.75	0	0	0	1.5	1.5	0	<b>6.5</b>
sr-0304-001	0	1.5	0	0.75	0	0	0	1.5	0	1.5	0.5	0.5	0	<b>6.25</b>
sr-0305-001	1	1.5	0	0.75	0	0	0	1.5	0	0	1	0.5	0	<b>6.25</b>
co-0819-002	0.5	1.5	0.5	0.75	0.75	0	0	1.5	0	0	0	0.5	0	<b>6</b>
wa-1026-002	1.5	0.5	0	0	0.75	0	0.75	0	0	0	1.5	1	0	<b>6</b>
ok-0225-001	0.5	1	0	0	0.75	0	0	1.5	0	0	1	1	0	<b>5.75</b>
ok-0422-007	0.5	1	0	0.5	0.75	0	0.25	0	0	1.5	0.5	0.5	0	<b>5.5</b>
wa-1009-002	0.5	1	1	0.25	0.25	0.25	0.25	1.5	0	0	0.5	0	0	<b>5.5</b>
co-0807-008	1	1	0	0	0	0	0.25	1.5	0	0	1	0.5	0	<b>5.25</b>
co-0824-002	0.5	1	0	0.75	0	0	0	1.5	0	0	1	0.5	0	<b>5.25</b>
ok-0319-001	0.5	1	0	0	0.75	0	0	1.5	0	0	1	0.5	0	<b>5.25</b>
ok-0424-004	1	1	0	0	0	0	0.25	1.5	0	0	1	0.5	0	<b>5.25</b>

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
co-0807-009	1	0	0	0.75	0	0.75	0	0	0	0	1.5	1	0	5
ok-0424-003	0.5	1	0	0	0.75	0	0.25	0	0	1.5	0	1	0	5
ok-0608-001	1	0	0	0	0.75	0	0.75	0	0	0	1.5	1	0	5
ok-0615-008	1	0	0	0	0.75	0	0.75	0	0	0	1	1.5	0	5
wa-1007-002	0.5	1.5	0.5	0.25	0.25	0	0	1.5	0	0	0	0.5	0	5
ok-0319-006	1.5	0	0	0	0.5	0	0.25	0	0	0	1.5	1	0	4.75
ok-0416-003	1.5	0	0	0	0	0.75	0	0	0	0	1.5	1	0	4.75
ok-0615-007	1	0	0	0.75	0	0.75	0.25	0	0	0	1	1	0	4.75
ok-1105-003	1	0	0	0.25	0.75	0	0.75	0	0	0	1	1	0	4.75
wa-1028-001	1	0	0	0.75	0	0.75	0.25	0	0	0	1	1	0	4.75
co-0924-002	1	1	0	0	0	0	0	0	0	0	1.5	1	0	4.5
co-0924-003	0.5	0	0.5	0.75	0	0.25	0	1.5	0	0	0	1	0	4.5
ok-0615-006	1	0	0	0.75	0	0.75	0	0	0	0	1	1	0	4.5
ok-0616-006	1.5	0	0	0	0	0.25	0.25	0	0	0	1.5	1	0	4.5
ok-0616-008	1	0	0	0.75	0.75	0.25	0.25	0	0	0	0.5	1	0	4.5

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
ok-1007-004	0.5	1	0.5	0.25	0.25	0	0	1.5	0	0	0	0.5	0	4.5
wa-0720-003	0.5	0.5	0	0.75	0	0.75	0	0	0	0	1	1	0	4.5
wa-1009-003	1	0	0	0.75	0	0.75	0	0	0	0	1.5	0.5	0	4.5
wa-1028-002	1	0	0	0.75	0	0.75	0	0	0	0	1	1	0	4.5
co-0610-001	0.5	1.5	0	0.75	0	0	0	0	0	0	1	0.5	0	4.25
ok-0609-012	1	0	0	0	0	0.25	0	1.5	0	0	1	0.5	0	4.25
ok-0615-004	1	0	0	0.75	0.75	0.25	0.25	0	0	0	1	1	0	4.25
ok-0615-014	0.5	1.5	0	0.75	0.75	0.25	0	0	0	0	0.5	0	0	4.25
sr-1006-001	0.5	1	0	0.75	0.75	0	0	1.5	0	0	0	0.5	0	4.25
ok-0416-001	1.5	0	0	0	0	0	0	0	0	0	1.5	1	0	4
ok-0424-002	0	1	0	0.75	0.75	0	0.25	1.5	0	0	0	0.5	0	4
ok-0424-006	1.5	0	0	0.75	0	0	0.25	0	0	0	1	0.5	0	4
ok-0608-007	1	0	0	0.75	0.75	0	0.25	0	0	0	1	1	0	4
ok-0615-010	1	0	0	0.75	0	0.75	0	0	0	0	0.5	1	0	4
ok-0616-002	1	0	0	0.75	0.75	0	0.75	0	0	0	0.5	1	0	4

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
ok-1022-001	1	0	0	0.75	0	0.75	0	0	0	0	1	0.5	0	4
co-0805-005	1	0	0	0	0.5	0	0.25	0	0	0	1	1	0	3.75
co-0923-003	1.5	0	0	0	0	0	0.25	0	0	0	1	1	0	3.75
ok-0319-002	0.5	1	0	0	0.75	0	0	0	0	0	1	0.5	0	3.75
ok-0922-003	0.5	1.5	0	0	0.25	0	0	1.5	0	0	0	0	0	3.75
co-0923-001	1	0	0	0	0.75	0	0.25	0	0	0	1	0.5	0	3.5
ok-0225-003	1	0.5	0	0	0	0	0	0	0	0	1	1	0	3.5
ok-0421-003	1	0	0	0	0.75	0	0.75	0	0	0	0	1	0	3.5
ok-0615-005	1	0	0	0	0	0.25	0.25	0	0	0	1	1	0	3.5
ok-0615-011	1	0	0	0.75	0	0.75	0	0	0	0	0.5	0.5	0	3.5
wa-0720-002	1	0.5	0	0.75	0	0.25	0	0	0	0	0.5	0.5	0	3.5
co-0813-003	1	0	0	0.75	0	0	0	0	0	0	1	0.5	0	3.25
ok-0423-007	1.5	0	0	0.75	0	0	0	0	0	0	0	1	0	3.25
co-0807-001	0.5	0	0	0	0.25	0	0.25	0	0	0	1	1	0	3
ok-0615-003	1	0	0	0	0.75	0	0.25	0	0	0	0	1	0	3

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
ok-0616-001	0.5	0	0	0.75	0	0.25	0	0	0	0	0.5	1	0	3
ok-0616-007	1	0.5	0	0	0	0	0	0	0	0	0.5	1	0	3
ok-0922-001	0.5	0.5	0	0	0	0	0	0	1.5	0	0	0.5	0	3
ok-0922-002	0.5	0	0	0.75	0	0.75	0	0	0	0	0.5	0.5	0	3
wa-0721-001	0.5	1	0	0	0.25	0	0.25	0	0	0	0.5	0.5	0	3
co-0807-006	0.5	0	0	0	0	0	0.25	0	0	0	1	1	0	2.75
co-0924-004	1	0	0	0	0	0.25	0	0	0	0	1	0.5	0	2.75
ok-0422-006	0.5	1.5	0	0	0.75	0	0	0	0	0	0	0	0	2.75
ok-0609-011	1	0	0	0	0	0	0.25	0	0	0	1	0.5	0	2.75
ok-0609-014	1	0	0	0	0	0	0.25	0	0	0	1	0.5	0	2.75
ok-0615-009	1	0	0	0	0	0.25	0	0	0	0	1	0.5	0	2.75
ok-0928-002	0.5	1.5	0	0	0.25	0	0	0	0	0	0	0.5	0	2.75
co-0807-003	0.5	0	0	0	0.25	0	0.25	0	0	0	1	0.5	0	2.5
co-0813-001	0.5	0	0	0	0	0	0	0	0	0	1	1	0	2.5
co-0824-004	0.5	0	0	0.5	0	0	0	0	0	0	1	0.5	0	2.5

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
ok-0224-001	1	0	0	0	0	0	0	0	0	0	1	0.5	0	2.5
ok-0319-007	1	0	0	0	0	0	0	0	0	0	1	0.5	0	2.5
ok-0423-008	1.5	0	0	0	0	0	0	0	0	0	0	1	0	2.5
ok-0424-005	1.5	0	0	0	0	0	0	0	0	0	0	1	0	2.5
ok-0424-008	1.5	0	0	0	0	0	0	0	0	0	0	1	0	2.5
ok-0424-009	1.5	0	0	0	0	0	0	0	0	0	0	1	0	2.5
ok-0609-015	1	0	0	0	0	0	0	0	0	0	1	0.5	0	2.5
ok-0616-004	1	0	0	0	0	0.25	0.25	0	0	0	0.5	0.5	0	2.5
ok-0616-005	0.5	0.5	0	0	0	0.25	0.25	0	0	0	0.5	0.5	0	2.5
co-0805-004	0.5	0	0	0	0	0.25	0	0	0	0	1	0.5	0	2.25
co-0924-001	0.5	0	0	0	0	0.25	0	0	0	0	1	0.5	0	2.25
wa-1026-003	0.5	0	0	0	0	0	0.25	0	0	0	1	0.5	0	2.25
wa-1026-004	0.5	1.5	0	0.25	0	0	0	0	0	0	0	0	0	2.25
co-0609-005	1	0	0	0	0	0	0	0	0	0	0	1	0	2
co-0609-007	1	0	0	0	0	0	0	0	0	0	0	1	0	2

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
co-0824-005	0.5	1	0	0	0	0	0	0	0	0	0.5	0	0	2
co-0923-002	0.5	0	0	0	0	0	0	0	0	0	1	0.5	0	2
ok-0422-003	1.5	0	0	0	0	0	0	0	0	0	0	0.5	0	2
ok-0422-005	1.5	0	0	0	0	0	0	0	0	0	0	0.5	0	2
ok-0608-006	0.5	0	0	0.25	0	0	0.25	0	0	0	0.5	0.5	0	2
ok-0616-003	0.5	0	0	0	0	0.25	0.25	0	0	0	0.5	0.5	0	2
ok-0721-003	0.5	0	0	0	0	0	0	0	0	0	1	0.5	0	2
ok-0721-005	0.5	0	0	0	0	0	0	0	0	0	1	0.5	0	2
sr-0305-005	1	0	0	0	0	0	0	0	0	0	0.5	0.5	0	2
wa-0721-002	0.5	0	0	0	0.25	0.25	0	0	0	0	0.5	0.5	0	2
wa-1009-001	0.5	0	1	0	0	0	0	0	0	0	0.5	0	0	2
co-0609-008	1	0	0	0	0	0.25	0	0	0	0	0.5	0	0	1.75
co-0805-001	0.5	0	0	0	0	0.25	0	0	0	0	0.5	0.5	0	1.75
co-0805-002	0.5	0	0	0	0.25	0	0	0	0	0	0.5	0.5	0	1.75
co-0805-003	0.5	0	0	0	0.25	0	0	0	0	0	0.5	0.5	0	1.75



Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
co-0807-002	0.5	0	0	0	0	0.25	0	0	0	0	0.5	0.5	0	1.75
co-0807-004	0.5	0	0	0	0	0.25	0	0	0	0	0.5	0.5	0	1.75
co-0807-005	0.5	0	0	0	0	0	0.25	0	0	0	0.5	0.5	0	1.75
co-0807-007	0.5	0	0	0	0	0	0.25	0	0	0	0.5	0.5	0	1.75
ok-0423-006	1	0	0	0	0	0.25	0	0	0	0	0	0.5	0	1.75
ok-0928-003	0.5	0	0	0	0	0.25	0	0	0	0	0	1	0	1.75
wa-0720-004	0.5	0	0	0	0	0.25	0	0	0	0	0.5	0.5	0	1.75
co-0609-004	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5
co-0609-010	0.5	0.5	0	0	0	0	0	0	0	0	0.5	0	0	1.5
co-0813-002	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5
co-0824-003	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5
ok-0224-002	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5
ok-0422-001	1.5	0	0	0	0	0	0	0	0	0	0	0	0	1.5
ok-0424-010	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5
ok-0608-003	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5

Site Number	ok-0608-005	sr-0305-004	co-0609-002	co-0819-001	ok-0609-013	ok-0721-004	co-0824-001
Channel Stability	0.5	1	0.5	0.5	0.5	0.5	0
Local NPSP	0	0	0	0	0	0	0
Channel Alteration	0	0	0	0	0	0	0.5
Right Buffer	0	0	0	0	0	0	0
Left Buffer	0	0	0	0	0	0	0
Right Floodplain Access	0	0	0	0	0	0	0
Left Floodplain Access	0	0	0	0	0	0	0
Shoring Structures	0	0	0	0	0	0	0
Water Odors	0	0	0	0	0	0	0
Pipe Discharge	0	0	0	0	0	0	0
Bank Erosion	0	0.5	0.5	0.5	0.5	0	0
BEHI	1	0	0	0	0	0.5	0
Fish Passage Blocked	0	0	0	0	0	0	0
<b>Total Score</b>	<b>1.5</b>	<b>1.5</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0.5</b>

Appendix B. Sediment Risk Index scores for unpaved road crossings in the Yellow River Basin, Alabama and Florida.

Crossing ID	ok-0429-r-014	wa-0707-r-002	wa-0707-r-005	co-1029-r-008	co-1029-r-010	ok-1005-r-001	wa-0617-r-004	wa-0625-r-002	wa-0706-r-003	cr-1103-r-002	ok-0429-r-010	ok-0429-r-012	wa-0716-r-009
Potential Erod Mean	5	5	5	5	3	3	5	3	5	3	5	5	5
Soil K Factor	5	5	5	5	3	3	5	3	5	3	5	5	5
Road Approach Material	3	1	3	3	3	3	3	3	3	3	3	3	3
Avg Approach Slope	3	1	1	3	1	1	1	1	1	1	3	1	1
US Channel Morph	1	1	1	1	1	3	1	1	1	1	1	1	1
DS Channel Morph	1	1	1	1	5	5	1	5	1	5	3	5	1
DS Bank Alteration	1	5	1	1	1	1	1	1	1	1	1	1	1
Upstream Skew Angle	1	1	1	1	1	1	1	3	3	3	3	5	5
Crossing fill condition	1	1	1	1	1	1	1	1	1	1	1	1	1
InletOutlet Condition	1	3	1	1	1	3	1	1	3	3	3	1	5
Upstream Rt Outlet	1	0	1	0	0	0	1	0	0	0	0	0	0
Upstream Lt Outlet	1	0	1	0	0	0	0	0	0	0	0	0	0
Upstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0
Upstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	0	0	1	0	0	0	1	0	0	0	0	0	0
Downstream Lt Outlet	0	0	1	0	0	0	0	0	0	0	0	0	0
Downstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Lt Ditch	0	0	0	0	0	0	0	0	1	0	0	0	0
Outlet Total	2	0	4	0	0	0	3	0	0	0	0	0	0
Outlet If Total	3	1	5	1	1	1	3	1	1	1	1	1	1
Ditches Total	0	0	0	0	0	0	0	0	1	0	0	0	0
Ditches If Total	1	1	1	1	1	1	1	1	3	1	1	1	1
<b>SRI Total</b>	<b>22</b>	<b>22</b>	<b>22</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>

Crossing ID	co-0731-r-008	co-0812-r-002	co-0820-r-003	ok-0429-r-009	ok-0512-r-004	wa-0625-r-006	wa-0706-r-001	wa-0714-r-004	co-0810-r-017	co-0812-r-009	co-0831-r-005	co-0901-r-012	co-1027-r-003	ok-0429-r-005
Potential Erod Mean	5	5	3	5	5	5	5	5	3	5	5	5	5	5
Road Approach Material	3	3	3	3	3	3	5	1	3	5	3	3	3	3
Avg Approach Slope	3	5	5	1	1	3	3	3	3	3	5	3	1	5
US Channel Morph	1	3	3	3	1	1	1	5	3	1	3	5	5	1
DS Channel Morph	5	1	5	1	3	1	1	1	1	1	1	1	3	1
DS Bank Alteration	1	1	1	3	1	3	1	1	1	1	1	1	1	1
Upstream Skew Angle	1	3	3	1	5	1	1	1	3	1	1	1	5	1
Crossing fill condition	1	1	1	1	1	1	3	1	1	1	1	1	1	1
InletOutlet Condition	3	3	1	5	3	1	1	1	3	3	3	3	3	1
Upstream Rt Outlet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upstream Lt Outlet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	1	0	0	0	1	1	0	0	0	0	0	0	0	1
Downstream Lt Outlet	0	0	0	0	1	1	0	0	1	0	1	0	0	0
Downstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Outlet Total	1	0	0	0	2	4	0	0	2	0	1	0	0	2
Outlet If Total	3	1	1	1	3	5	1	1	3	1	3	1	1	3
Ditches Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ditches If Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SRI Total	28	28	28	28	28	28	28	28	30	30	30	30	30	30

Crossing ID	ok-0429-r-008	ok-0429-r-016	ok-1005-r-004	wa-0706-r-002	wa-0707-r-006	wa-0707-r-007	co-0812-r-011	co-0820-r-002	co-0820-r-010	co-0831-r-001	co-0831-r-004	co-0831-r-013	co-1027-r-004	co-1102-r-002
Potential Erod Mean	5	5	5	5	5	5	5	5	5	5	5	3	5	5
Soil K Factor	5	5	5	5	5	5	5	5	5	5	5	3	5	5
Road Approach Material	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Avg Approach Slope	3	1	3	3	1	1	3	3	5	5	5	3	1	3
US Channel Morph	1	1	1	1	1	1	3	5	5	3	1	3	1	5
DS Channel Morph	1	5	1	5	1	3	3	1	1	1	1	5	5	1
DS Bank Alteration	1	1	1	1	1	3	3	1	1	1	1	1	1	1
Upstream Skew Angle	1	3	3	1	5	5	1	1	1	3	1	3	5	3
Crossing fill condition	5	1	3	1	1	1	1	1	1	1	1	1	3	1
InletOutlet Condition	3	5	3	3	3	1	3	3	3	3	3	3	3	3
Upstream Rt Outlet	1	0	1	0	0	0	1	0	0	0	1	0	0	0
Upstream Lt Outlet	1	0	1	1	0	0	1	0	0	0	1	0	0	0
Upstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	1	0	0	1	1	1	1	0	0	0	1	0	0	0
Downstream Lt Outlet	1	1	1	1	1	1	0	0	0	0	0	1	0	0
Downstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Outlet Total	4	1	3	3	2	2	3	0	0	0	3	1	0	0
Outlet If Total	5	3	3	3	3	3	3	1	1	1	3	3	1	1
Ditches Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ditches If Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>SRI Total</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>32</b>	<b>32</b>	<b>32</b>	<b>32</b>	<b>32</b>	<b>32</b>	<b>32</b>	<b>32</b>

Crossing ID	ok-0415-r-001	ok-0512-r-006	wa-0714-r-008	wa-0716-r-002	wa-0723-r-001	wa-0727-r-002	wa-0727-r-006	co-0731-r-004	co-0731-r-011	co-0810-r-015	co-0810-r-019	co-0811-r-004	co-0820-r-005	co-0901-r-014
Potential Erod Mean	3	5	5	3	3	5	5	5	5	5	3	5	3	5
Soil K Factor	3	5	5	3	3	5	5	5	5	5	3	5	3	5
Road Approach Material	3	3	3	3	3	3	3	3	3	5	3	3	3	3
Avg Approach Slope	1	5	5	3	5	3	1	3	3	1	3	1	5	3
US Channel Morph	5	3	3	1	5	1	3	3	3	5	5	3	3	5
DS Channel Morph	3	3	1	5	3	3	3	5	1	1	5	3	3	5
DS Bank Alteration	1	3	1	1	3	1	1	1	1	1	1	1	1	1
Upstream Skew Angle	5	3	3	3	1	5	5	3	3	1	3	3	1	1
Crossing fill condition	1	1	3	3	1	1	1	3	3	3	1	5	1	1
InletOutlet Condition	3	3	3	3	5	3	3	3	3	3	3	3	3	3
Upstream Rt Outlet	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Upstream Lt Outlet	1	0	0	0	0	0	0	1	0	0	0	0	1	0
Upstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Upstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Downstream Rt Outlet	0	0	1	0	1	0	0	0	1	0	1	0	0	0
Downstream Lt Outlet	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Downstream Rt Ditch	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Lt Ditch	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Outlet Total	1	0	2	0	2	0	0	2	3	1	2	0	2	0
Outlet If Total	3	1	3	1	3	1	1	3	3	3	3	1	3	1
Ditches Total	2	0	0	0	0	0	0	0	0	0	2	0	0	0
Ditches If Total	3	1	3	1	3	1	1	3	3	3	3	1	3	1
SRI Total	32	32	32	32	32	32	32	34	34	34	34	34	34	34

Crossing ID	co-0904-r-004	co-0904-r-005	co-0904-r-013	co-0904-r-014	co-1027-r-007	cr-1103-r-004	ok-0407-r-007	ok-0512-r-002	ok-0512-r-003	ok-0526-r-007	sr-0414-r-001	wa-0626-r-005	wa-0707-r-003	wa-0714-r-009
Potential Erod Mean	5	5	5	5	5	3	5	5	5	5	5	5	5	5
Soil K Factor	5	3	5	5	5	3	5	5	5	5	5	5	5	5
Road Approach Material	3	3	3	3	3	3	3	3	3	3	3	3	1	3
Avg Approach Slope	3	1	3	1	3	3	3	1	1	5	3	1	1	5
US Channel Morph	1	5	3	1	1	5	1	3	1	1	5	1	1	3
DS Channel Morph	5	5	5	3	5	5	5	3	1	3	3	5	3	5
DS Bank Alteration	1	1	1	1	1	1	1	1	1	1	3	1	5	1
Upstream Skew Angle	1	5	1	3	3	3	1	5	5	3	5	5	3	3
Crossing fill condition	3	1	1	3	1	1	5	1	5	1	1	1	1	1
InletOutlet Condition	3	3	1	5	5	3	5	5	5	3	1	5	5	3
Upstream Rt Outlet	1	0	1	1	0	0	0	1	0	1	0	0	1	0
Upstream Lt Outlet	1	0	1	0	0	0	0	0	0	1	0	0	1	0
Upstream Rt Ditch	0	0	1	0	0	0	0	0	0	0	0	0	1	0
Upstream Lt Ditch	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	0	0	0	0	1	0	1	1	1	1	0	0	1	0
Downstream Lt Outlet	0	0	1	1	0	0	1	1	1	1	0	0	1	0
Downstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Downstream Lt Ditch	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Outlet Total	2	0	3	2	1	0	2	3	4	4	0	0	4	1
Outlet If Total	3	1	3	3	3	1	3	3	5	5	1	1	5	3
Ditches Total	0	0	3	0	0	0	0	0	0	0	0	0	2	0
Ditches If Total	1	1	3	1	1	1	1	1	1	1	1	1	3	1
<b>SRI Total</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>

Crossing ID	Soil K Factor	Potential Erod Mean	Road Approach Material	Avg Approach Slope	US Channel Morph	DS Channel Morph	DS Bank Alteration	Upstream Skew Angle	Crossing fill condition	InletOutlet Condition	Upstream Rt Outlet	Upstream Lt Outlet	Upstream Rt Ditch	Upstream Lt Ditch	Downstream Rt Outlet	Downstream Lt Outlet	Downstream Rt Ditch	Downstream Lt Ditch	Outlet Total	Outlet If Total	Ditches Total	Ditches If Total	SRI Total	
wa-0716-r-003b	5	5	3	3	3	3	1	5	1	3	0	0	0	0	0	0	0	0	0	1	0	1	1	34
wa-0716-r-006	5	5	3	3	5	1	1	5	1	1	0	1	0	0	0	0	0	0	0	1	3	0	1	34
wa-0716-r-010	5	5	3	1	3	3	1	5	1	3	0	0	0	0	1	0	1	1	0	1	2	3	3	34
wa-0727-r-003	5	5	3	5	1	5	1	5	1	1	0	0	0	0	0	0	0	0	0	1	1	0	1	34
wa-0727-r-004a	5	5	3	3	3	5	1	1	1	5	0	0	0	0	0	0	0	0	0	1	1	0	1	34
wa-0727-r-004b	5	5	3	3	3	3	1	5	1	3	0	0	0	0	0	0	0	0	0	1	1	0	1	34
co-0729-r-001	5	1	3	3	3	5	3	3	1	5	0	0	0	0	1	0	0	0	1	3	0	1	1	36
co-0731-r-006	5	1	3	3	5	5	1	5	1	3	1	1	0	0	0	0	0	0	2	3	0	1	1	36
co-0810-r-005	5	5	3	5	3	3	3	1	1	1	1	1	1	0	0	0	0	0	2	3	1	3	1	36
co-0810-r-016	5	3	5	3	1	5	1	3	1	3	0	0	0	0	1	1	1	1	2	3	2	3	3	36
co-0831-r-003	5	5	3	5	3	3	3	3	1	3	0	0	0	0	0	0	0	0	0	1	0	1	1	36
co-0901-r-018	5	1	3	5	5	5	1	5	1	3	0	0	0	0	0	0	0	0	0	1	0	1	1	36
co-0904-r-015	3	5	3	3	1	5	1	1	3	3	1	1	1	1	1	1	0	0	4	5	2	3	5	36
Co-0907-r-001	5	1	3	3	3	3	1	5	5	3	0	1	0	0	1	0	0	0	2	3	0	1	1	36



Crossing ID	co-0907-r-002	co-1027-r-005	co-1102-r-014	co-1103-r-007	co-1104-r-003	cr-1102-r-011	cr-1103-r-005	ok-0318-r-001	ok-0429-r-002	ok-0528-r-002	ok-0528-r-008	wa-0617-r-005	wa-0625-r-003	wa-0716-r-004
Potential Erod Mean	5	5	5	3	3	5	5	5	3	5	5	5	5	5
Soil K Factor	5	5	5	3	3	5	5	5	3	5	5	5	5	5
Road Approach Material	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Avg Approach Slope	5	3	3	3	3	1	3	1	3	1	3	1	1	5
US Channel Morph	1	5	1	1	5	3	5	5	3	3	3	5	3	5
DS Channel Morph	5	1	5	1	5	5	5	3	3	3	3	3	3	3
DS Bank Alteration	1	1	1	3	3	5	1	3	1	1	3	3	3	1
Upstream Skew Angle	5	5	3	5	5	5	5	5	3	5	1	3	5	3
Crossing fill condition	1	3	5	3	1	1	1	5	3	5	3	1	1	1
InletOutlet Condition	3	3	3	5	1	5	1	3	3	3	5	5	5	3
Upstream Rt Outlet	0	1	0	1	0	0	0	0	1	0	1	1	1	0
Upstream Lt Outlet	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Upstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Upstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	0	1	0	0	0	0	0	0	1	1	1	1	0	0
Downstream Lt Outlet	0	1	0	1	0	0	0	0	1	0	0	0	0	0
Downstream Rt Ditch	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Lt Ditch	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Outlet Total	0	3	0	3	0	1	0	0	4	2	4	3	2	0
Outlet If Total	1	3	1	3	1	3	1	1	5	3	5	3	3	1
Ditches Total	0	2	0	0	0	0	0	0	0	0	0	1	0	0
Ditches If Total	1	3	1	3	1	3	1	1	5	3	5	3	3	1
SRI Total	36	36	36	36	36	36	36	36	36	36	36	36	36	36

Crossing ID	Soil K Factor	Potential Erod Mean	Road Approach Material	Avg Approach Slope	US Channel Morph	DS Channel Morph	DS Bank Alteration	Upstream Skew Angle	Crossing fill condition	InletOutlet Condition	Upstream Rt Outlet	Upstream Lt Outlet	Upstream Rt Ditch	Upstream Lt Ditch	Downstream Rt Outlet	Downstream Lt Outlet	Downstream Rt Ditch	Downstream Lt Ditch	Outlet Total	Outlet If Total	Ditches Total	Ditches If Total	SRI Total	
wa-0716-r-011	5	5	3	1	5	5	1	5	1	3	0	0	0	0	0	0	0	0	0	1	0	1	1	36
wa-1005-r-005	3	3	3	1	1	5	3	5	3	5	1	1	0	0	1	0	0	0	0	3	3	0	1	36
co-0729-r-005	5	3	3	3	5	3	3	3	5	1	1	1	0	0	0	0	0	0	2	3	0	1	38	
co-0810-r-001	5	1	1	5	5	5	1	3	3	3	1	1	0	0	1	1	0	0	4	5	0	1	38	
co-0810-r-006	5	5	3	3	3	5	1	3	1	5	0	0	0	0	0	0	1	0	0	1	1	3	38	
co-0810-r-014a	5	1	3	5	3	3	1	5	1	5	1	1	0	0	1	1	0	0	4	5	0	1	38	
co-0810-r-014b	5	1	3	5	5	5	1	1	1	5	1	1	0	0	1	1	0	0	4	5	0	1	38	
co-0812-r-013b	5	1	3	5	5	5	5	3	1	3	0	0	0	0	0	0	0	0	0	1	0	1	38	
co-0820-r-006	5	5	3	5	5	3	1	3	1	3	1	0	0	0	1	1	0	0	3	3	0	1	38	
co-0820-r-007	5	1	3	5	3	5	3	3	1	5	1	1	0	0	0	1	0	0	3	3	0	1	38	
co-0831-r-010	5	3	3	3	5	5	3	3	1	3	0	0	1	1	0	0	0	0	0	1	2	3	38	
co-0904-r-003	5	5	3	3	3	5	1	3	1	5	0	1	0	0	0	0	0	0	1	3	0	1	38	
co-0907-r-005	5	5	3	3	3	5	1	5	3	3	0	0	0	0	0	0	0	0	0	1	0	1	38	
co-1103-r-009	3	5	3	5	3	3	1	3	1	5	0	1	0	1	0	0	0	0	1	3	1	3	38	

Crossing ID	Soil K Factor	Potential Erod Mean	Road Approach Material	Avg Approach Slope	US Channel Morph	DS Channel Morph	DS Bank Alteration	Upstream Skew Angle	Crossing fill condition	InletOutlet Condition	Upstream Rt Outlet	Upstream Lt Outlet	Upstream Rt Ditch	Upstream Lt Ditch	Downstream Rt Outlet	Downstream Lt Outlet	Downstream Rt Ditch	Downstream Lt Ditch	Outlet Total	Outlet If Total	Ditches Total	Ditches If Total	SRI Total	
co-1104-r-004	5	5	3	5	3	3	3	5	3	1	0	0	0	0	0	0	0	0	0	1	0	1	1	38
cr-1103-r-003	3	5	3	3	3	5	3	3	1	3	0	1	1	0	0	1	0	1	2	3	2	3	3	38
ok-0429-r-001	5	5	3	5	1	5	1	3	1	5	0	1	0	0	0	0	0	0	1	3	0	1	3	38
ok-0526-r-005	5	3	3	5	3	5	1	1	1	5	1	1	0	0	1	0	1	0	3	3	1	3	3	38
ok-0528-r-006	5	5	3	3	3	5	3	5	1	3	0	0	0	0	0	0	0	0	0	1	0	1	1	38
ok-1005-r-002	5	1	3	3	1	5	1	5	5	5	0	0	0	0	1	1	0	0	2	3	0	1	3	38
wa-0617-r-003	5	5	5	3	1	1	1	3	3	5	0	1	0	0	1	0	1	0	2	3	1	3	3	38
wa-0714-r-007	5	1	3	5	5	5	1	5	1	3	1	1	0	0	0	0	0	0	2	3	0	1	3	38
wa-0716-r-001	5	5	5	1	3	5	1	3	1	3	0	1	1	0	1	0	0	0	2	3	1	3	3	38
wa-0716-r-003a	5	5	3	3	5	5	1	5	1	3	0	0	0	0	0	0	0	0	0	1	0	1	1	38
wa-0716-r-005	5	5	3	5	3	3	1	5	1	3	0	0	0	0	0	1	0	0	1	3	0	1	3	38
wa-0722-r-008	5	1	3	3	3	3	3	3	3	5	1	1	0	0	1	1	0	0	4	5	0	1	3	38
wa-0723-r-002	3	1	3	5	5	5	3	5	1	5	0	0	0	0	0	0	0	0	0	1	0	1	1	38
cf-1103-r-008	3	3	3	5	5	5	3	3	1	5	1	1	0	0	0	0	0	0	2	3	0	1	4	40

Crossing ID	co-0731-r-001	co-0810-r-002	co-0810-r-009	co-0810-r-011	co-0810-r-018	co-0810-r-021	co-0812-r-001	co-0812-r-013a	co-0820-r-004	co-0820-r-008	co-0831-r-008	co-0901-r-013	co-0904-r-010	co-0904-r-012
Potential Erod Mean	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Soil K Factor	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Road Approach Material	3	1	3	3	3	3	3	3	3	3	5	1	3	3
Avg Approach Slope	5	5	3	5	5	3	5	5	5	5	5	3	3	1
US Channel Morph	3	5	3	3	5	5	3	3	5	5	3	3	5	5
DS Channel Morph	3	5	3	3	3	5	5	3	5	3	5	5	5	5
DS Bank Alteration	3	1	1	1	1	1	1	5	1	1	1	5	1	1
Upstream Skew Angle	5	3	3	3	3	1	5	5	1	5	3	1	5	5
Crossing fill condition	5	1	3	1	1	1	5	1	1	1	1	3	3	3
InletOutlet Condition	3	3	5	3	3	3	5	5	3	3	3	3	3	3
Upstream Rt Outlet	0	1	1	1	0	0	1	1	1	0	0	1	0	1
Upstream Lt Outlet	1	0	1	1	1	1	0	0	1	1	0	1	0	0
Upstream Rt Ditch	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Upstream Lt Ditch	0	0	0	1	0	0	0	0	0	0	0	1	0	0
Downstream Rt Outlet	1	1	1	1	1	1	0	0	1	1	1	1	0	0
Downstream Lt Outlet	1	0	1	1	0	0	0	0	0	1	1	1	0	0
Downstream Rt Ditch	0	1	0	0	1	0	0	0	0	0	0	1	0	0
Downstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Outlet Total	3	2	4	4	2	2	2	1	3	2	2	3	0	2
Outlet If Total	3	3	5	5	3	3	3	3	3	3	3	3	1	3
Ditches Total	0	1	0	1	3	0	0	0	0	0	0	0	0	0
Ditches If Total	1	3	0	1	3	1	1	1	1	1	1	3	1	1
SRI Total	40	40	40	40	40	40	40	40	40	40	40	40	40	40

Crossing ID	co-0907-r-004	co-1027-r-006	co-1027-r-008	co-1029-r-006	co-1103-r-010	co-1103-r-011	ok-0407-r-006	ok-0407-r-008	ok-0429-r-003	ok-0429-r-004	ok-0429-r-007	ok-0429-r-015	ok-0512-r-005	ok-0526-r-002
Potential Erod Mean	5	5	5	5	5	3	5	5	5	5	5	5	5	5
Soil K Factor	5	5	5	5	5	3	5	5	5	5	5	5	5	5
Road Approach Material	3	3	3	3	3	3	3	3	3	3	3	3	3	5
Avg Approach Slope	1	1	1	3	3	1	1	1	5	5	5	1	1	1
US Channel Morph	5	5	3	3	3	5	5	5	5	5	5	5	5	1
DS Channel Morph	5	5	5	5	3	5	3	5	5	5	5	5	5	3
DS Bank Alteration	3	3	1	1	1	3	3	5	3	3	1	3	5	1
Upstream Skew Angle	5	5	5	5	5	5	3	5	3	1	3	5	5	3
Crossing fill condition	5	3	3	1	5	5	5	1	1	1	1	5	3	5
InletOutlet Condition	3	5	5	3	5	5	5	5	1	5	5	3	5	3
Upstream Rt Outlet	1	0	1	0	1	1	1	1	1	0	1	1	0	1
Upstream Lt Outlet	1	1	1	0	1	0	0	0	0	0	1	1	0	1
Upstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upstream Lt Ditch	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	0	0	1	0	0	1	0	0	1	0	1	1	0	1
Downstream Lt Outlet	0	1	1	1	0	0	1	0	1	0	1	0	0	1
Downstream Rt Ditch	0	0	1	1	0	0	0	0	0	0	0	0	0	1
Downstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Outlet Total	2	2	4	1	2	2	2	1	3	0	4	3	0	4
Outlet If Total	3	3	5	3	3	3	3	3	3	1	5	3	1	5
Ditches Total	0	0	2	1	0	0	0	0	0	0	0	0	0	1
Ditches If Total	1	1	3	3	1	1	1	1	1	1	1	1	1	3
SRI Total	40	40	40	40	40	40	40	40	40	40	40	40	40	40

Crossing ID	ok-0526-r-006	ok-0526-r-011	ok-0617-r-007	sr-0401-r-001	sr-0414-r-005	wa-0626-r-004	wa-0707-r-004	wa-0714-r-002	wa-0714-r-006	wa-0714-r-010	wa-0716-r-007	wa-0716-r-008	wa-0722-r-003	wa-0727-r-001
Potential Erod Mean	5	3	1	5	1	3	5	1	3	1	3	5	3	5
Soil K Factor	5	5	5	5	5	3	5	3	5	5	5	5	3	5
Road Approach Material	3	3	3	3	3	3	1	3	3	3	3	3	5	3
Avg Approach Slope	5	3	5	5	5	3	1	1	3	1	5	3	3	5
US Channel Morph	3	5	3	1	1	3	5	5	5	3	5	5	1	5
DS Channel Morph	5	5	3	5	5	3	3	5	3	5	3	5	3	5
DS Bank Alteration	3	5	1	1	3	5	3	5	1	5	1	1	1	1
Upstream Skew Angle	1	3	3	5	5	5	5	5	3	5	5	3	5	5
Crossing fill condition	1	1	5	5	5	3	5	3	5	3	5	5	5	1
InletOutlet Condition	5	5	5	5	5	5	3	5	3	5	5	3	5	3
Upstream Rt Outlet	1	0	1	1	0	1	0	1	1	1	0	0	1	0
Upstream Lt Outlet	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Upstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	1	0	1	0	0	0	0	0	1	1	0	0	1	0
Downstream Lt Outlet	0	0	1	0	0	0	0	1	1	0	0	0	0	0
Downstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Outlet Total	2	0	4	2	0	2	0	3	4	4	0	0	4	0
Outlet If Total	3	1	5	3	1	3	1	3	5	5	1	1	5	1
Ditches Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ditches If Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SRI Total	40	40	40	40	40	40	40	40	40	40	40	40	40	40

Crossing ID	wa-0727-r-005	co-0729-r-004	co-0729-r-006	co-0729-r-007	co-0731-r-005	co-0731-r-010	co-0810-r-003	co-0810-r-008	co-0810-r-012	co-0811-r-005	co-0812-r-005	co-0812-r-012	co-0820-r-001	co-0831-r-007
Potential Erod Mean	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Soil K Factor	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Road Approach Material	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Avg Approach Slope	3	5	1	3	3	3	5	3	3	5	5	3	5	5
US Channel Morph	5	5	5	3	5	3	5	3	3	5	5	5	3	1
DS Channel Morph	5	5	5	5	5	5	5	3	3	1	5	3	3	5
DS Bank Alteration	5	1	3	1	1	3	1	3	3	1	1	5	3	1
Upstream Skew Angle	5	5	1	5	5	3	1	1	3	3	3	3	5	1
Crossing fill condition	1	1	1	5	5	5	5	5	3	5	5	5	5	5
InletOutlet Condition	5	3	5	5	3	3	5	5	5	5	5	5	5	5
Upstream Rt Outlet	0	1	1	1	1	1	1	1	1	1	1	1	0	1
Upstream Lt Outlet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upstream Rt Ditch	0	0	1	1	0	0	1	0	0	0	0	0	0	0
Upstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	0	0	1	1	1	1	1	1	1	1	1	1	0	1
Downstream Lt Outlet	0	0	0	1	1	1	0	0	0	0	0	0	0	0
Downstream Rt Ditch	0	0	1	1	0	0	0	0	0	0	0	0	1	0
Downstream Lt Ditch	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Outlet Total	0	1	2	3	4	4	4	4	4	3	4	3	0	4
Outlet If Total	1	3	3	3	5	5	5	5	5	3	5	3	1	5
Ditches Total	0	0	2	3	0	2	0	0	0	0	0	0	1	0
Ditches If Total	1	1	3	3	0	3	0	0	0	1	1	1	3	1
SRI Total	40	42	42	42	42	42	42	42	42	42	42	42	42	42

Crossing ID	co-0831-r-011	co-0831-r-015	CO-0901-R-001	co-0901-r-002	co-0901-r-004	co-0901-r-010	co-0904-r-007	co-0904-r-008	co-0904-r-018	co-0907-r-003	co-1027-r-001	co-1027-r-002	co-1029-r-003	co-1029-r-009
Potential Erod Mean	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Soil K Factor	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Road Approach Material	3	3	1	3	5	5	3	3	3	3	5	3	5	3
Avg Approach Slope	1	3	5	5	3	1	3	3	1	3	1	1	3	3
US Channel Morph	5	3	5	5	5	5	3	1	5	5	3	5	1	5
DS Channel Morph	5	5	5	5	5	3	5	5	5	5	1	5	1	5
DS Bank Alteration	3	3	3	1	1	3	3	5	3	3	3	3	3	3
Upstream Skew Angle	5	5	3	3	3	3	3	5	3	5	5	5	5	5
Crossing fill condition	5	3	5	5	1	3	5	5	5	1	5	5	5	1
InletOutlet Condition	3	1	5	3	3	3	3	5	5	3	5	5	3	3
Upstream Rt Outlet	1	1	1	0	0	1	0	0	0	0	0	0	1	0
Upstream Lt Outlet	0	1	1	0	1	1	0	0	0	0	0	1	0	0
Upstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upstream Lt Ditch	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	1	1	0	0	1	1	1	1	0	1	1	0	1	0
Downstream Lt Outlet	0	1	0	0	1	1	0	0	0	0	0	0	0	0
Downstream Rt Ditch	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Downstream Lt Ditch	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Outlet Total	2	4	2	0	3	4	2	2	0	2	2	2	4	0
Outlet If Total	3	5	3	1	3	5	3	3	1	3	3	3	5	1
Ditches Total	0	0	0	0	3	0	0	0	0	0	0	0	0	1
Ditches If Total	1	1	1	1	3	1	1	1	1	1	1	1	1	3
<b>SRI Total</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>



Crossing ID	co-1102-r-006	cr-1102-r-012	ok-0318-r-002	ok-0318-r-003	ok-0409-r-001	ok-0429-r-006	ok-0526-r-008	ok-0617-r-002	ok-0617-r-006	wa-0626-r-001	wa-0626-r-003	wa-0706-r-004	wa-0707-r-001	wa-0710-r-005
Potential Erod Mean	5	5	5	5	5	5	5	5	5	5	3	5	5	5
Soil K Factor	5	5	5	5	5	5	5	5	5	5	3	5	5	5
Road Approach Material	3	3	3	3	5	3	1	3	3	3	3	3	1	5
Avg Approach Slope	3	1	5	3	1	5	5	3	5	5	3	3	1	1
US Channel Morph	5	3	1	5	5	1	1	3	3	1	5	1	3	3
DS Channel Morph	5	5	5	5	5	5	5	5	3	1	5	3	5	3
DS Bank Alteration	3	3	3	3	5	1	3	3	3	1	1	1	5	3
Upstream Skew Angle	5	5	3	3	5	5	5	3	1	5	5	5	3	5
Crossing fill condition	1	3	5	3	1	5	5	3	5	3	5	5	5	1
InletOutlet Condition	5	5	5	5	5	3	3	5	5	5	3	5	3	5
Upstream Rt Outlet	0	0	1	1	0	1	1	1	1	0	1	1	1	0
Upstream Lt Outlet	1	1	1	1	0	1	1	1	1	0	1	1	1	0
Upstream Rt Ditch	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Upstream Lt Ditch	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	0	1	1	0	0	1	0	1	1	0	1	1	1	0
Downstream Lt Outlet	1	1	1	1	0	1	0	1	1	0	1	1	1	1
Downstream Rt Ditch	0	0	0	1	0	0	0	0	0	0	0	0	1	0
Downstream Lt Ditch	1	1	0	1	0	0	0	0	1	0	0	0	0	0
Outlet Total	2	3	4	2	0	4	2	4	4	4	4	4	4	1
Outlet If Total	3	3	5	3	1	5	3	5	5	5	3	5	5	3
Ditches Total	1	3	0	2	0	0	1	1	1	0	0	0	0	1
Ditches If Total	3	3	0	3	1	0	3	3	3	1	1	1	3	3
SRI Total	42	42	42	42	42	42	42	42	42	42	42	42	42	42

Crossing ID	wa-0714-r-001	wa-0722-r-004	wa-0722-r-006	co-0729-r-003	co-0731-r-002	co-0731-r-003	co-0731-r-007	co-0810-r-013	co-0810-r-020	co-0811-r-003	co-0831-r-002	co-0901-r-008	co-0901-r-009	co-0901-r-011
Soil K Factor	3	5	5	5	5	5	5	5	5	5	5	5	3	5
Potential Erod Mean	5	5	5	5	1	1	1	3	5	1	5	5	5	5
Road Approach Material	3	1	3	3	5	5	3	3	3	3	3	1	5	5
Avg Approach Slope	3	5	5	5	1	1	3	3	5	1	5	3	5	1
US Channel Morph	5	3	5	3	5	5	5	5	3	5	5	1	1	5
DS Channel Morph	5	5	5	5	5	5	5	5	5	5	5	5	5	5
DS Bank Alteration	3	3	3	3	3	3	1	3	5	3	3	3	3	3
Upstream Skew Angle	5	5	5	3	5	5	5	5	3	5	3	5	5	5
Crossing fill condition	1	1	1	5	5	5	5	5	1	5	5	3	3	3
InletOutlet Condition	5	5	3	3	3	5	5	3	5	5	3	5	3	3
Upstream Rt Outlet	1	0	0	1	0	0	1	0	0	0	1	1	1	0
Upstream Lt Outlet	1	0	0	1	1	0	1	1	1	0	1	1	1	0
Upstream Rt Ditch	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Upstream Lt Ditch	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Downstream Rt Outlet	1	1	0	0	1	0	1	1	1	1	1	1	1	0
Downstream Lt Outlet	0	1	0	0	1	0	1	1	0	0	0	1	0	0
Downstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Downstream Lt Ditch	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Outlet Total	3	2	0	2	3	3	4	3	2	1	4	4	4	0
Outlet If Total	3	3	1	3	3	3	5	3	3	3	5	5	5	1
Ditches Total	0	0	0	0	0	0	0	0	0	3	0	1	0	3
Ditches If Total	1	1	0	1	1	1	1	1	1	3	3	3	1	3
<b>SRI Total</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>44</b>

Crossing ID	co-0901-r-015	co-0904-r-001	co-0904-r-002	co-0904-r-016	co-0904-r-017	co-1027-r-009	co-1027-r-010	co-1029-r-002	co-1029-r-007	co-1102-r-005	co-1102-r-009	co-1103-r-017	co-1103-r-018	cr-1103-r-006
Potential Erod Mean	5	5	5	5	5	5	5	5	5	3	5	5	3	3
Road Approach Material	3	3	3	3	3	5	3	5	3	3	3	3	5	3
Avg Approach Slope	3	1	5	1	1	3	1	1	3	3	3	1	1	3
US Channel Morph	5	3	5	5	5	5	5	5	5	5	5	3	5	3
DS Channel Morph	5	3	5	5	5	5	5	5	5	5	5	5	5	5
DS Bank Alteration	3	5	1	3	1	3	3	1	3	3	3	5	5	3
Upstream Skew Angle	5	3	1	5	1	5	5	5	5	5	5	5	5	5
Crossing fill condition	5	5	3	3	5	1	5	5	1	5	5	5	5	5
InletOutlet Condition	3	5	3	3	5	3	5	5	5	5	5	5	5	5
Upstream Rt Outlet	1	0	1	1	1	0	1	0	0	1	1	1	1	1
Upstream Lt Outlet	1	0	1	1	1	1	1	0	1	1	1	1	1	1
Upstream Rt Ditch	0	0	0	1	1	0	0	0	0	0	0	1	0	0
Upstream Lt Ditch	0	1	1	1	1	1	0	0	0	0	0	1	0	0
Downstream Rt Outlet	1	1	1	0	1	0	1	1	0	1	0	0	1	1
Downstream Lt Outlet	1	1	1	0	1	0	1	1	0	1	0	0	0	0
Downstream Rt Ditch	0	1	1	0	1	1	1	0	0	0	0	0	0	0
Downstream Lt Ditch	0	1	1	0	1	1	1	0	0	0	0	0	0	0
Outlet Total	4	2	4	2	3	1	4	3	1	4	2	2	3	4
Outlet If Total	5	3	5	3	3	3	5	3	3	5	3	3	3	5
Ditches Total	0	3	1	2	4	2	0	0	0	0	0	2	0	0
Ditches If Total	1	3	3	3	5	3	1	1	1	1	1	3	1	1
SRI Total	44	44	44	44	44	44	44	44	44	44	44	44	44	44



Crossing ID	sr-0414-r-004	wa-0625-r-005a	wa-0626-r-002	wa-0626-r-007	wa-0714-r-005	wa-0722-r-009	wa-0723-r-003	co-0731-r-009	co-0731-r-012	co-0810-r-004	co-0812-r-004	co-0812-r-010	co-0820-r-009	co-0831-r-006
Potential Erod Mean	5	5	3	3	5	5	3	5	5	5	5	5	5	5
Soil K Factor	5	5	3	3	5	5	3	5	5	5	5	5	5	5
Road Approach Material	3	5	3	5	5	5	5	1	3	3	3	5	3	3
Avg Approach Slope	5	1	5	3	3	5	5	3	1	5	5	3	5	3
US Channel Morph	5	3	5	1	3	3	3	5	3	5	5	5	5	5
DS Channel Morph	5	3	5	5	3	3	3	5	5	3	5	5	5	5
DS Bank Alteration	5	5	3	1	3	1	3	3	3	3	5	3	1	3
Upstream Skew Angle	5	5	5	3	5	5	5	5	5	5	5	3	5	5
Crossing fill condition	1	1	1	5	5	5	5	1	3	5	1	3	1	5
InletOutlet Condition	5	5	5	5	3	5	1	5	5	1	5	5	3	5
Upstream Rt Outlet	0	1	1	1	1	1	1	1	1	0	0	1	1	1
Upstream Lt Outlet	0	1	1	1	1	1	1	1	1	0	0	1	1	1
Upstream Rt Ditch	0	1	0	1	0	0	0	1	1	0	0	0	1	0
Upstream Lt Ditch	0	0	0	1	0	0	0	1	0	0	0	0	0	0
Downstream Rt Outlet	0	0	1	1	0	1	1	1	1	1	0	0	0	1
Downstream Lt Outlet	1	1	1	1	1	1	1	1	1	0	0	1	0	0
Downstream Rt Ditch	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Downstream Lt Ditch	0	1	1	0	0	0	0	0	0	0	0	0	1	0
Outlet Total	1	3	4	4	3	4	4	4	4	3	1	3	2	4
Outlet If Total	3	3	5	5	3	5	5	5	5	3	3	3	3	5
Ditches Total	0	3	0	2	0	0	0	2	1	0	0	0	4	0
Ditches If Total	1	3	3	3	1	1	1	3	3	1	1	1	5	1
SRI Total	44	44	44	44	44	44	44	46	46	46	46	46	46	46

Crossing ID	co-0831-r-009	co-0901-r-003	co-0901-r-006	co-0901-r-016	co-0904-r-006	co-0904-r-011	co-1102-r-003	co-1102-r-004	co-1102-r-015	co-1103-r-013	co-1103-r-014	co-1104-r-002	ok-0223-r-005	ok-0318-r-004
Potential Erod Mean	5	3	5	5	5	5	5	5	5	3	3	5	5	5
Soil K Factor	5	3	5	5	5	5	5	5	5	3	3	5	5	5
Road Approach Material	5	5	3	3	3	3	3	3	3	3	3	3	1	3
Avg Approach Slope	5	3	5	5	3	3	3	3	3	1	3	3	5	5
US Channel Morph	5	5	5	5	5	5	5	5	5	5	3	5	5	5
DS Channel Morph	5	5	5	5	5	5	5	5	5	5	5	3	5	5
DS Bank Alteration	3	5	3	3	3	5	3	3	3	5	5	3	3	5
Upstream Skew Angle	5	3	5	1	5	3	5	5	5	5	5	3	1	5
Crossing fill condition	1	1	3	5	3	1	5	3	5	5	5	3	1	5
InletOutlet Condition	3	3	3	5	5	5	5	5	3	5	5	5	1	5
Upstream Rt Outlet	1	1	0	1	0	1	0	0	0	1	1	1	1	0
Upstream Lt Outlet	1	1	0	1	0	1	1	0	0	1	1	1	1	0
Upstream Rt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upstream Lt Ditch	0	1	0	0	0	0	1	0	0	0	0	0	0	0
Downstream Rt Outlet	1	1	1	1	1	0	1	1	0	1	1	0	1	0
Downstream Lt Outlet	1	1	1	1	0	0	0	0	0	1	1	0	1	0
Downstream Rt Ditch	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Downstream Lt Ditch	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Outlet Total	4	4	2	4	1	2	2	3	1	4	4	2	4	0
Outlet If Total	5	5	3	5	3	3	3	3	3	5	5	3	5	1
Ditches Total	0	1	0	2	0	1	0	2	0	0	0	0	4	0
Ditches If Total	1	3	1	3	1	3	1	3	1	1	1	1	5	1
SRI Total	46	46	46	46	46	46	46	46	46	46	46	46	46	46

Crossing ID	ok-0409-r-002	ok-0617-r-001	sr-0407-r-010	sr-0414-r-002	wa-0625-r-004	wa-0626-r-006	wa-0714-r-011	wa-0722-r-001	wa-1005-r-006	co-0810-r-007	co-0810-r-010	co-0811-r-002	co-0812-r-007	co-0812-r-008
Potential Erod Mean	5	5	5	5	5	5	3	5	5	5	5	5	5	5
Soil K Factor	5	5	5	5	5	5	3	5	5	5	5	5	5	5
Road Approach Material	3	5	3	3	3	3	3	3	3	3	3	3	3	3
Avg Approach Slope	5	1	5	3	5	5	3	1	1	5	5	5	5	5
US Channel Morph	5	5	5	5	5	5	5	3	5	5	5	5	3	3
DS Channel Morph	5	3	3	5	3	1	3	5	3	3	3	3	1	3
DS Bank Alteration	5	5	5	3	5	5	5	5	3	5	5	5	5	5
Upstream Skew Angle	5	5	3	3	5	1	5	3	5	5	5	1	5	5
Crossing fill condition	3	3	3	5	3	5	5	5	3	5	5	5	5	5
InletOutlet Condition	5	5	5	5	3	5	5	5	3	5	5	5	5	5
Upstream Rt Outlet	1	0	1	1	1	1	1	1	1	0	1	1	1	1
Upstream Lt Outlet	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Upstream Rt Ditch	0	0	0	0	0	1	0	0	0	0	0	0	1	0
Upstream Lt Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downstream Rt Outlet	1	1	1	1	1	1	1	1	1	0	1	1	1	1
Downstream Lt Outlet	0	1	1	1	1	1	1	1	1	0	1	1	1	1
Downstream Rt Ditch	0	0	0	0	0	1	0	0	0	0	0	0	1	0
Downstream Lt Ditch	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Outlet Total	3	3	4	4	4	4	4	4	4	1	4	4	4	4
Outlet If Total	3	3	5	5	5	5	5	5	5	3	5	5	5	5
Ditches Total	0	1	0	0	0	0	0	0	0	0	0	0	3	2
Ditches If Total	1	3	0	0	0	0	0	0	0	1	1	1	3	3
SRI Total	46	46	46	46	46	46	46	46	46	48	48	48	48	48

Crossing ID	co-0901-r-005	co-0904-r-009	co-1102-r-001	co-1102-r-008	co-1102-r-010	co-1103-r-015	co-1104-r-001	ok-0223-r-003	ok-0318-r-005	ok-0407-r-001	ok-0526-r-001	ok-0526-r-010	ok-0528-r-003	sr-0223-r-001
Potential Erod Mean	5	5	3	3	3	5	3	5	3	5	5	3	5	5
Soil K Factor	5	5	5	5	5	5	5	5	5	5	5	3	5	5
Road Approach Material	3	3	3	3	3	3	3	3	3	5	3	1	3	3
Avg Approach Slope	3	3	5	3	5	3	3	5	3	1	1	5	3	3
US Channel Morph	5	5	3	5	5	5	3	5	5	5	5	3	3	5
DS Channel Morph	3	5	5	5	5	5	5	5	5	5	5	5	3	5
DS Bank Alteration	3	1	3	3	3	3	3	3	5	3	3	5	3	5
Upstream Skew Angle	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Crossing fill condition	3	5	3	3	5	5	5	1	3	5	5	5	5	5
InletOutlet Condition	5	5	5	5	5	3	5	5	5	5	5	5	5	5
Upstream Rt Outlet	1	1	1	1	1	1	1	0	1	0	1	1	1	0
Upstream Lt Outlet	1	1	1	1	1	1	1	0	1	0	0	0	1	1
Upstream Rt Ditch	0	0	0	0	0	0	0	1	0	0	1	1	1	0
Upstream Lt Ditch	1	0	1	1	1	0	1	0	0	0	0	0	1	1
Downstream Rt Outlet	1	1	1	1	0	0	1	0	1	0	1	0	1	0
Downstream Lt Outlet	1	1	1	1	0	0	1	0	1	0	0	1	1	0
Downstream Rt Ditch	1	0	0	0	0	0	1	0	0	0	1	1	1	0
Downstream Lt Ditch	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Outlet Total	4	4	4	4	2	3	4	0	4	1	4	2	4	1
Outlet If Total	5	5	5	5	3	3	5	1	5	3	5	3	5	3
Ditches Total	2	0	1	2	0	1	2	4	0	0	4	2	4	1
Ditches If Total	3	1	3	3	1	3	3	5	1	1	5	3	5	3
SRI Total	48	48	48	48	48	48	48	48	48	48	48	48	48	48

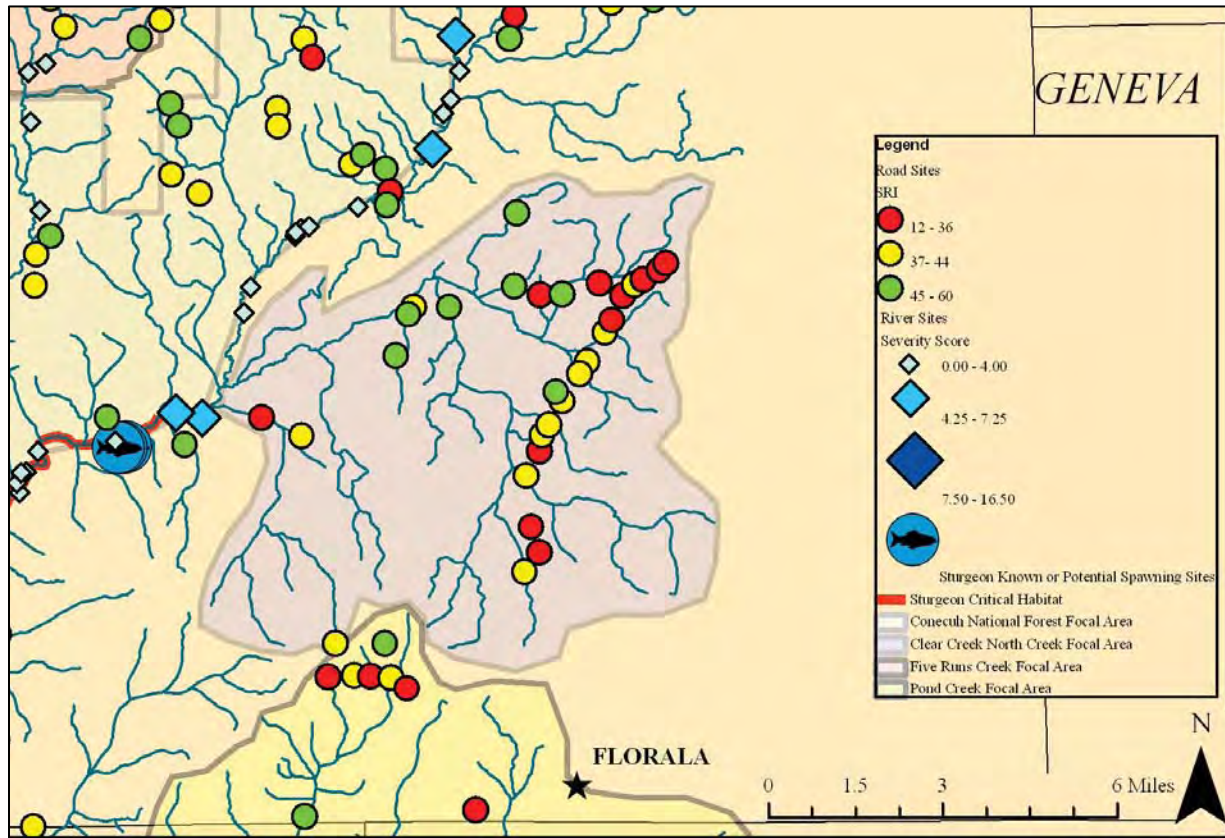


Crossing ID	wa-0625-r-001	wa-0625-r-005b	wa-0626-r-008	wa-0714-r-003	wa-0722-r-005	co-0812-r-006	co-0831-r-014	co-0901-r-007	co-0901-r-017	co-1029-r-001	co-1029-r-005	co-1102-r-007	co-1102-r-013	co-1103-r-001
Potential Erod Mean	3	5	3	5	5	5	5	5	5	5	5	5	5	5
Soil K Factor	3	5	3	5	5	5	5	5	5	5	5	5	5	5
Road Approach Material	3	5	5	5	1	3	5	3	3	5	5	3	5	3
Avg Approach Slope	3	1	3	3	5	5	5	5	5	3	1	5	3	5
US Channel Morph	5	3	5	5	3	5	5	5	3	5	5	5	5	5
DS Channel Morph	5	3	5	5	3	5	5	5	5	5	5	5	5	5
DS Bank Alteration	3	5	3	3	5	3	3	3	3	3	3	3	3	3
Upstream Skew Angle	5	5	3	5	5	3	5	3	5	3	5	3	3	3
Crossing fill condition	5	5	3	1	5	5	3	3	5	3	5	3	5	3
InletOutlet Condition	5	5	3	5	5	3	3	5	5	5	5	5	5	5
Upstream Rt Outlet	1	1	1	0	1	1	0	1	1	1	1	1	1	1
Upstream Lt Outlet	1	1	1	1	1	1	0	1	1	1	1	1	1	1
Upstream Rt Ditch	0	1	1	0	0	0	0	1	0	1	0	1	1	1
Upstream Lt Ditch	0	0	1	1	1	1	1	0	0	1	1	1	1	1
Downstream Rt Outlet	1	0	1	0	1	1	1	1	1	1	1	1	1	0
Downstream Lt Outlet	1	1	1	0	1	1	1	1	1	0	1	1	1	0
Downstream Rt Ditch	0	1	1	1	0	0	1	0	0	1	0	1	1	0
Downstream Lt Ditch	0	1	1	1	0	1	0	0	0	1	0	1	1	0
Outlet Total	4	3	4	1	4	4	3	4	4	3	4	4	4	2
Outlet If Total	5	3	5	3	5	5	3	5	5	3	5	5	5	3
Ditches Total	0	3	4	3	0	2	2	1	0	4	0	4	4	1
Ditches If Total	1	3	5	3	0	3	3	3	1	5	1	5	5	3
<b>SRI Total</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>

Crossing ID	ok-0407-r-005	ok-0710-r-002	sr-0223-r-002	wa-0722-r-002	wa-0722-r-007	co-0729-r-002	co-0831-r-012	co-1029-r-004	co-1103-r-016	ok-0223-r-004	ok-0223-r-006	sr-0414-r-006	co-0811-r-001	co-0812-r-003
Potential Erod Mean	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Soil K Factor	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Road Approach Material	3	3	3	3	3	3	3	3	5	3	3	3	3	3
Avg Approach Slope	5	3	3	5	5	5	3	5	3	5	5	5	5	5
US Channel Morph	5	5	3	3	5	5	5	5	5	5	5	5	5	5
DS Channel Morph	5	5	5	3	5	5	3	3	5	3	5	3	3	3
DS Bank Alteration	5	5	3	5	1	5	3	3	5	3	5	3	3	3
Upstream Skew Angle	5	5	5	5	5	5	5	5	5	1	5	5	5	5
Crossing fill condition	5	5	5	5	5	5	5	5	5	5	5	5	5	5
InletOutlet Condition	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Upstream Rt Outlet	1	0	1	1	1	1	1	1	0	1	1	1	1	1
Upstream Lt Outlet	1	1	1	1	1	1	1	1	0	1	1	1	1	1
Upstream Rt Ditch	0	0	0	0	0	1	0	0	0	1	0	0	1	1
Upstream Lt Ditch	0	0	1	0	0	1	0	0	0	1	0	0	1	0
Downstream Rt Outlet	1	1	1	1	1	1	1	1	1	0	0	1	1	1
Downstream Lt Outlet	1	1	1	1	1	1	1	1	1	0	0	1	1	1
Downstream Rt Ditch	0	0	1	0	0	1	0	0	0	1	0	0	0	0
Downstream Lt Ditch	0	0	0	0	0	1	1	0	0	1	0	0	1	0
Outlet Total	4	3	4	4	4	4	4	4	3	4	2	4	4	4
Outlet If Total	5	3	5	5	5	5	5	5	3	5	3	5	5	5
Ditches Total	0	0	2	0	0	4	1	0	0	4	0	0	3	1
Ditches If Total	1	1	3	1	1	5	3	1	1	5	1	1	3	3
<b>SRI Total</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>52</b>	<b>52</b>	<b>52</b>	<b>52</b>	<b>52</b>	<b>52</b>	<b>52</b>	<b>54</b>	<b>54</b>

<b>SRI Total</b>				<b>54</b>	<b>54</b>	<b>56</b>	<b>56</b>
Ditches If Total			3	3	5	5	5
Ditches Total			1	1	4	4	4
Outlet If Total			3	3	5	5	5
Outlet Total			3	3	4	4	4
Downstream Lt Ditch			1	1	1	1	1
Downstream Rt Ditch			0	1	1	1	1
Downstream Lt Outlet			1	1	1	1	1
Downstream Rt Outlet			1	1	1	1	1
Upstream Lt Ditch			0	1	1	1	1
Upstream Rt Ditch			0	1	1	1	1
Upstream Lt Outlet			1	1	1	1	1
Upstream Rt Outlet			0	1	1	1	1
InletOutlet Condition			5	5	5	5	5
Crossing fill condition			5	3	5	3	5
Upstream Skew Angle			5	5	5	5	3
DS Bank Alteration			5	5	5	5	3
DS Channel Morph			5	5	5	5	5
US Channel Morph			5	5	5	5	5
Avg Approach Slope			5	5	5	5	5
Road Approach Material			5	3	3	5	5
Potential Erod Mean			5	5	5	5	5
Soil K Factor			3	3	5	5	5
Crossing ID	co-1103-r-012	ok-0526-r-004	co-0901-r-019	wa-0710-r-001			

Appendix C. Clear Creek Watershed Focal Area. Sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the Sediment Risk Index (SRI) are detailed in Witmer (2009).



Unnamed tributary	co-0812-r-002	Sedimentation Risk Index <b>28</b>
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<u>Common:</u> 8.3mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> North Creek <u>GPS:</u> 31.095561, -86.418078	<u>PLSS (T-R-S):</u> 2N-16E-35	
<u>Land owner:</u> Walter & Martha Spears	<u>Parcel No.:</u> 6	
	<u>Road Name:</u> Laird Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>28</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: PVC  
Soil Types: BoB,BoC,CdC,DmB,FoA,FuB,GrA,IbA,MBA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 3.0in

Notes: Rock DS holding back the water flow.

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Unnamed tributary	co-0820-r-003	Sedimentation Risk Index <b>28</b>
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<u>Common:</u> 4.4mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Dry Creek <u>GPS:</u> 31.067773851, -86.339962557	<u>PLSS (T-R-S):</u> 1N-17E-10	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>28</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoB,BoC,CdC,DmB,EsC,FoA
<u>Rt Approach Prism Fill:</u>	1.5in
<u>Lt Approach Prism Fill:</u>	2.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US channelized

Unnamed tributary	co-0812-r-009	Sedimentation Risk Index <b>30</b>
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<u>Common:</u> 8.3mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.125967, -86.336861	<u>PLSS (T-R-S):</u> 2N-17E-22	
<u>Land owner:</u> Rodney Helms US, Donald & Elizabeth Stullken -DS	<u>Parcel No.:</u> 3; 3.03	
	<u>Road Name:</u> Booker Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoB,BoC,DmB,EsC,GrA,MBA,OrA,OrB
<u>Rt Approach Prism Fill:</u>	0.15in
<u>Lt Approach Prism Fill:</u>	0.1in

Notes: Man-made pond US- awkward drainage at a high angle

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Unnamed tributary	co-0831-r-005	Sedimentation Risk Index <b>30</b>
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<u>Common:</u> 9.0mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Beaver Creek <u>GPS:</u> 31.133631, -86.300342	<u>PLSS (T-R-S):</u> 2N-17E-13	
<u>Land owner:</u> Rayonier Forest Resources	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Johnson's Quarters	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: PVC  
Soil Types: BoB, FoA, FuB, MBA  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 1.0in

Notes: None



<h1>Clear Creek</h1>	<h2>co-0812-r-011</h2>	<i>Sedimentation Risk Index</i> <b>32</b>
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<u>Common:</u> 8.6mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <span style="float:right"><u>GPS:</u> 31.128814, -86.319747</span>	<u>PLSS (T-R-S):</u> 2N-17E-23	
<u>Land owner:</u> Avis McGouirk	<u>Parcel No.:</u> 4	
	<u>Road Name:</u> Buster Aplin Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>32</b>



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	No	N/A
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: BoB,BoC,FoA,FuB,MBA  
Rt Approach Prism Fill: 0.75in  
Lt Approach Prism Fill: 0.5in

Notes: None.

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Unnamed tributary	co-0820-r-002	Sedimentation Risk Index <b>32</b>
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<u>Common:</u> 4.0mi N of Florala <u>Drainage:</u> Clear Creek <i>GPS:</i> 31.061369177, -86.337699081 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-17E-10 <u>Parcel No.:</u> 1 <u>Road Name:</u> Tram Rd	<u>State:</u> Alabama
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Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: Bob,BoC,DmB,FoA,LyA,MBA  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 1.0in

Notes: DS sediment loaded.

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Unnamed tributary	co-0820-r-010	Sedimentation Risk Index <b>32</b>
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<u>Common:</u> 7.9mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Beaver Creek <u>GPS:</u> 31.119467511, -86.316219563	<u>PLSS (T-R-S):</u> 2N-17E-23	
<u>Land owner:</u> JoAnn Greene	<u>Parcel No.:</u> 7.01	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoB,DMB,FoA,MBA  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 0.75in

Notes: None.

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Unnamed tributary	co-0830-r-001	Sedimentation Risk Index <b>32</b>
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<u>Common:</u> 8.35mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Beaver Creek <u>GPS:</u> 31.125586, -86.312967	<u>PLSS (T-R-S):</u> 2N-17E-23	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Johnson's Quarters	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoB,FoA,FuB,MBA,RaA
<u>Rt Approach Prism Fill:</u>	1.5in
<u>Lt Approach Prism Fill:</u>	1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EVERGREEN PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culvert almost buried.

<h1>Unnamed tributary</h1>	<h2>co-0831-r-004</h2>	<i>Sedimentation Risk Index</i> <b>32</b>
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<u>Common:</u> 9.0mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Beaver Creek <u>GPS:</u> 31.131894, -86.302256	<u>PLSS (T-R-S):</u> 2N-17E-24	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Johnsons Quarters	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	BoB,BoC,FoA,FuB,MBA	
<i>Rt Approach Prism Fill:</i>	0.5in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap blocking stream bed.

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Unnamed tributary	co-0820-r-005	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 5.7mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.086853712, -86.337426676	<u>PLSS (T-R-S):</u> 1N-17E-3	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Sturgeon Spawning	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: DmB, FoA, FuB, GrA, LuB, MBA, RaA  
Rt Approach Prism Fill: 1.5in  
Lt Approach Prism Fill: 0.25in

Notes: None.

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Unnamed tributary	co-0831-r-003	Sedimentation Risk Index <b>36</b>
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<u>Common:</u> 8.7mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Beaver Creek <u>GPS:</u> 31.129497, -86.307092	<u>PLSS (T-R-S):</u> 2N-17E-24	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Johnson's Quarters	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>36</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoB,BoC,FoA,FuB,MBA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.5in

Notes: High sediment loads from outlets

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Unnamed tributary	co-0812-r-013b	Sedimentation Risk Index <b>38</b>
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<u>Common:</u> 7.0mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Beaver Creek <u>GPS:</u> 31.106053, -86.325597	<u>PLSS (T-R-S):</u> 2N-17E-26	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 5	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EVERGREEN PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	PVC
<u>Soil Types:</u>	BoB,DmB,FoA,FuB,MBA,OrB,RaA
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.5in

Notes: Culvert undersized for wetland drainage

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Unnamed tributary	co-0820-r-006	Sedimentation Risk Index <b>38</b>
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<u>Common:</u> 5.9mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.090768061, -86.336509468	<u>PLSS (T-R-S):</u> 2N-17E-34	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: PVC  
Soil Types: FoA, FuB, LuB, MBA  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 0.25in

Notes: None.

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Unnamed tributary	co-0820-r-007	Sedimentation Risk Index <b>38</b>
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<u>Common:</u> 6.1mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.093397595, -86.334589086	<u>PLSS (T-R-S):</u> 2N-17E-34	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: Bob,FuB,MBA,RaA  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 0.1in

Notes: None.

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Unnamed tributary	co-0812-r-001	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 7.6mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> North Creek <u>GPS:</u> 31.090967, -86.406400	<u>PLSS (T-R-S):</u> 2N-16E-36	
<u>Land owner:</u> J.N & A.B. Heisler Heirs	<u>Parcel No.:</u> 6	
	<u>Road Name:</u> Laird Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Ford, 1
<u>Crossing Materials:</u>	Native Soil
<u>Soil Types:</u>	BoB,CdC,DmB,FoA,FuB,GrA,MBA
<u>Rt Approach Prism Fill:</u>	1.0in
<u>Lt Approach Prism Fill:</u>	0.5in

Notes: DS road erosion leading into wetland. Rock placed in US channel. Looks like there should be a culvert

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<h1>Beaver Creek</h1>	<h2>co-0812-r-013a</h2>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 7.3mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <i>GPS:</i> 31.109228, -86.323289	<u>PLSS (T-R-S):</u> 2N-17E-26	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 5	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EVERGREEN PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: BoB,DmB,FoA,FuB,MBA,OrB,RaA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.5in

Notes: Poor outlets

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<b>Dry Creek</b>	<b>co-0820-r-004</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 5.3mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.080673255, -86.341286533	<u>PLSS (T-R-S):</u> 1N-17E-3	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 3  
Crossing Materials: Metal  
Soil Types: MbA, FoA  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 0.75in

Notes: None.

Unnamed tributary	co-0820-r-008	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 6.5mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <i>GPS:</i> 31.099232101, -86.330790688	<u>PLSS (T-R-S):</u> 2N-17E-34	
<u>Land owner:</u> Rayonier Forest Resources LP DS, W&G Martin Heirs-US	<u>Parcel No.:</u> 3;1	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoB, DmB, FoA, FuB, MBA, RaA
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.75in

Notes: Evidence of past aggregate on the road?

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<h1>Unnamed tributary</h1>	<h2>co-0731-r-010</h2>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 4.8mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Horsehead Creek <u>GPS:</u> 31.039100, -86.396897	<u>PLSS (T-R-S):</u> 1N-16E-24	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Big Farm Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Reinforced Concrete

Soil Types: BoC,CdC,FuB,MBA,RaA

Rt Approach Prism Fill: 1.0in

Lt Approach Prism Fill: 4.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Possibly historically channelized

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Unnamed tributary	co-0812-r-005	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 8.6mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.122894, -86.373628	<u>PLSS (T-R-S):</u> 2N-17E-20	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 6	
	<u>Road Name:</u> Swimming Hole Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BgA,FoA,IbA,MBA,TrB,TrD
<u>Rt Approach Prism Fill:</u>	0.75in
<u>Lt Approach Prism Fill:</u>	0.25in

Notes: Rip rap filled culvert outlet.

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<h1>Clear Creek</h1>	<h2>co-0812-r-012</h2>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 7.6mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.116353, -86.318125	<u>PLSS (T-R-S):</u> 2N-17E-26	
<u>Land owner:</u> Ronnie & Cindy Moates	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: BoB, FoA, FuB, LuB, MBA  
Rt Approach Prism Fill: 0.2in  
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Low flow.

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<b>Clear Creek</b>	<b>co-0820-r-001</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 3.7mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.0566075, -86.341810698	<u>PLSS (T-R-S):</u> 1N-17E-15	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Tram Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: BoB, BoC, FoA, FuB,MBA  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 1.0in

Notes: Old bridge in channel

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Unnamed tributary	co-0831-r-002	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 8.5mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Beaver Creek <u>GPS:</u> 31.128261, -86.309600	<u>PLSS (T-R-S):</u> 2N-17E-24	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Johnson's Quarters	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoB,BoC,FoA,FuB,RaA  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.25in

Notes: Culvert crushed

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<b>Dry Creek</b>	<b>co-0812-r-004</b>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 8.5mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.122884, -86.363344	<u>PLSS (T-R-S):</u> 2N-17E-20	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 6	
	<u>Road Name:</u> Swimming Hole Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Bridge, 1
<i>Crossing Materials:</i>	Wood
<i>Soil Types:</i>	BoC,DmB,FuB,MBA,TrD
<i>Rt Approach Prism Fill:</i>	0.5in
<i>Lt Approach Prism Fill:</i>	0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Semi-private road. Dead end, does not appear to receive a lot of traffic.

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Unnamed tributary	co-0812-r-010	Sedimentation Risk Index <b>46</b>
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<u>Common:</u> 8.3mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.126136, -86.330511	<u>PLSS (T-R-S):</u> 2N-17E-22	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Booker Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: BoB,BoC,DmB,EsC,GrA,MBA,OrA,OrB  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.15in

Notes: None.

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Unnamed tributary	co-0820-r-009	Sedimentation Risk Index <b>46</b>
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<u>Common:</u> 6.6mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.101564654, -86.332444522	<u>PLSS (T-R-S):</u> 2N-17E-34	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Betty's Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoB, DMB, FoA
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EVERGREEN PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Submerged culvert.

<h1>Craw Pond</h1>	<h2>co-0812-r-007</h2>	<i>Sedimentation Risk Index</i> <h1>48</h1>
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<u>Common:</u> 9.8mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.146472, -86.343528	<u>PLSS (T-R-S):</u> 2N-17E-15	
<u>Land owner:</u> Albert & James Cravey	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> New Hope Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: CdC,DmB,FoA,FuB,MBA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.25in

Notes: None

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Unnamed tributary	co-0812-r-008	Sedimentation Risk Index <b>48</b>
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<u>Common:</u> 8.6mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek	<u>PLSS (T-R-S):</u> 2N-17E-22	
<u>Land owner:</u> Rodney Helms	<u>Parcel No.:</u> 3	
<u>GPS:</u> 31.128061, -86.344464	<u>Road Name:</u> Booker Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	BoB,BoC,DmB,EsC,GrA,MBA,OrA,OrB
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.5in

Notes: Fencing across US




Unnamed tributary	co-0812-r-006	Sedimentation Risk Index <b>50</b>
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<u>Common:</u> 8.6mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.121189, -86.375328	<u>PLSS (T-R-S):</u> 2N-17E-20	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 6	
	<u>Road Name:</u> Swimming Hole Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	A	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BgA,FoA,IbA,MBA,TrB,TrD
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	co-0812-r-003	Sedimentation Risk Index <b>54</b>
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<u>Common:</u> 8.0mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Clear Creek <u>GPS:</u> 31.110944, -86.378897	<u>PLSS (T-R-S):</u> 2N-17E-30	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 8	
	<u>Road Name:</u> Camp Eleven Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>54</b>

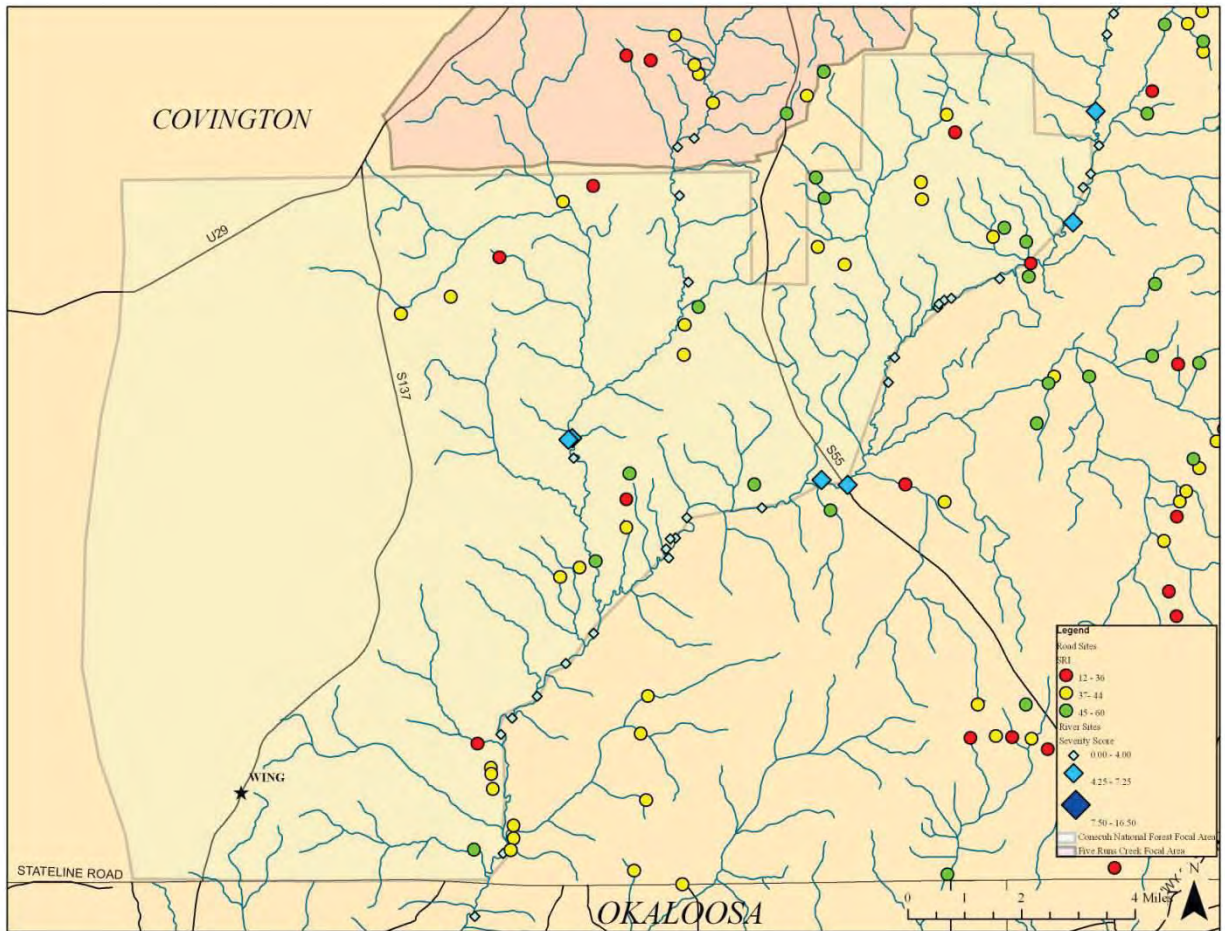


Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoC,CdC,DmB,FoA,MBA,OrC,RaA
<u>Rt Approach Prism Fill:</u>	0.75in
<u>Lt Approach Prism Fill:</u>	0.25in

Notes: Highly vegetated.

Appendix D. Conecuh National Forest Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



<b>Yellow River</b>	<b>co-0807-008</b>	<b>Severity Score</b> <b>5.25</b>
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Common: 9mi NW of Florala      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.095519537, -86.435215265      PLSS(T-R-S): 2N-16E-34  
Land owner: RB: Unknown/ LB: James & Mary Phillips      Parcel No.: RB: ? / LB: 13/49AC



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	METALS (MERCURY)
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Sturgeon Spawning	No	N/A
<i>Local NPSP</i>	Obvious Sources	1	Candidate Mussels	Yes	FUZZY PIGTOE, SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Notes: Shoring structure under Hwy 55 bridge composed of concrete and rip rap.		
<i>Water Odors</i>	Not Present	0			
<i>Fish Passage Barrier</i>	Not Present	0			
<i>RB: Riparian Buffer</i>	100+ ft	0			
<i>LB: Riparian Buffer</i>	100+ ft	0			
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>5.25</b>			
<b>Additional Site Features</b>					
<i>Stream Channel Woody Material:</i>	Infrequent				
<i>Impoundments:</i>	None				
<i>Substrate Composition:</i>	Medium Sand				
<i>Bank Material:</i>	Sand				

Restoration Recommendations: TBD

<b>Yellow River</b>	<b>co-0807-009</b>	<b>Severity Score</b> <b>5</b>
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Common: 9.3mi NW of Florala      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.096783472, -86.44299956      PLSS(T-R-S): 2N-16E-34  
Land owner: USA- Conecuh Nat. Forest.      Parcel No.: 3/251AC



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	METALS (MERCURY)
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Mass-wasting	1.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	Yes	FUZZY PIGTOE, SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>5</b>			

Notes: Past silviculture area. Large reach.

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<b>Five Runs Creek</b>	<b>co-0924-003</b>	<b>Severity Score</b> <b>4.5</b>
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Common: 9mi S of Carolina, .08mi US of Co Rd 24 bridge crossing  
Drainage: Yellow River GPS: 31.10748248, -86.518107393  
Land owner: USA- Conecuh Nat. Forest

County: Covington State: Alabama  
PLSS(T-R-S): 2N-15E-26  
Parcel No.: 1



RB

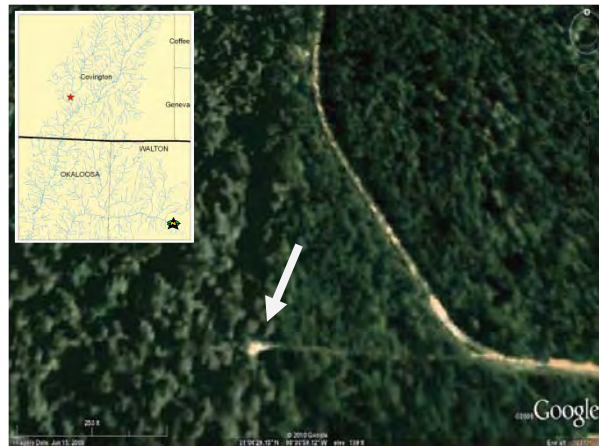


Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	Historic, Mostly Recovered	0.5	Wetland Species	No	N/A
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST, UPLAND LONGLEAF PINE WOODLAND - OPEN UNDERSTORY MODI
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	Yes	CHOCTAW BEAN
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Manmade Materials		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.5</b>			

Notes: Shoring structure is concrete and wood for an old bridge crossing wall.

<b>Five Runs Creek</b>	<b>co-0924-002</b>	<b>Severity Score</b> <b>4.5</b>
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Common: 14mi S of Andalusia      County: Covington      State: Alabama  
Drainage: Yellow River      GPS: 31.107806246, -86.516917293      PLSS(T-R-S): 2N-15E-26  
Land owner: USA – Conecuh Nat. Forest      Parcel No.: 1



**LB**

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Mass Wasting	1.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND - LOBLOLLY MODIFIER
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	Yes	CHOCTAW BEAN
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.5</b>			

Notes: Forest road 0.2 mi east with primitive trail leading to this site.

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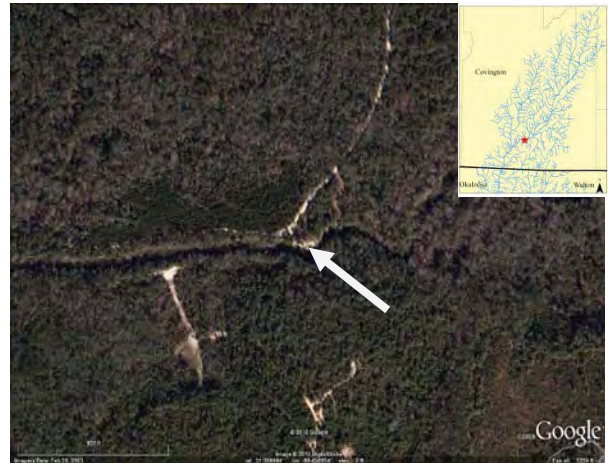
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<b>Yellow River</b>	<b>co-0610-001</b>	<i>River Threat Index</i> <b>4.25</b>
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*Common:* 9.6 mi NW of Florala      *County:* Covington      *State:* Alabama  
*Drainage:* Blackwater Bay      *GPS:* 31.001583541, -86.5380255      *PLSS:* 2N-16E-33  
*Land owner:* RB: Dixon Family Partnership; Eilene Beard      *Parcel No.:* 6.04; 2.04



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active Erosion	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	No	N/A
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand, limestone, some clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.25</b>			

Notes: Recreational site and known Gulf Sturgeon spawning location. High sediment load coming from unimproved unpaved Drip Rock Road. Fake (?) surveillance closed circuit cameras installed on surrounding trees. Trash barrels present on shore.



<b>Five Runs Creek</b>	<b>co-0923-003</b>	<i>Severity Score</i> <b>3.75</b>
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<u>Common:</u> 9.6mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.16969204, -86.484788179	<u>PLSS(T-R-S):</u> 2N-16E-6	
<u>Land owner:</u> U.S.A- Conecuh Nat. Forest	<u>Parcel No.:</u> 1	



**RB**

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Clay and Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>3.75</b>			

Notes: Active erosion but with some new growth on bank.

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<b>Yellow River</b>	<b>co-0813-003</b>	<b>Severity Score</b> <b>3.25</b>
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Common: 9.9mi SW of Opp      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.171195284, -86.364996603      PLSS(T-R-S): 2N-17E-5  
Land owner: T. Ivey Powell & Sons Inc.      Parcel No.: 1/478AC



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A/ UPLAND LONGLEAF PINE WOODLAND - OPEN UNDERSTORY MODI
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sandy Loam		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>3.25</b>			

Notes: Large reach of active erosion.

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<b>Five Runs Creek</b>	<b>co-0924-004</b>	<i>Severity Score</i> <b>2.75</b>
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Common: 10.1mi SE of Libertyville      County: Covington      State: Alabama  
Drainage: Yellow River      GPS: 31.102740262, -86.516591809      PLSS: 2N-15E-26  
Land owner: USA      Parcel No.: 1



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Low-Very Low	0.5	Land Use/Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	Yes	CHOCTAW BEAN
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.75</b>			

Notes: None

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<b>Yellow River</b>	<b>co-0807-003</b>	<b>Severity Score</b> <b>2.5</b>
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Common: 13mi SW of Opp      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.142389417, -86.406474785      PLSS: 2N-16E-13  
Land owner: RB: USA / LB: James & Patricia Caton      Parcel No.: RB: 2 LB: 3



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>2.5</b>			

Notes: Numerous deposits and some bank erosion present.

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<h1>Yellow River</h1>	<h2>co-0805-004</h2>	<b>Severity Score</b> <h1>2.25</h1>
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Common: 11.3mi SE of Carolina      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.079379625, -86.489218786      PLSS: 1N-16E-6  
Land owner: RB: USA / LB: James & Patricia Battles      Parcel No.: 2 / 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	Yes	N/A / UPLAND LONGLEAF PINE WOODLAND - OPEN UNDERSTORY MODI
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.25</b>			

Notes: Numerous amounts of large woody debris and deep pools.

<b>Five Runs Creek</b>	<b>co-0924-001</b>	<i>Severity Score</i> <b>2.25</b>
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Common: 7mi S of Libertyville      County: Covington      State: Alabama  
Drainage: Yellow River      GPS: 31.147578049, -86.482247038      PLSS: 2N-16E-7  
Land owner: USA- Conecuh Nat. Forest      Parcel No.: 1



**LB**

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.25</b>			

Notes: None

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<b>Yellow River</b>	<b>co-0805-002</b>	<b>Severity Score</b> <b>1.75</b>
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Common: 10.8mi NW of Florala      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.082140978, -86.486431767      PLSS: 1N-16E-6  
Land owner: RB: USA-Conecuh Nat Forest/LB: James & Patricia Battles      Parcel No.: 2/1



**LB**

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	Yes	N/A / OPEN WATER (FRESH)
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: Some bank erosion apparent, may be natural meander bend incision.

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<b>Yellow River</b>	<b>co-0805-001</b>	<b>Severity Score</b> <b>1.75</b>
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Common: 10.7mi NW of Florala      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.087333225, -86.483012892      PLSS: 1N-16E-6  
Land owner: RB: USA / LB: James & Patricia Battles      Parcel No.: 2/1



RB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: Some bank erosion apparent, possibly natural meander bend.

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<h1>Yellow River</h1>	<h2>co-0807-005</h2>	<b>Severity Score</b> <h1>1.75</h1>
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Common: 7.5mi SE of Libertyville      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.140787696, -86.408113426      PLSS: 2N-16E-13  
Land owner: RB: USA/ LB: James & Patricia Caton      Parcel No.: 2/3



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> None		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: Some erosion and fresh deposits across the channel. Top of left bank is vegetated with grasses which have shallow roots making this site more prone to erosion.

<b>Yellow River</b>	<b>co-0807-004</b>	<b>Severity Score</b> <b>1.75</b>
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Common: 7.5mi SE of Libertyville      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.141633378, -86.408140513      PLSS: 2N-16E-13  
Land owner: RB: USA/ LB: James & Patricia Caton      Parcel No.: 2/3



RB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A/ UPLAND LONGLEAF PINE WOODLAND - OPEN UNDERSTORY MODI
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: None

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<b>Yellow River</b>	<b>co-0807-002</b>	<b>Severity Score</b> <b>1.75</b>
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Common: 7.6mi SE of Libertyville      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.142995678, -86.404404093      PLSS: 2N-16E-13  
Land owner: Patricia Vick Moody      Parcel No.: 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: Some erosion is apparent, but may be due to natural meander incision.

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<h1>Yellow River</h1>	<h2>co-0609-010</h2>	<b>Severity Score</b> <h1>1.5</h1>
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<u>Common:</u> 12.5 W of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.001583541, -86.5380255	<u>PLSS:</u> 1N-15E-34	
<u>Land owner:</u> RB: Rayonier Woodlands LLC/ LB: Unknown	<u>Parcel No.:</u> 7	



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Low- Very Low	0	Land Use/ Cover	No	N/A
<i>Local NPSP</i>	Slight	0.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.5</b>			

Notes: None

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<b>Yellow River</b>	<b>co-0813-002</b>	<i>Severity Score</i> <b>1.5</b>
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Common: 7.3mi SE of Libertyville      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.174777403, -86.362564852      PLSS: 2N-17E-5  
Land owner: T. Ivey Powell & Sons Inc      Parcel No.: 1



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A/ UPLAND LONGLEAF PINE WOODLAND - OPEN UNDERSTORY MODI
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Silty Loam		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.5</b>			

Notes: None

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<b>Yellow River</b>	<b>co-0609-002</b>	<i>Severity Score</i> <b>1</b>
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<p><u>Common:</u> 1.3mi SW of Horn Hill  <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.0578726, -86.5108143  <u>Land owner:</u> LB: Nathaniel Wright, Tr. / RB: USA</p>	<p><u>County:</u> Covington  <u>PLSS:</u> 1N-15E-13  <u>Parcel No.:</u> 2/3</p>	<p><u>State:</u> Alabama</p>
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LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Low-Very Low	0	Land Use/Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1</b>			

Notes: New growth on bank degradation

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Yellow River	co-0805-003	Severity Score 1.75
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Common: 10.9mi NW of Florala      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.081969381, -86.487947841      PLSS: 1N-16E-6  
Land owner: RB: USA / LB: James & Patricia Battles      Parcel No.: 2/1



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: Some bank erosion apparent may be natural meander incision. Large aggradational site across channel could indicate some channel instability.

<b>Unnamed tributary</b>	<b>co-0810-r-017</b>	<b>Sedimentation Risk Index</b> <b>30</b>
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<u>Common:</u> 9.5mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Hog Foot Creek <u>GPS:</u> 31.172308, -86.510336	<u>PLSS (T-R-S):</u> 2N-15E-1	
<u>Land owner:</u> Harold & Elizabeth Barrow DS, Beatrice & Fred Forte - US	<u>Parcel No.:</u> 6; 3	
	<u>Road Name:</u> Groger Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	PVC	
<i>Soil Types:</i>	BoB,DmB,FuB,MBA	
<i>Rt Approach Prism Fill:</i>	0.2in	
<i>Lt Approach Prism Fill:</i>	0.2in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	IRONCOLOR SHINER
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS channel parallels private pond.



<h1 style="margin:0;">Boggy Creek</h1>	<h2 style="margin:0;">co-0810-r-019</h2>	<b>Sedimentation Risk Index</b> <h1 style="margin:0; color: white;">34</h1>
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<u>Common:</u> 11.0mi SW of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Hog Foot Creek <u>GPS:</u> 31.154053, -86.538403	<u>PLSS (T-R-S):</u> 2N-15E-10	
<u>Land owner:</u> Judith Anderson	<u>Parcel No.:</u> 2.01	
	<u>Road Name:</u> Hog Foot Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Partially Improved Outlet System	3
<b>Ditches Total</b>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	IRONCOLOR SHINER
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoC,CdC,DmB,MBA  
Rt Approach Prism Fill: 0.3in  
Lt Approach Prism Fill: 2.0in

Notes: Receiving large sediment loads from outlets.

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Unnamed tributary	co-0901-r-014	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 7.9mi SE of Andalusia <u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.185399140, -86.402745904 <u>Land owner:</u> Opal Couch	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-36 <u>Parcel No.:</u> 1 <u>Road Name:</u> Nature Rd	<u>State:</u> Alabama
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Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY, DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: PVC  
Soil Types: CdB,CdC,FoA,FuB  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.2in

Notes: Cattle access.

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<h1>Rum Creek</h1>	<h2>co-0729-r-001</h2>	<i>Sedimentation Risk Index</i> <b>36</b>
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<u>Common:</u> 6.7mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.029717, -86.545514	<u>PLSS (T-R-S):</u> 1N-15E-22	
<u>Land owner:</u> USA – Conecuh National Forest	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Sanders Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: EuA, IbA, LuB, LyA, MBA, TrD

Rt Approach Prism Fill: 1.0in

Lt Approach Prism Fill: 1.5in

Notes: Close proximity to YR main stem

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<h1>Unnamed tributary</h1>	<h2>co-0810-r-005</h2>	<i>Sedimentation Risk Index</i> <b>36</b>
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<u>Common:</u> 9.0mi N of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <span style="float:right"><u>GPS:</u> 31.092025, -86.500908</span>	<u>PLSS (T-R-S):</u> 2N-15E-36	
<u>Land owner:</u> USA- Conecuh Nat. Forest	<u>Parcel No.:</u> 4	
	<u>Road Name:</u> Bass Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Partially Improved Outlet System	<b>3</b>
<b>Ditches Total</b>	Partially Improved Drainage System	<b>3</b>
<b>SRI Total</b>	<b>High Risk</b>	<b>36</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Culvert, 1	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	BoB,BoC,FoA,FuB	
<u>Rt Approach Prism Fill:</u>	0.25in	
<u>Lt Approach Prism Fill:</u>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Buried culvert.

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<h1>Yellow River</h1>	<h2>co-0901-r-018</h2>	<i>Sedimentation Risk Index</i> <b>36</b>
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<u>Common:</u> 10.6mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Blackwater Bay <i>GPS:</i> 31.151966691, -86.380550391	<u>PLSS (T-R-S):</u> 2N-17E-7	
<u>Land owner:</u> T. Ivey Powell & Sons Inc	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Cravey Bridge Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Reinforced Concrete	
<i>Soil Types:</i>	BgA, EuA, FoA, IbA	
<i>Rt Approach Prism Fill:</i>	1.0in	
<i>Lt Approach Prism Fill:</i>	1.0in	



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	N/A/ PASTURE/HAY
<b>Candidate Mussels</b>	Yes	SOUTHERN SANDSHELL, CHOCTAW BEAN
<b>Sturgeon C.H.</b>	No	N/A

Notes: None

<b>Unnamed tributary</b>	<b>co-0810-r-001</b>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> 6.3mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.023509, -86.541454	<u>PLSS (T-R-S):</u> 1N-15E-27	
<u>Land owner:</u> Charles Barton	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Sanders Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	EuA, IbA, KaA, IbA, LyA, MBA
<u>Rt Approach Prism Fill:</u>	1.0in
<u>Lt Approach Prism Fill:</u>	2.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- OPEN UNDERSTORY MODI
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Low flow. Close proximity to YR main stem.

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Unnamed tributary	co-0810-r-006	Sedimentation Risk Index <b>38</b>
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<u>Common:</u> 8.8mi N of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.084900, -86.501000	<u>PLSS (T-R-S):</u> 1N-15E-1	
<u>Land owner:</u> Kermit George	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Bass Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	C	5
DS Bank Alteration	HIGH	1
Upstream Skew Angle	5-30°	3
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	No Impairment	5
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Bare soil	0
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Bare soil	0
Downstream Lt Outlet	Bare soil	0
Downstream Rt Ditch	Synthetic	1
Downstream Lt Ditch	Bare soil	0
<b>Outlet Total</b>	Unimproved Outlet System	1
<b>Ditches Total</b>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Culvert, 1	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	BoB,BoC,FoA,FuB, MBA,RaA	
<u>Rt Approach Prism Fill:</u>	0.25in	
<u>Lt Approach Prism Fill:</u>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Road actively eroding over culvert.

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<b>Unnamed tributary</b>	<b>co-0810-r-002</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 6.2mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.021944, -86.541336	<u>PLSS (T-R-S):</u> 1N-15E-27	
<u>Land owner:</u> Charles Barton	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Sanders Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Synthetic	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Partially Improved Outlet System	3
<b>Ditches Total</b>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: EuA, IbA, KaA, IbA, LyA, MBA  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.5in

Notes: Aggregate has washed DS and formed an island.

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<h1>Unnamed tributary</h1>	<h2>co-0810-r-009</h2>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 8.2mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.072219, -86.520719	<u>PLSS (T-R-S):</u> 1N-15E-11	
<u>Land owner:</u> R.Wayne & Dewain Bass-US, Linda Kloter-DS	<u>Parcel No.:</u> 2; 2.02	
	<u>Road Name:</u> Bass Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>40</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: BoB,BoC,DmB,FoA,FuB,LuB,MBA,OrB

Rt Approach Prism Fill: 0.10in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	co-0810-r-011	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 13.0mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.136572, -86.483358	<u>PLSS (T-R-S):</u> 2N-16E-18	
<u>Land owner:</u> USA-Conecuh Nat. Forest	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Shiloh Cemetery Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Synthetic	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	PVC
<u>Soil Types:</u>	BoC,FoA,IbA,LyA,RaA
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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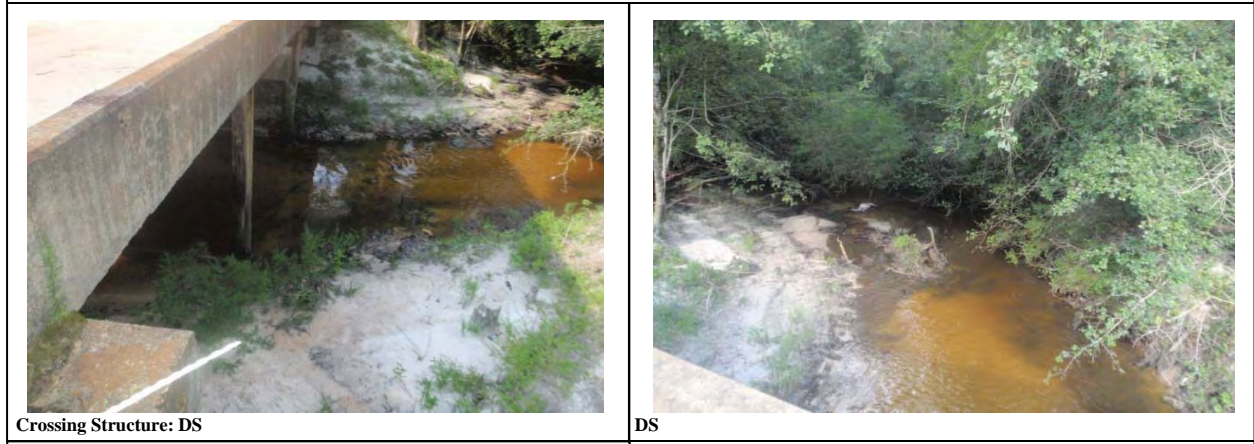
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<h1>Hog Foot Creek</h1>	<h2>co-0810-r-018</h2>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 9.8mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.168303, -86.519333	<u>PLSS (T-R-S):</u> 2N-15E-2	
<u>Land owner:</u> USA-Conecuh Nat. Forest	<u>Parcel No.:</u> 5	
	<u>Road Name:</u> Hog Foot Rd	



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1; Culvert, 1	
<i>Crossing Materials:</i>	Reinforced Concrete; Metal	
<i>Soil Types:</i>	BoB,BoC,DmB,EuA,FoA,IbA,MBA	
<i>Rt Approach Prism Fill:</i>	0.1in	
<i>Lt Approach Prism Fill:</i>	0.1in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	IRONCOLOR SHINER
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culvert approx. 150 ft north of the bridge crossing. Dry and rip rap-filled.

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<b>Unnamed tributary</b>	<b>co-0810-r-021</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 12.6mi SW of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Persimmon Creek <u>GPS:</u> 31.139772, -86.567758	<u>PLSS (T-R-S):</u> 2N-15E-17	
<u>Land owner:</u> USA-Conecuh Nat. Forest	<u>Parcel No.:</u> 4	
	<u>Road Name:</u> Hog Foot Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>

Additional Site Features	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoB,BoC,DmB,MBA,TrB,TrD
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	2.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	IRONCOLOR SHINER
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	co-0901-r-013	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 9.1mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.190133365, -86.405117679	<u>PLSS (T-R-S):</u> 3N-16E-36	
<u>Land owner:</u> Rayonier Woodlands LLC	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> Nature Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoC,CdC,FoA,FuB
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.5in

Notes: None

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<b>Unnamed tributary</b>	<b>co-0810-r-003</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 6.1mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.018119,-86.540964	<u>PLSS (T-R-S):</u> 1N-15E-27	
<u>Land owner:</u> Charles Barton	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Sanders Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Synthetic	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	Yes	METALS (MERCURY)
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: EuA,IbA, KaA, IbA, LyA, MBA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.25in

Notes: Sediment loading DS from outlets. Close proximity to YR main stem.

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<b>Unnamed tributary</b>	<b>co-0810-r-008</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 8.2mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.074672, -86.514890	<u>PLSS (T-R-S):</u> 1N-15E-2	
<u>Land owner:</u> USA- Conecuh Nat. Forest	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Bass Rd	

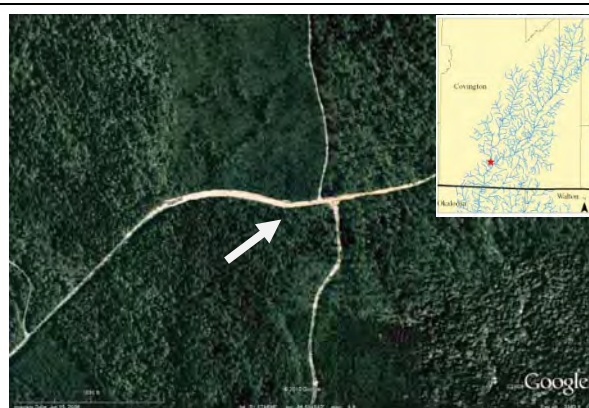


Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Culvert, 1	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	BoC, EuA,FoA,FuB,RaA	
<u>Rt Approach Prism Fill:</u>	0.1in	
<u>Lt Approach Prism Fill:</u>	0.1in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

<b>Unnamed tributary</b>	<b>co-0810-r-012</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 12.6mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Gum Creek <u>GPS:</u> 31.128961, -86.483664	<u>PLSS (T-R-S):</u> 2N-16E-19	
<u>Land owner:</u> USA-Conecuh Nat. Forest	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Shiloh Cemetery Rd	

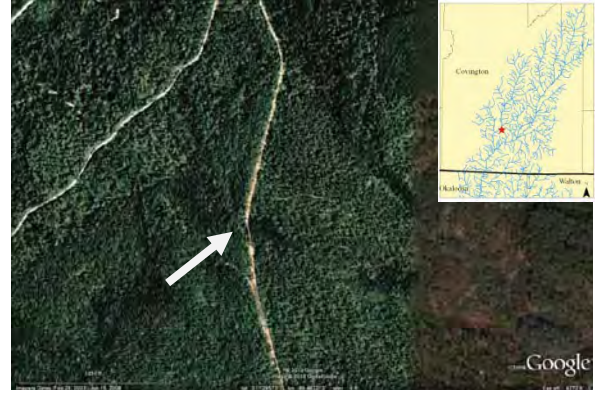


Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	PVC
<u>Soil Types:</u>	BoC,CdC,LuB,RaA,TrD
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	0.1in

Notes: None

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Unnamed tributary	co-0901-r-010	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 12.6mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poplar Creek <i>GPS:</i> 31.172833812, -86.412936652	<u>PLSS (T-R-S):</u> 2N-16E-2/1	
<u>Land owner:</u> B.E. & Pearl Creel -DS, T.Ivey Powell & Sons Inc-US	<u>Parcel No.:</u> 1;3	
	<u>Road Name:</u> Tim Powell Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST, PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoC,CdB,CdC,DmB,FuB,MBA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.1in

Notes: Fencing across US. Washed in aggregate.

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<b>Unnamed tributary</b>	<b>co-0810-r-020</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 12.0mi SW of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Camp Creek <i>GPS:</i> 31.144097, -86.552844	<u>PLSS (T-R-S):</u> 2N-15E-16	
<u>Land owner:</u> USA-Conecuh Nat. Forest	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Hog Foot Rd.	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Culvert, 1
<i>Crossing Materials:</i>	PVC
<i>Soil Types:</i>	CdB,CdC,FuB,LuB,MBA,TrB,TrD
<i>Rt Approach Prism Fill:</i>	0.1in
<i>Lt Approach Prism Fill:</i>	0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	IRONCOLOR SHINER
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- OPEN UNDERSTORY MODI
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Receiving high sediment loads from outlets and bare fill.

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<b>Unnamed tributary</b>	<b>co-0901-r-008</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 12.5mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Spring Branch <u>GPS:</u> 31.156458123, -86.443771608	<u>PLSS (T-R-S):</u> 2N-16E-10	
<u>Land owner:</u> Thomas & Margaret Gross US. Mrs. JM Forte – DS	<u>Parcel No.:</u> 6; 7; 7.01	
North, WP Bulger – DS South	<u>Road Name:</u> Bulger Town Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoC,CdB,CdC,DmB,FoA,FuB,MBA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.1in

Notes: Rip rap DS stream bed

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<b>Unnamed tributary</b>	<b>co-0901-r-009</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 12.0mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poplar Creek <i>GPS:</i> 31.151824411, -86.435759804	<u>PLSS (T-R-S):</u> 2N-16E-10	
<u>Land owner:</u> Mildred Bulger -US, Paul & Sara Mixson –DS	<u>Parcel No.:</u> 14; 14.03	
	<u>Road Name:</u> Bulger Town Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Culvert, 1
<i>Crossing Materials:</i>	Metal
<i>Soil Types:</i>	BoC,CdC,DmB,MBA,OrC
<i>Rt Approach Prism Fill:</i>	0.25in
<i>Lt Approach Prism Fill:</i>	0.05in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	co-0901-r-011	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 12.3mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poplar Creek <i>GPS:</i> 31.168688885, -86.412788931	<u>PLSS (T-R-S):</u> 2N-16E-2/1	
<u>Land owner:</u> T & TW -DS, T.Ivey Powell & Sons Inc. -US	<u>Parcel No.:</u> 7.01; 3	
	<u>Road Name:</u> Tim Powell Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoC,CdB,CdC,DmB,FuB,MBA  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.05in

Notes: Fence across US

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<b>Unnamed tributary</b>	<b>co-0901-r-015</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 11.6mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.158752073, -86.391583846	<u>PLSS (T-R-S):</u> 2N-17E-7	
<u>Land owner:</u> Patricia Moody	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> Lake Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	BoC,CdC,FoA,FuB,MBA	
<i>Rt Approach Prism Fill:</i>	0.75in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Highly vegetated

Unnamed tributary	co-0810-r-004	Sedimentation Risk Index <b>46</b>
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<u>Common:</u> 9.5mi N of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.098728, -86.499981	<u>PLSS (T-R-S):</u> 2N-15E-36	
<u>Land owner:</u> Kermit George	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Bass Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Blocked	1
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	<2%	5
Soil K Factor	<0.20	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Bare soil	0
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoC, FoA, FuB
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- OPEN UNDERSTORY MODI
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

<b>Unnamed tributary</b>	<b>co-0901-r-006</b>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 9.5mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.174115807, -86.444146358	<u>PLSS (T-R-S):</u> 2N-16E-3	
<u>Land owner:</u> RTG1 LP (Dixon)	<u>Parcel No.:</u> 2.01	
	<u>Road Name:</u> Braswell Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: PVC  
Soil Types: BoB,CdC,DmB,FoA,FuB,MBA  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Notes: Old aggregate washed into outlets

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<b>Unnamed tributary</b>	<b>co-0901-r-016</b>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 11.6mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.161090750, -86.388066995	<u>PLSS (T-R-S):</u> 2N-17E-7	
<u>Land owner:</u> Patricia Moody	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> Lamar Lake Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoC,CdC,FoA,FuB,MBA  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 0.5in

Notes: Rip rap in stream bed.

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<h1 style="margin:0;">Five Runs Creek</h1>	<h2 style="margin:0;">co-0810-r-007</h2>	<i>Sedimentation Risk Index</i> <b style="font-size: 1.5em;">48</b>
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<u>Common:</u> 8.2mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.076217, -86.510185	<u>PLSS (T-R-S):</u> 1N-15E-1	
<u>Land owner:</u> USA-Conecuh Nat. Forest	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Bass Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>48</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Metal

Soil Types: BoC, EuA, FoA, FuB, IbA, RaA

Rt Approach Prism Fill: 0.1in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- OPEN UNDERSTORY MODI
<b>Candidate Mussels</b>	Yes	SOUTHERN SANDSHELL, CHOCTAW BEAN
<b>Sturgeon C.H.</b>	No	N/A

Notes: None

Unnamed tributary	co-0810-r-010	Sedimentation Risk Index <b>48</b>
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<u>Common:</u> 13.1mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.141211, -86.479211	<u>PLSS (T-R-S):</u> 2N-16E-17	
<u>Land owner:</u> USA- Conecuh National Forest	<u>Parcel No.:</u> 5	
	<u>Road Name:</u> Shiloh Cemetery Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	PVC
<u>Soil Types:</u>	LyA, MBA, RaA
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

<b>Unnamed tributary</b>	<b>co-0810-r-011</b>	<i>Sedimentation Risk Index</i> <b>48</b>
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<i>Common:</i> 10.1mi NW of Floala	<i>County:</i> Covington	<i>State:</i> Alabama
<i>Drainage:</i> Yellow River <i>GPS:</i> 31.095753, -86.462847	<i>PLSS (T-R-S):</i> 2N-16E-33	
<i>Land owner:</i> Catherine Dixon Roland	<i>Parcel No.:</i> 2.01	
	<i>Road Name:</i> Drip Rock Rd	

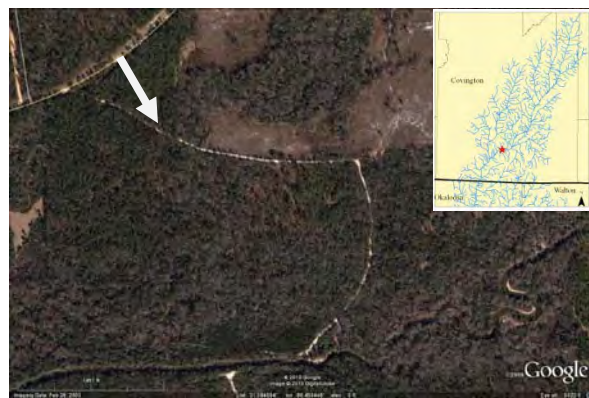


Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>48</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- OPEN UNDERSTORY MODI
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Culvert, 1
<i>Crossing Materials:</i>	Metal
<i>Soil Types:</i>	EuA,IbA,KaA,RaA
<i>Rt Approach Prism Fill:</i>	0.1in
<i>Lt Approach Prism Fill:</i>	0.1in

Notes: Dripping rock road. Feeds DS of sturgeon on YR main stem.

<b>Unnamed tributary</b>	<b>co-0901-r-007</b>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 9.9mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.168819779, -86.441611588	<u>PLSS (T-R-S):</u> 2N-16E-3	
<u>Land owner:</u> RTG1 LP (Dixon)	<u>Parcel No.:</u> 2.01	
	<u>Road Name:</u> Braswell Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Synthetic	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: FoA, FuB, LyA, MBA  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Notes: None

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<b>Unnamed tributary</b>	<b>co-0901-r-017</b>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 11.0mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.157421325, -86.381592263	<u>PLSS (T-R-S):</u> 2N-17E-7	
<u>Land owner:</u> T. Ivey Powell & Sons Inc	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Cravey Bridge Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ LOW INTENSITY DEVELOPED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	BgA, EuA, FoA, FuB, MBA, RaA
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.75in

Notes: Poorly maintained rd.

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<h1>Buck Creek</h1>	<h2>co-0729-r-002</h2>	<i>Sedimentation Risk Index</i> <b>52</b>
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<u>Common:</u> 5.7mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.002600, -86.546578	<u>PLSS (T-R-S):</u> 1N-15E-34	
<u>Land owner:</u> Rayonier Woodlands LLC	<u>Parcel No.:</u> 7	
	<u>Road Name:</u> Moores Mill Creek Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Low Risk</b>	<b>52</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Reinforced Concrete

Soil Types: CdB, EuA, LyA, MBA, TrD

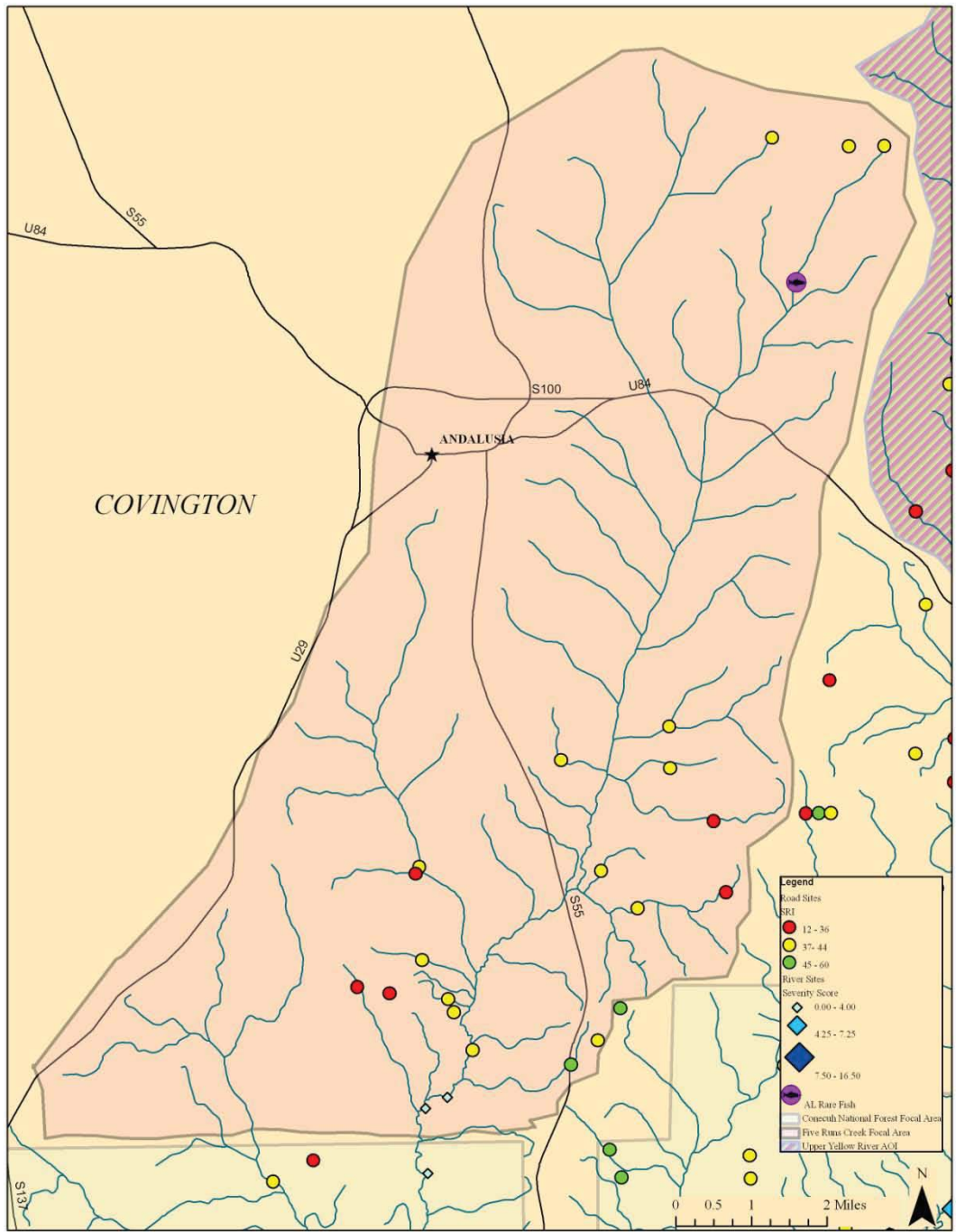
Rt Approach Prism Fill: 0.5in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Close proximity to YR main stem.

Appendix E. Five Runs Creek Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).





<b>Five Runs Creek</b>	<b>co-0923-001</b>	<i>Severity Score</i> <b>5</b>
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Common: 8.5 miles S of Andalusia      County: Covington      State: Alabama  
Drainage: Yellow River      GPS: 31.1836621, -86.480343699      PLSS: 3N-16E-32  
Land owner: Roger & Effie Sightler      Parcel No.: 2



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Present	1.5	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Clay Marl		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>5</b>			

Notes: Private road leading to creek's edge, ending at the pictured bare spot.

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<b>Five Runs Creek</b>	<b>co-0923-002</b>	<i>Severity Score</i> <b>2</b>
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Common: 8.6mi S of Andalusia      County: Covington      State: Alabama  
Drainage: Yellow River      GPS: 31.182184602, -86.485253561      PLSS: 3N-16E-31  
Land owner: LB: C&G LLC/ RB: James & Mira Walker      Parcel No.: 3/ 1.03



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2</b>			

Notes: Outside bend- natural feature.

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Unnamed tributary	co-1029-r-008	Sedimentation Risk Index <b>24</b>
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<u>Common:</u> 7.0mi NE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.366621734, -86.385947566	<u>PLSS (T-R-S):</u> 5N-17E-30	
<u>Land owner:</u> John & Rosemary Powers	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> George Mims Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>24</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: CdB, CdC, DmB, MBA, OrB, OrC

Rt Approach Prism Fill: 0.15in

Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLUENOSE SHINER
Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Submerged culvert draining US agriculture pond.

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Unnamed tributary	co-0901-r-012	Sedimentation Risk Index <b>30</b>
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<u>Common:</u> 6.8mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.223505943, -86.417912932	<u>PLSS (T-R-S):</u> 3N-16E-14	
<u>Land owner:</u> Sammy & Bobby Brown	<u>Parcel No.:</u> 10	
	<u>Road Name:</u> Sammy Brown Road	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	PVC
<u>Soil Types:</u>	BnB,BnC,CdB,CdC,DmB,LyA
<u>Rt Approach Prism Fill:</u>	0.2in
<u>Lt Approach Prism Fill:</u>	0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / LOW INTENSITY DEVELOPED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across DS. Channelized.

<h1>Unnamed tributary</h1>	<h2>co-0810-r-015</h2>	<i>Sedimentation Risk Index</i> <b>34</b>
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<u>Common:</u> 7.2mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.204378, -86.493136	<u>PLSS (T-R-S):</u> 3N-16E-19/30	
<u>Land owner:</u> Royce & Vonnie Wiggins	<u>Parcel No.:</u> 9	
	<u>Road Name:</u> Wiggins Farm Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>34</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	BoB,CdC,DmB,FoA,FuB,MBA,RaA	
<i>Rt Approach Prism Fill:</i>	0.1in	
<i>Lt Approach Prism Fill:</i>	0.1in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US agricultural land use.

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Unnamed tributary	co-0811-r-004	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 5.6mi SW of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Bay Branch <i>GPS:</i> 31.227314, -86.487211	<u>PLSS (T-R-S):</u> 3N-16E-18	
<u>Land owner:</u> Dixon Family Partnership LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Bass Bridge Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: BoB,BoC,CdC,DmB,FoA,MBA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.75in

Notes: Lots of garbage in US channel and DS outlets. 1/2 up RT approach clay pit.

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<h1>Unnamed tributary</h1>	<h2>co-0904-r-004</h2>	<i>Sedimentation Risk Index</i> <b>34</b>
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<u>Common:</u> 6.1mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.237184668, -86.420553065	<u>PLSS (T-R-S):</u> 3N-16E-11	
<u>Land owner:</u> Alice Childree -DS, Rayonier Woodlands LLC -US	<u>Parcel No.:</u> 5; 4	
	<u>Road Name:</u> Head Farm Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>34</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge,1; Culvert, 2	
<i>Crossing Materials:</i>	Reinforced Concrete; PVC	
<i>Soil Types:</i>	CdB,CdC,MBA	
<i>Rt Approach Prism Fill:</i>	0.1in	
<i>Lt Approach Prism Fill:</i>	0.1in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MOD
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 2 culverts draining the pond to the bridge crossing.

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<h1>Unnamed tributary</h1>	<h2>co-0810-r-14a</h2>	<b>Sedimentation Risk Index</b> <h1>38</h1>
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<u>Common:</u> 7.4mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.200686, -86.478814	<u>PLSS (T-R-S):</u> 3N-16E-29	
<u>Land owner:</u> C&G LLC	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Bass Bridge Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Improved Outlet System	<b>5</b>
<b>Ditches Total</b>	Unimproved Drainage System	<b>1</b>
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: BoB,FoA,FuB,IbA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.2in

Notes: Significant difference between US and DS channel conditions. No flow through Lt Culvert.

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<b>Unnamed tributary</b>	<b>co-0810-r-014b</b>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> 7.4mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.200686, -86.480097	<u>PLSS (T-R-S):</u> 3N-16E-29	
<u>Land owner:</u> C&G LLC	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Bass Bridge Rd	

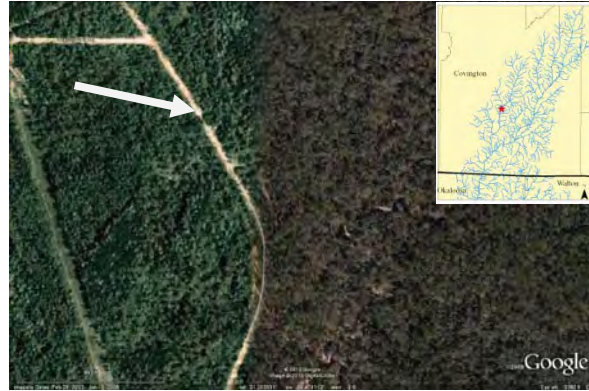


Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / EVERGREEN PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	PVC
<u>Soil Types:</u>	BoB,FoA,FuB,IbA
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.2in

Notes: US channelized ditch.

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Unnamed tributary	co-0904-r-003	Sedimentation Risk Index <b>38</b>
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<u>Common:</u> 5.2mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek GPS: 31.247880453, -86.429983593	<u>PLSS (T-R-S):</u> 3N-16E-10	
<u>Land owner:</u> Dixon Family Partnership LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Head Farm Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: PVC  
Soil Types: BnC,Bob,CdB,CdC,DmB,MBA,OrB  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.05in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fence across US

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<h1>Unnamed tributary</h1>	<h2>co-0810-r-016</h2>	<b>Sedimentation Risk Index</b> <h1>36</h1>
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<u>Common:</u> 7.1mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.205619, -86.500289	<u>PLSS (T-R-S):</u> 3N-15E-24	
<u>Land owner:</u> Royce & Vonnie Wiggins	<u>Parcel No.:</u> 10	
	<u>Road Name:</u> Wiggins Farm Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoB, BoC,DmB,FuB,MBA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.25in

Notes: Fencing across DS

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Unnamed tributary	co-1029-r-006	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 6.1mi NE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.368316317, -86.406643287	<u>PLSS (T-R-S):</u> 5N-16E-25	
<u>Land owner:</u> JS&Abbie Wood	<u>Parcel No.:</u> 9	
	<u>Road Name:</u> Stant Wood Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Rip Rap	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Partially Improved Outlet System	<b>3</b>
<b>Ditches Total</b>	Partially Improved Drainage System	<b>3</b>
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	CdB, CdC, DmB, MBA, OrB
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN INTERIOR UPLAND LONLEAF PINE WOODLAND-LOBLOLLY MODIFIER MEDIUM INTENSITY DEVELOPED, DEVELOPED OPEN SPACE, PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Hydraulic jump into US inlet.

Unnamed tributary	co-0811-r-005	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 6.7mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.210694, -86.485814	<u>PLSS (T-R-S):</u> 3N-16E-19	
<u>Land owner:</u> W&C Maddox -US, S&J Anderson -DS	<u>Parcel No.:</u> 8.01; 5	
	<u>Road Name:</u> Bass Bridge Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	BoB,BoC,CdC,DmB,FoA,MBA
<u>Rt Approach Prism Fill:</u>	0.15in
<u>Lt Approach Prism Fill:</u>	0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MOD
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US wetland visible from aerial.

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<b>Unnamed tributary</b>	<b>co-0901-r-001</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 6.6mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.220477682, -86.437669425	<u>PLSS (T-R-S):</u> 3N-16E-15	
<u>Land owner:</u> Harold Powell - US, Byron & Linda Kilpatrick -DS	<u>Parcel No.:</u> 3.05; 3.06	
	<u>Road Name:</u> Eddie Cannon Rd	



Crossing Structure: Rt Approach



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**  
Crossing Type and Quantity: Ford, 1  
Crossing Materials: Native Soil  
Soil Types: BnC,CdB,CdC,FuB,LyA,MBA  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Some old gravel present in crossing.

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<h1>Unnamed tributary</h1>	<h2>co-0901-r-004</h2>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 8.1mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.195118190, -86.446699986	<u>PLSS (T-R-S):</u> 3N-16E-27	
<u>Land owner:</u> Royce Sightle	<u>Parcel No.:</u> 5.01	
	<u>Road Name:</u> Brasville Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: PVC  
Soil Types: CdC,DmB,MBA  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.05in

Notes: DS outfall drop.

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Unnamed tributary	co-1029-r-009	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 7.2mi NE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.366542969, -86.381605324	<u>PLSS (T-R-S):</u> 5N-17E-30	
<u>Land owner:</u> Minnie Sorrells -US, John & Rosemary Powers--DS	<u>Parcel No.:</u> 20; 2	
	<u>Road Name:</u> George Mims Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Rip Rap	1
<b>Outlet Total</b>	Unimproved Outlet System	1
<b>Ditches Total</b>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 2

Crossing Materials: Metal

Soil Types: CdB, CdC, MBA, OrB, OrC

Rt Approach Prism Fill: 0.15in

Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLUENOSE SHINER
Land Use/Cover	Yes	N/A / SUCCESSIONAL SHRUB/SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<h1>Five Runs Creek</h1>	<h2>co-0810-r-013</h2>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 8.0mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.193375, -86.474669	<u>PLSS (T-R-S):</u> 3N-16E-29	
<u>Land owner:</u> James and Judy Bowman -US, C&G LLC -DS	<u>Parcel No.:</u> 2.01; 1	
	<u>Road Name:</u> Bass Bridge Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Bridge, 1	
<u>Crossing Materials:</u>	Reinforced Concrete	
<u>Soil Types:</u>	BoB,CdC,DmB,EuA,FoA,IbA,MBA,RaA	
<u>Rt Approach Prism Fill:</u>	0.5in	
<u>Lt Approach Prism Fill:</u>	0.1in	



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	N/A / LOW INTENSITY DEVELOPED
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: Some rip rap loading into stream. Public access area. Highly sediment loaded outlets.

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<h1 style="margin:0;">Bay Branch</h1>	<h2 style="margin:0;">co-0811-r-003</h2>	<i>Sedimentation Risk Index</i> <b style="font-size: 1.5em;">44</b>
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<u>Common:</u> 5.5mi S of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.228644, -86.486386	<u>PLSS (T-R-S):</u> 3N-16E-18	
<u>Land owner:</u> Dixon Family Partnership LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Bay Branch Rd	



Crossing Structure:



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Rip Rap	1
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Rip Rap	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	N/A / DEVELOPED OPEN SPACE
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: BoB,BoC,CdC,DmB,FoA,MBA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.15in

Notes: None

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Unnamed tributary	co-0904-r-001	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 4.4mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek GPS: 31.248950899, -86.454617271	<u>PLSS (T-R-S):</u> 3N-16E-4/9	
<u>Land owner:</u> Mary Beesley Tr. -US, Bobby Elmore -DS	<u>Parcel No.:</u> 20; 3	
	<u>Road Name:</u> Hanegan Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	BEAVER DAM	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Wood	
<i>Soil Types:</i>	CdC,DmB,FuB,MBA	
<i>Rt Approach Prism Fill:</i>	0.25in	
<i>Lt Approach Prism Fill:</i>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Multiple beaver dams US

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Unnamed tributary	co-0904-r-002	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 4.8mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.255353548, -86.430402047	<u>PLSS (T-R-S):</u> 3N-16E-3	
<u>Land owner:</u> Dixon Family Partnership LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Head Farm Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: BnB,BoC,CdB,DmB,MBA,OrB  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.15in

Notes: Significant difference between US and DS channel. Note sediment loading from DS Rt outlet pictured.

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Unnamed tributary	co-1029-r-007	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 6.9mi NE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.366635680, -86.389569020	<u>PLSS (T-R-S):</u> 5N-17E-30	
<u>Land owner:</u> Norma Davis & Rexil Larson	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> George Mims Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: CdB, CdC, DmB, MBA, OrB, OrC

Rt Approach Prism Fill: 0.1in

Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLUENOSE SHINER
Land Use/Cover	Yes	N/A /EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<b>Unnamed tributary</b>	<b>co-0901-r-002</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 5.9mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Five Runs Creek <i>GPS:</i> 31.227759483, -86.445759086	<u>PLSS (T-R-S):</u> 3N-16E-15	
<u>Land owner:</u> Harold Powell -US, Robert Bishop -DS	<u>Parcel No.:</u> 3.02; 3	
	<u>Road Name:</u> Eddie Cannon Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: PVC  
Soil Types: CdB,DmB,FuB,LyA,RaA  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Notes: US channelized ditch.

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<b>Unnamed tributary</b>	<b>co-0901-r-005</b>	<i>Sedimentation Risk Index</i> <b>48</b>
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<i>Common:</i> 8.3mi S of Andalusia	<i>County:</i> Covington	<i>State:</i> Alabama
<i>Drainage:</i> Five Runs Creek <i>GPS:</i> 31.190552742, -86.452761413	<i>PLSS (T-R-S):</i> 3N-16E-28	
<i>Land owner:</i> Janice Elmore-US, H&F Elmore, -DS	<i>Parcel No.:</i> 20; 3.01	
	<i>Road Name:</i> Elnor Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>48</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ MEDIUM INTENSITY DEVELOPED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
*Crossing Type and Quantity:* Culvert, 1  
*Crossing Materials:* Metal  
*Soil Types:* CdC,DmB,MBA  
*Rt Approach Prism Fill:* 0.1in  
*Lt Approach Prism Fill:* 0.05in

Notes: Short approach lengths. Close proximity to HWY 55.

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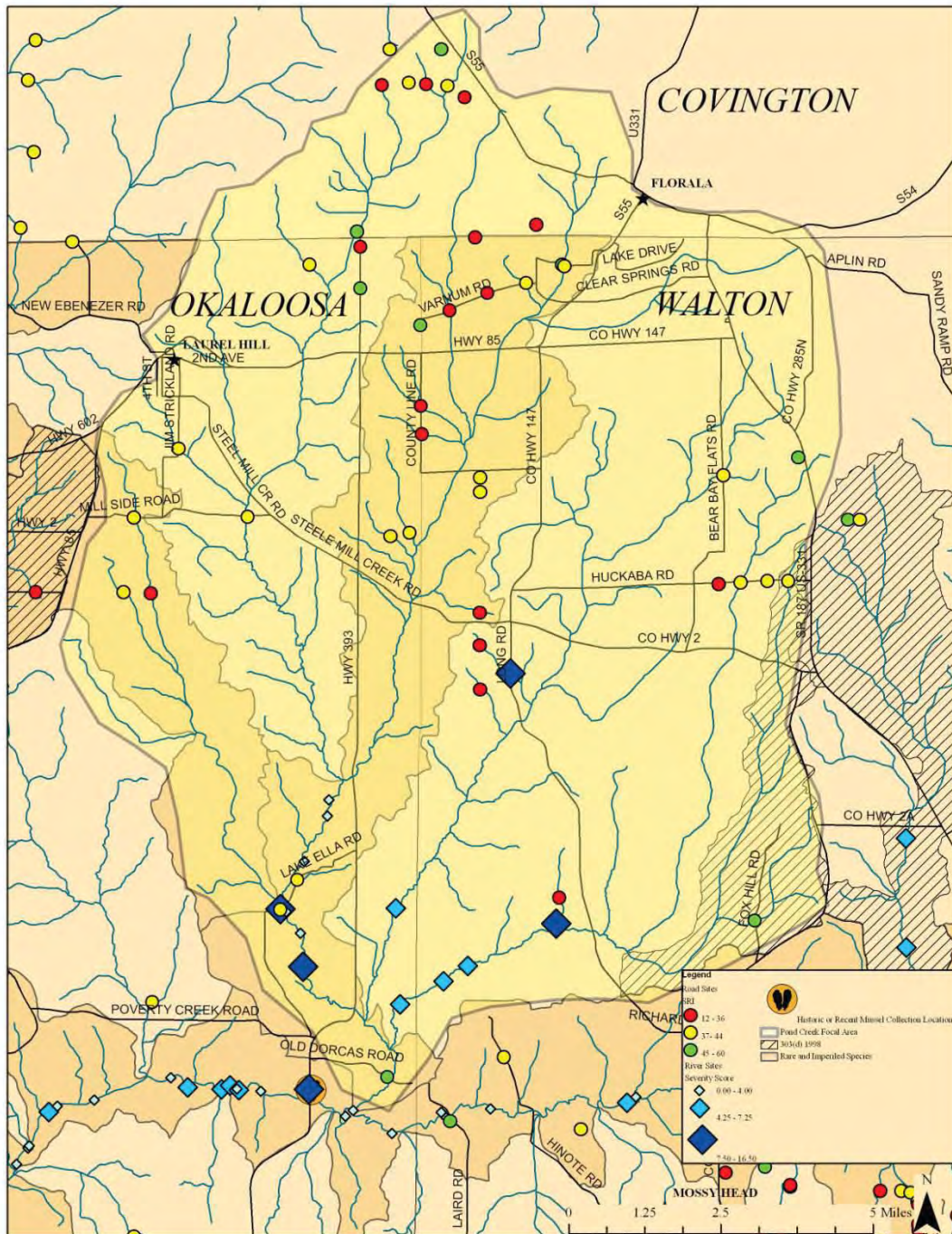


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Appendix F. Pond Creek Watershed Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).





Unnamed tributary	wa-1007-001	Severity Score <b>12</b>
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Common: 13.8mi NE of Crestview, .6mi DS from Long Rd      County: Walton      State: Florida  
Drainage: Long Creek      GPS: 30.830327056, -86.35221467      PLSS(T-R-S): 4N-21W-21  
Land owner: Parke Lexington II- Gainsville Ltd      Parcel No.: 1



**Pond overflow channel going into Long Creek (tree line)- DS**

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	<b>303(d)</b>	No	N/A
<i>Channel Alteration</i>	In Recovery	1.5	<b>Wetland Species</b>	No	N/A
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	No	N/A
<i>BEHI</i>	High	1	<b>Land Use/ Cover</b>	Yes	AGRICULTURAL/ RURAL LAND IN TRANSITION WITHOUT POSITIVE INDICATORS OF INTENDED ACTIVITY
<i>Local NPSP</i>	Obvious Sources	1.5	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Present	1.5	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> None		
<i>Fish Passage Barrier</i>	Present	1.5	<i>Impoundments:</i> Manmade (Large Pond)		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	None	0.75			
<b>River Threat Index:</b>		<b>12</b>			

Notes: The overflow channel is lacking a riparian buffer leading to excessive runoff during flood events. Some shoring structure has been used, but, ineffectively. Obvious aggradations are found downstream from this site.

<b>Pond Creek</b>	<b>ok-0928-001</b>	<i>Severity Score</i> <b>9.5</b>
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*Common:* 9.8mi NE of Crestview  
*Drainage:* Shoal River      *GPS:* 30.833902405, -86.42818011  
*Land owner:* Odessa Jackson

*County:* Okaloosa      *State:* Florida  
*PLSS(T-R-S):* 4N-22W-22  
*Parcel No.:* 1





Lake Ella Rd bridge crossing- US





Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	Historic	0.5	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	IRONCOLOR SHINER SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Present	1.5	<i>Impoundments:</i> Manmade (Wooden Bridge)		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>9.5</b>			



Notes: Collapsed bridge causes a possible fish passage barrier and collects trash. Bridge blow out is likely due to high velocity flows during storm events from the widening and straightening of Pond Creek after it's confluence with Juniper Creek 0.10 miles upstream.

Pond Creek		ok-0928-004		Severity Score <b>9</b>	
<i>Common:</i> 9.7mi NE from Crestview, 1.10mi DS Juniper Creek		<i>County:</i> Okaloosa		<i>State:</i> Florida	
<i>Drainage:</i> Shoal River		<i>GPS:</i> 30.820158372, -86.422168029		<i>PLSS(T-R-S):</i> 4N-22W-26	
<i>Land owner:</i> Robert & Celia Bannerman		<i>Parcel No.:</i> 5			
					
LB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	In Recovery	1	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	SPECKLED CHUB IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>. Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Gabion		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>9</b>			

Notes: Shoring structure on right bank covers about 10% of site and is composed of rip rap and gabion Beer cans and primitive campsite indicate private use and access from local residents. Old power line crossing intersects this site. Sediment/sand loading into stream.

Unnamed tributary		wa-1105-004	Severity Score 7.5																					
<u>Common:</u> 7.6mi SE of Laurel Hill, Long Rd bridge crossing		<u>County:</u> Walton	<u>State:</u> Florida																					
<u>Drainage:</u> Pine Log Creek	<u>GPS:</u> 30.890084885, -86.364442063	<u>PLSS(T-R-S):</u> 5N-21W-32																						
<u>Land owner:</u> Ronald Hurst- DS/ Jasper Dickenson, US		<u>Parcel No.:</u> 5.001/ 4.001																						
																								
DS																								
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>Yes</td> <td>1-3 FOCAL SPECIES IN WETLAND AREAS</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>AGRICULTURAL/ WETLAND FORESTED MIX</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A
Feature	Within Range	Descriptive Field																						
303(d)	No	N/A																						
Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS																						
Rare and Imperiled	No	N/A																						
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX																						
Candidate Mussels	No	N/A																						
Sturgeon C.H.	No	N/A																						
<i>Channel Stability</i>	Excellent	0																						
<i>Channel Alteration</i>	In Recovery	1																						
<i>Bank Erosion</i>	None	0																						
<i>BEHI</i>	Non Eroding	0																						
<i>Local NPSP</i>	Moderate Potential	1																						
<i>Shoring Structures</i>	Present	1.5																						
<i>Pipe Discharge</i>	Not Present	0																						
<i>Water Odors</i>	Present	1.5																						
<i>Fish Passage Barrier</i>	Present	1.5																						
<i>RB: Riparian Buffer</i>	50-99 ft	0.5																						
<i>LB: Riparian Buffer</i>	50-99 ft	0.5																						
<i>RB: Floodplain Access</i>	None	0																						
<i>LB: Floodplain Access</i>	None	0																						
<b>River Threat Index:</b>		<b>7.5</b>	<b>Additional Site Features</b> <i>Stream Channel Woody Material:</i> Infrequent <i>Impoundments:</i> Rip Rap <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Sand																					

Notes: Rip rap and box culvert outfall drop blocking flow and fish passage. Sediment islands DS. Channel wide and shallow, as opposed to US narrow.

Long Creek		wa-1007-003	Severity Score 7
<u>Common:</u> 13mi S of Florida		<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek	<u>GPS:</u> 30.816668947, -86.383371139	<u>PLSS(T-R-S):</u> 4N-21W-30	
<u>Land owner:</u> LB: John & Leah Smith / RB: David & Toni Mayo		<u>Parcel No.:</u> 1.041 / 1	
			
LB			
Risk Factor	Ranking	Score	Feature Within Range Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d) No N/A
<i>Channel Alteration</i>	In Recovery	1	Wetland Species Yes 1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled No N/A
<i>BEHI</i>	Historic	0.5	Land Use/Cover Yes VACANT RESIDENTIAL/ WETLAND FORESTED MIX
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels No N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H. No N/A
<i>Pipe Discharge</i>	Not Present	0	
<i>Water Odors</i>	Not Present	0	
<i>Fish Passage Barrier</i>	Not Present	0	
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	
<i>RB: Floodplain Access</i>	Full	0	
<i>LB: Floodplain Access</i>	Full	0	
<b>River Threat Index:</b>			<b>7</b>
<b>Additional Site Features</b>			
<i>Stream Channel Woody Material:</i>			Infrequent
<i>Impoundments:</i>			None
<i>Substrate Composition:</i>			Medium Sand
<i>Bank Material:</i>			Sand and Clay

Notes: Site located on private rd- Hickory Tree Ln. Note nearby impoundment in aerial.  
Private bridge and power line crossing. Sediment load coming from power line crossing  
and large culverts under road before bridge crossing.

<b>Pine Log Creek</b>	<b>ok-1106-001</b>	<i>Severity Score</i> <b>7</b>
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*Common:* 11.5mi NE of Crestview, 0.17mi S Lumber Ridge Rd      *County:* Okaloosa      *State:* Florida  
*Drainage:* Shoal River      *GPS:* 30.834270512, -86.395643623      *PLSS(T-R-S):* 4N-22W-24  
*Land owner:* Parke Lexington II- Gainesville LTD      *Parcel No.:* 2.001A



RB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	<b>303(d)</b>	No	N/A
<i>Channel Alteration</i>	In Recovery	1	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Not Eroding	0	<b>Rare and Imperiled</b>	No	N/A
<i>BEHI</i>	High	1	<b>Land Use/ Cover</b>	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Present	1.5	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> Manmade- Collapsed Bridge		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>7</b>			

Notes: Borrow pit/ logging operation runoff entering Pine Log Creek.

Historical photos show extensive clear cutting and development of borrow pits.

DS shows change to point bar development.

<b>Long Creek</b>	<b>wa-1007-002</b>	<i>Severity Score</i> <b>5</b>
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Common: 12mi NE of Crestview      County: Walton      State: Florida  
Drainage: Pond Creek      GPS: 30.820168208, -86.376672959      PLSS(T-R-S): 4N-21W-30  
Land owner: Alan & Deena Bryant      Parcel No.: 1.013



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	Historic, Mostly Recovered	0.5	Wetland Species	No	N/A
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	RESIDENTIAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.25	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.25	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>5</b>			

Notes: House 50 yards off right bank and road crossing.

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<b>Long Creek</b>	<b>ok-1007-004</b>	<b>Severity Score</b> <b>4.5</b>
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Common: 4.7mi N of Mossy Head      County: Okaloosa      State: Florida  
Drainage: Pond Creek      GPS: 30.811168453, -86.395416242      PLSS(T-R-S): 4N-22W-24  
Land owner: Cecil Anchors Sr.      Parcel No.: 2.002



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	Historic, Mostly Recovered	0.5	Wetland Species	No	N/A
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	50-99 ft	0.25	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.5</b>			

Notes: Logging road.

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Pond Creek	ok-0922-003	Severity Score 3.75
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Common: 10.1mi NE of Crestview      County: Okaloosa      State: Florida  
Drainage: Shoal River      GPS: 30.845509026, -86.421623762      PLSS(T-R-S): 4N-22W-14  
Land owner: Schweizer Family Inc      Parcel No.: 9



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not Eroding	0	<b>Rare and Imperiled</b>	Yes	IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Low-Very Low	0	<b>Land Use/ Cover</b>	Yes	VACANT RESIDENTIAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Present	1.5	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.25	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>3.75</b>			

Notes: Private residence. Pond Creek Rd 250 ft off Lt Bank

<b>Pond Creek</b>	<b>ok-0922-002</b>	<i>Severity Score</i> <b>3</b>
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Common: 8.2mi SE of Laurel Hill      County: Okaloosa      State: Florida  
Drainage: Shoal River      GPS: 30.856246619, -86.415180276      PLSS(T-R-S): 4N-22W-11  
Land owner: Randall & Sheila Bates      Parcel No.: 1.006



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	<b>303(d)</b>	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	No	N/A
<i>Bank Erosion</i>	Historic	0.5	<b>Rare and Imperiled</b>	Yes	IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	ACREAGE NOT ZONED FOR AGRICULTURE/WETLAND FORESTED MIX
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<b>RB: Riparian Buffer</b>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<b>LB: Riparian Buffer</b>	100+ ft	0	<i>Bank Material:</i> Sand		
<b>RB: Floodplain Access</b>	None	0.75			
<b>LB: Floodplain Access</b>	Full	0			
<b>River Threat Index:</b>		<b>3</b>			

Notes: None

Pond Creek	ok-0922-001	Severity Score 3
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Common: 7.8mi SE of Laurel Hill      County: Okaloosa      State: Florida  
Drainage: Shoal River      GPS: 30.860098559, -86.414757161      PLSS(T-R-S): 4N-22W-11  
Land owner: Daniel & Angela Raybon      Parcel No.: 1.002



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	Yes	IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	RESIDENTIAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Slight	0.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Present	1.5	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>3</b>			

Notes: Anaerobic water odors. Private road access site or old logging road?

Pond Creek	ok-0928-002	Severity Score 2.75
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Common: 9.9mi NE of Crestview      County: Okaloosa      State: Florida  
Drainage: Shoal River      GPS: 30.83335592, -86.426809628      PLSS: 4N-22W-22  
Land owner: Odessa Jackson      Parcel No.: 1



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	Yes	IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.75</b>			

Notes: RT bank target practice for residence/camp on LB

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<b>Pond Creek</b>	<b>ok-0928-003</b>	<i>Severity Score</i> <b>1.75</b>
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*Common:* 9.9mi SE of Crestview      *County:* Okaloosa      *State:* Florida  
*Drainage:* Shoal River      *GPS:* 30.828322813, -86.422834915      *PLSS:* 4N-22W-23  
*Land owner:* RB: Tonya Roberts & Bernard Harris / LB: Curtis Johnson      *Parcel No.:* 1.0503/1.069



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	Yes	IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A / WETLAND FORESTED MIX, STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: Aggradational Site: Large, fresh deposits common. Significant change since the confluence with Juniper Creek, there were very few point bars above the confluence.

Unnamed tributary	wa-0617-r-004	Sedimentation Risk Index <b>24</b>
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<u>Common:</u> 4.3mi SE of Laurel Hill	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.947250, -86.388542	<u>PLSS(T-R-S):</u> 5N-21-07; 5N-22-12	
<u>Land owner:</u> Rayonier Timberlands Inc-DS, Danny Riley-US	<u>Parcel No.:</u> 2; 3.008	
	<u>Road Name:</u> County Line Rd.	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>24</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: 2,3,10,11,15,20  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 0.5in

Notes: Left culvert blocked

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<h1>Unnamed tributary</h1>	<h2>wa-0625-r-002</h2>	<i>Sedimentation Risk Index</i> <b>24</b>
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<u>Common:</u> 3mi SW of Florida	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek	<u>PLSS(T-R-S):</u> 6N-21-32	
<u>Land owner:</u> Robert Grier	<u>Parcel No.:</u> 4.001	
	<u>Road Name:</u> Varnum Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>24</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	13,14,15,22,23,60,61
<u>Rt Approach Prism Fill:</u>	1.0in
<u>Lt Approach Prism Fill:</u>	0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Pond drainage with buried culvert

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<h1>Unnamed tributary</h1>	<h2>wa-0706-r-003</h2>	<b>Sedimentation Risk Index</b> <h1>24</h1>
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<u>Common:</u> 7.9mi SW of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pine Log Creek <u>GPS:</u> 30.896728, -86.372864	<u>PLSS(T-R-S):</u> 5N-21-29/30	
<u>Land owner:</u> Shiela Hoke- DS, Boncile Lowery- US	<u>Parcel No.:</u> 7; 6	
	<u>Road Name:</u> Allen Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<b>Outlet Total</b>	Unimproved Outlet System	1
<b>Ditches Total</b>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>High Risk</b>	<b>24</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C H	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 10,11,13,14,15,23,29  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 2.0in

Notes: None



<h1>Horsehead Creek</h1>	<h2>co-0731-r-008</h2>	<i>Sedimentation Risk Index</i> <b>28</b>
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<u>Common:</u> 3.2mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Pond Creek <u>GPS:</u> 31.027514, -86.376183	<u>PLSS (T-R-S):</u> 1N-17E-29	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> Union Church Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>28</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Culvert, 2	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	CdB,CdC,DmB,MBA	
<u>Rt Approach Prism Fill:</u>	3.0in	
<u>Lt Approach Prism Fill:</u>	1.5in	



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	No	N/A
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: Misplaced culverts, also evident in aerial photo.

<h1>Unnamed tributary</h1>	<h2>wa-0706-r-001</h2>	<b>Sedimentation Risk Index</b> <h1>28</h1>
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<u>Common:</u> 8.6mi SW of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pine Log Creek <u>GPS:</u> 30.886233, -86.372805	<u>PLSS(T-R-S):</u> 5N-21-31	
<u>Land owner:</u> Carolyn Dixon- US, Unknown-DS	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Allen Rd	



Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	PONDED	1	
<i>DS Channel Morph</i>	PONDED	1	
<i>DS Bank Alteration</i>	HIGH	1	
<i>Upstream Skew Angle</i>	>30°	1	
<i>Crossing fill condition</i>	Fair/Rip Rap	3	
<i>Inlet/Outlet Condition</i>	Blocked	1	
<i>Road Approach Material</i>	All Aggregate	5	
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5	
<i>Approach Slope Mean</i>	2.1-4%	3	
<i>Soil K Factor</i>	<0.20	5	
<i>Upstream Rt Outlet</i>	Concrete	0	
<i>Upstream Lt Outlet</i>	Concrete	0	
<i>Upstream Rt Ditch</i>	Concrete	0	
<i>Upstream Lt Ditch</i>	Concrete	0	
<i>Downstream Rt Outlet</i>	Concrete	0	
<i>Downstream Lt Outlet</i>	Concrete	0	
<i>Downstream Rt Ditch</i>	Concrete	0	
<i>Downstream Lt Ditch</i>	Concrete	0	
<i>Outlet Total</i>	Unimproved Outlet System	1	
<i>Ditches Total</i>	Unimproved Drainage System	1	
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>28</b>	

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	2,10,11,14,13,15,25,26,29,35
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.25in

	<b>Feature</b>	<b>Within Range</b>	<b>Descriptive Field</b>
	303(d)	No	N/A
	Wetland Species	No	N/A
	Rare and Imperiled	No	N/A
	Land Use/Cover	Yes	AGRICULTURAL.PARCELS WITH NO VALUES/ WETLAND FORESTED MIX
	Candidate Mussels	No	N/A
	Sturgeon C.H.	No	N/A



Notes: DS drop off

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Unnamed tributary	wa-0706-r-002	Sedimentation Risk Index <b>30</b>
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<u>Common:</u> 7.3mi SW of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.904591, -86.372801	<u>PLSS(T-R-S):</u> 5N-21-29/30	
<u>Land owner:</u> William Dixon Jr-US, Michael Lowery-DS	<u>Parcel No.:</u> 5; 2.001	
	<u>Road Name:</u> Frost Rd	

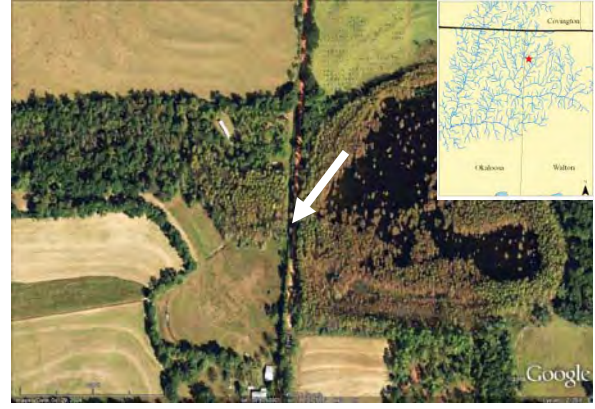


Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	RESIDENTIAL/ HAY FIELDS, CYPRESS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 10,15,22,25,26,39  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 0.5in

Notes: Misplaced culvert.

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<h1>Unnamed tributary</h1>	<h2>co-0731-r-004</h2>	<b>Sedimentation Risk Index</b> <h1>34</h1>
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<u>Common:</u> 4.5mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Horsehead Creek <i>GPS:</i> 31.030550, -86.399066	<u>PLSS (T-R-S):</u> 1N-16E-24/25	
<u>Land owner:</u> James & Judy McGee -US, Diane Mock -DS	<u>Parcel No.:</u> 5; 3.01	
	<u>Road Name:</u> Union Church Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert,2  
Crossing Materials: Metal  
Soil Types: BoC,CdB,DmB,FuB,LuB,MBA  
Rt Approach Prism Fill: 1.00in  
Lt Approach Prism Fill: 2.50in

Notes: High sediment load DS.

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Unnamed tributary	co-0731-r-011	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 1.8mi SW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.997090, -86.356523	<u>PLSS (T-R-S):</u> 6N-21W-29/28	
<u>Land owner:</u> EPC Holdings Rayonier Crenshaw LLC	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> One Bridge Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 2	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	BoC,CdC,DmB,FuB,MBA	
<i>Rt Approach Prism Fill:</i>	0.1in	
<i>Lt Approach Prism Fill:</i>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Vegetated island between culverts DS

<b>Unnamed tributary</b>	<b>co-0731-r-006</b>	<b>Sedimentation Risk Index</b> <b>36</b>
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<u>Common:</u> 3.9mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Horsehead Creek <u>GPS:</u> 30.997012, -86.499121	<u>PLSS (T-R-S):</u> 1N-17E-19/30	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Union Church Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	BoC,CdB,CdC,DmB,FuB,MBA	
<i>Rt Approach Prism Fill:</i>	2.75in	
<i>Lt Approach Prism Fill:</i>	2.0in	



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	N/A/ LOW INTENSITY DEVELOPED
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: Undersized culvert.

<h1>Unnamed tributary</h1>	<h2>ok-0528-r-002</h2>	<i>Sedimentation Risk Index</i> <b>36</b>
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<u>Common:</u> 3.8mi NE of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Horsehead Creek <u>GPS:</u> 30.992017, -86.405206	<u>PLSS(T-R-S):</u> 6N-22-26	
<u>Land owner:</u> Mavin & Edwin Vickers-DS, Dale Riley-US	<u>Parcel No.:</u> 1.001, 3	
	<u>Road Name:</u> Robinson Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 13,36,37,39,40,41,42,43,49,52,55,56  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.75in

Notes: High sedimentation levels from outlets.

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<h1>Juniper Creek</h1>	<h2>ok-0528-r-008</h2>	<i>Sedimentation Risk Index</i> <b>36</b>
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<u>Common:</u> 3.9mi S of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.909656, -86.463711	<u>PLSS(T-R-S):</u> 5N-22-29/20	
<u>Land owner:</u> T.R. Miller Mill Co-DS, Carolyn Tyner Trustee- US	<u>Parcel No.:</u> 1, 2.001	
	<u>Road Name:</u> E Plympton Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 3	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	12,16,36,37,39,40,42,43	
<i>Rt Approach Prism Fill:</i>	1.5in	
<i>Lt Approach Prism Fill:</i>	1.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB
Land Use/Cover	Yes	N/A / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Outlets mix of vegetation and rip rap--beaver dam skewing angle

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<h1>Unnamed tributary</h1>	<h2>wa-0617-r-005</h2>	<i>Sedimentation Risk Index</i> <b>36</b>
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<u>Common:</u> 4.3mi E of Laurel Hill	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <i>GPS:</i> 30.953947, -86.388783	<u>PLSS(T-R-S):</u> 5N-21-06; 5N-22-01	
<u>Land owner:</u> Timothy & Nelda Fleming-DS, Rose in Bloom Inc-US	<u>Parcel No.:</u> 15; 10	
	<u>Road Name:</u> County Line Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Synthetic	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 2,3,10,11,15,20  
Rt Approach Prism Fill: 2.5in  
Lt Approach Prism Fill: 3.0in

Notes: None.

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<h1 style="margin:0;">Fleming Creek</h1>	<h2 style="margin:0;">wa-0625-r-003</h2>	<b>Sedimentation Risk Index</b> <h1 style="margin:0;">36</h1>
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<u>Common:</u> 3.7 SW of Florida	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.976764, -86.380619	<u>PLSS(T-R-S):</u> 6N-21-31	
<u>Land owner:</u> John R Cox-US, Newton Busbee-DS	<u>Parcel No.:</u> 4; 2	
	<u>Road Name:</u> Varnum Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Wood	
<i>Soil Types:</i>	2,3,10,15,22,25,26,31,32,60	
<i>Rt Approach Prism Fill:</i>	1.0in	
<i>Lt Approach Prism Fill:</i>	1.0in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	VACANT RESIDENTIAL, AGRICULTURAL/ MIXED WETLAND HARDWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Need to stabilize prism fill on approaches.

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Unnamed tributary	wa-0625-r-006	Sedimentation Risk Index <b>28</b>
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<u>Common:</u> 2.8mi SW of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Fleming Creek <u>GPS:</u> 30.994142, -86.373522	<u>PLSS(T-R-S):</u> 6N-21-20/29	
<u>Land owner:</u> James & Barbara Craig- DS, S.G. & Betty Hargrove Sr.-US	<u>Parcel No.:</u> 1; 2	
	<u>Road Name:</u> Franklin Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
US Channel Morph	PONDED	1
DS Channel Morph	PONDED	1
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	>30°	1
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	Blocked	1
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	21-40 y <sup>3</sup>	3
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Improved Outlet System	5
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>28</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 2,3,10,11,13,14,15  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Draining agricultural pond US

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Unnamed tributary	wa-1005-r-005	Sedimentation Risk Index <b>36</b>
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<u>Common:</u> 6.9mi N of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Long Creek <u>GPS:</u> 30.836530868, -86.351276376	<u>PLSS (T-R-S):</u> 4N-21-16-38000	
<u>Land owner:</u> Dreamland Investments & LLC-US, Parke Lexington II of Gainesville LTD- DS	<u>Parcel No.:</u> 2.0010; 1	
	<u>Road Name:</u> Long Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>36</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL,PARCELS / MIXED SCRUB-SHRUB WETLAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: 2,15,17,31,32,33  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.5in

Notes: 2<sup>nd</sup> culvert is concrete and placed well above the water level.

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<h1>Juniper Creek</h1>	<h2>ok-0528-r-006</h2>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> 2.7mi SW of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <span style="float:right"><u>GPS:</u> 30.927733, -86.468278</span>	<u>PLSS(T-R-S):</u> 5N-22-17	
<u>Land owner:</u> Mary & Michael Joseph- US, Annette & Thomas	<u>Parcel No.:</u> 5, 3.001	
Malaszweski-DS	<u>Road Name:</u> Millside Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert,2
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	37,38,39,40,43
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB
Land Use/Cover	Yes	AGRICULTURAL/ CONIFEROUS PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Newly reconstructed crossing. DS drop off.

Unnamed tributary	wa-0626-r-005	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 6.6mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Long Creek <u>GPS:</u> 30.911070, -86.306770	<u>PLSS(T-R-S):</u> 5N-21-23/26	
<u>Land owner:</u> Ricky & Jacqueline Adams- US, Joe & Cheryl Gillam-DS	<u>Parcel No.:</u> 4.001; 1.001; 1	
East, Thomas & Doris Bell- DS West	<u>Road Name:</u> Campground Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ UPLAND CONIFEROUS FORESTS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: 13,15,22,40,31,32,60,69  
Rt Approach Prism Fill: 0.35in  
Lt Approach Prism Fill: 0.25in

Notes: Second culvert 50 ft west of first, blocked

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<b>Unnamed tributary</b>	<b>ok-0617-r-007</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 4.7mi SE of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek	<u>PLSS(T-R-S):</u> 5N-22-24	
<u>Land owner:</u> Sonya Webb	<u>Parcel No.:</u> 2.005	
<u>GPS:</u> 30.922968, -86.397368	<u>Road Name:</u> County Line Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: 36,37,41,43,46  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	wa-0617-r-003	Sedimentation Risk Index <b>38</b>
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<u>Common:</u> 5.4mi SW of Florida	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.936847, -86.372483	<u>PLSS(T-R-S):</u> 5N-21-17/18	
<u>Land owner:</u> Jody Jones-US, Edward & Magdaline Reed- DS	<u>Parcel No.:</u> 1.0021; 1	
	<u>Road Name:</u> Frost Ln.	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
US Channel Morph	PONDED	1
DS Channel Morph	PONDED	1
DS Bank Alteration	HIGH	1
Upstream Skew Angle	5-30°	3
Crossing fill condition	Fair/Rip Rap	3
Inlet/Outlet Condition	No Impairment	5
Road Approach Material	All Aggregate	5
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Rip Rap	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Bare soil	0
Downstream Rt Ditch	Rip Rap	1
Downstream Lt Ditch	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: 15,31,32

Rt Approach Prism Fill: 0.05in

Lt Approach Prism Fill: 0.05in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across DS

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<h1>Long Creek</h1>	<h2>wa-0626-r-004</h2>	<b>Sedimentation Risk Index</b> <h1>40</h1>
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<u>Common:</u> 6.8mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.911463, -86.300719	<u>PLSS(T-R-S):</u> 5N-21-24/25	
<u>Land owner:</u> Wayne & Joanna Campbell- US, Sharron Adrian- DS	<u>Parcel No.:</u> 2; 2.001	
	<u>Road Name:</u> Campground Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Reinforced Concrete	
<i>Soil Types:</i>	13,15,22,40,31,32,60,69	
<i>Rt Approach Prism Fill:</i>	0.25in	
<i>Lt Approach Prism Fill:</i>	0.75in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ BAY SWAMPS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Water not flowing.

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Unnamed tributary	co-0731-r-005	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 4.1mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Horsehead Creek <u>GPS:</u> 31.031038, -86.391598	<u>PLSS (T-R-S):</u> 1N-17E-19/30	
<u>Land owner:</u> Carol Coon -US, Rayonier Forest Resources LP-DS	<u>Parcel No.:</u> 5.02; 1	
	<u>Road Name:</u> Union Church Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	HIGH	1
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Sed Islands/Scouring	3
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	>40 y <sup>3</sup>	1
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Improved Outlet System	5
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoC,CdB,CdC,DmB,FuB,MBA
<u>Rt Approach Prism Fill:</u>	2.0in
<u>Lt Approach Prism Fill:</u>	2.5in

Notes: High sediment load from DS outlet.

Unnamed tributary	ok-0617-r-006	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 5mi SE of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <i>GPS:</i> 30.923731, -86.391997	<u>PLSS(T-R-S):</u> 5N-22-13/24	
<u>Land owner:</u> Ema Massoni- US/Rayonier Forest Resource LP-DS	<u>Parcel No.:</u> 7; 1	
	<u>Road Name:</u> County Line Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Synthetic	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 3
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	4,34,36,43,51
<u>Rt Approach Prism Fill:</u>	2.0in
<u>Lt Approach Prism Fill:</u>	1.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Adjacent to farm land.

<h1>East Branch</h1>	<h2>wa-0626-r-001</h2>	<i>Sedimentation Risk Index</i> <h1>46</h1>
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<u>Common:</u> 4.8mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pine Log Creek <u>GPS:</u> 30.937011, -86.305311	<u>PLSS(T-R-S):</u> 5N-21-13/14	
<u>Land owner:</u> Joseph Mary Jo Smith et al- US, Big Sky Inc-DS	<u>Parcel No.:</u> 2; 1	
	<u>Road Name:</u> Bear Bay Road	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>42</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 3	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	13,14,15,20,31,35,69	
<i>Rt Approach Prism Fill:</i>	0.25in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ WETLAND FORESTED MIX, CONIFEROUS PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<b>Unnamed tributary</b>	<b>wa-0626-r-003</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 6.8mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Little Creek	<u>GPS:</u> 30.911756, -86.293225	<u>PLSS(T-R-S):</u> 5N-21-24/25
<u>Land owner:</u> John Tucker Jr- US, Mary Prater McLean-DS	<u>Parcel No.:</u> 8; 1	<u>Road Name:</u> Campground Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL,PARCELS WITH NO VALUES/MIXED WETLAND HARDWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: 13,15,22,40,31,32,60  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.5in

Notes: None

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<b>Unnamed tributary</b>	<b>wa-0706-r-004</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 5.6mi SE of Laurel Hill	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.933325, -86.372564	<u>PLSS(T-R-S):</u> 5N-21-17/18	
<u>Land owner:</u> Jody Jones-US, Jerry & Kimberly Mulcahy-DS	<u>Parcel No.:</u> 1.0021, 3.002	
	<u>Road Name:</u> Frost Ln	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	D	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	15,31,32
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ IMPROVED PASTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS outfall drop

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Unnamed tributary	co-0731-r-007	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 3.6mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Horsehead Creek <u>GPS:</u> 30.993519, -86.484894	<u>PLSS (T-R-S):</u> 1N-17E-30	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Union Church Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: CdB,CdC,DmB,MBA  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 3.0in

Notes: None.

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Unnamed tributary	ok-0528-r-001	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 2.8mi NE of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Horsehead Creek <u>GPS:</u> 30.987811, -86.419311	<u>PLSS(T-R-S):</u> 6N-22-26	
<u>Land owner:</u> S.A. & S.S. Johnson Living Trust	<u>Parcel No.:</u> 7	
	<u>Road Name:</u> Ludlam Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
US Channel Morph	WETLAND	5
DS Channel Morph	DA	3
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	No Impairment	5
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	>40 y <sup>3</sup>	1
Approach Slope Mean	>4%	1
Soil K Factor	<0.20	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Bare soil	0
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Improved Drainage System	5
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ FRESHWATER MARSHES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 39,40,41,42,44,43,46,49  
Rt Approach Prism Fill: 1.5in  
Lt Approach Prism Fill: 2.0in

Notes: None

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<h1>Horsehead Creek</h1>	<h2>ok-0528-r-004</h2>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 2.9mi SE of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.927819, -86.436811	<u>PLSS(T-R-S):</u> 5N-22-15	
<u>Land owner:</u> Robert Babcock	<u>Parcel No.:</u> 9	
	<u>Road Name:</u> Millside Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Concrete	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Concrete	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 4,13,16,23,36,40,41,45,44,45,46,49,50  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 1.0in

Notes: Appears to be sediment loading from US? Source unknown

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<h1 style="margin:0;">Green Branch</h1>	<h2 style="margin:0;">ok-0528-r-005</h2>	<i>Sedimentation Risk Index</i> <b style="font-size: 1.5em;">44</b>
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<u>Common:</u> 1.5mi S of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Horsehead Creek <u>GPS:</u> 30.944075, -86.455881	<u>PLSS(T-R-S):</u> 5N-22-08/9	
<u>Land owner:</u> Millicent Noel- US, Helen & Shelley Reeves-DS	<u>Parcel No.:</u> 3, 7	
	<u>Road Name:</u> Buck Tyner Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert,2  
Crossing Materials: Metal  
Soil Types: 23,35,36,43,44,47,49,52  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.5in

Notes: Culverts placed at a bad angle to flow.

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# Hogpen Branch

ok-0528-r-007

Sedimentation Risk Index  
**44**

Common: 3.9mi S of Laurel Hill  
Drainage: Juniper Creek *GPS:* 30.909953, -86.471256  
Land owner: Mack Tyner Jr Trustee- US, T.R. Miller Mill Co- DS

County: Okaloosa  
PLSS(T-R-S): 5N-22-20/22  
Parcel No.: 5,1  
Road Name: E. Plympton Rd

State: Florida



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Synthetic	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB
Land Use/Cover	Yes	AGRICULTURAL/ CYPRESS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: 12,16,36,37,39,40,42,43  
Rt Approach Prism Fill: 1.5in  
Lt Approach Prism Fill: 1.0in

Notes: None

<b>Pond Creek</b>	<b>ok-0710-r-003</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 9.9mi NE of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.834014, -86.428345	<u>PLSS(T-R-S):</u> 4N-22-22	
<u>Land owner:</u> Odessa Jackson	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Lake Ella Rd	



Crossing Structure- Rt Approach



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Bridge, 1	
<u>Crossing Materials:</u>	Wood	
<u>Soil Types:</u>	34,36,43,50	
<u>Rt Approach Prism Fill:</u>	2.0in	
<u>Lt Approach Prism Fill:</u>	1.0in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND HARDWOOD FORESTS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Bridge blew out in March 2009 rainstorm; has not been repaired. 0.1 mi DS from Juniper Creek

<b>Spring Branch</b>	<b>ok-0710-r-004</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 10.4mi NE of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.841094, -86.423568	<u>PLSS(T-R-S):</u> 4N-22-22	
<u>Land owner:</u> Schweizer Family Inc	<u>Parcel No.:</u> 9	
	<u>Road Name:</u> Lake Ella Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	12,36,43,49,50	
<i>Rt Approach Prism Fill:</i>	1.0in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	VACANT RESIDENTIAL/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Lots of sediment loading. Outfall drop blocking fish passage

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<b>Unnamed tributary</b>	<b>wa-0625-r-001</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 2.4mi SW of Florida	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.983133, -86.359481	<u>PLSS(T-R-S):</u> 6N-21-29/32	
<u>Land owner:</u> Thomas Kilpatrick-US, Walton Properties LLP-DS	<u>Parcel No.:</u> 5; 4.003	
	<u>Road Name:</u> Varnum Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Wood	
<i>Soil Types:</i>	13,14,15,22,23,60,61	
<i>Rt Approach Prism Fill:</i>	0.25in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	VACANT RESIDENTIAL, AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across DS channel causing sediment buildup

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Pond Creek	wa-0625-r-005a	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 1.7mi SW of Florida	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River	<u>PLSS(T-R-S):</u> 6N-21-28	
<u>Land owner:</u> Neal Hart- US, Thalon & Peggy Hobbs-DS	<u>Parcel No.:</u> 18; 18.002	
	<u>Road Name:</u> Double Bridge Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	VACANT RESIDENTIAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	15,31,32
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.05in

Notes: Two bridges crossing this same system.

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Little Creek	wa-0626-r-002	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 6.8mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Long Creek <u>GPS:</u> 30.911752, -86.287466	<u>PLSS(T-R-S):</u> 5N-20-19/30	
<u>Land owner:</u> Ronald & Joan Earley-US, Mary Prater McLean-DS	<u>Parcel No.:</u> 6.001, 5	
	<u>Road Name:</u> Campground Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ HAY FIELDS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	6,29,40,60
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	0.5in

Notes: Dry at time of survey. 2 culverts of different diameter

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Unnamed tributary	co-0731-r-009	Sedimentation Risk Index <b>46</b>
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<u>Common:</u> 4.1mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Horsehead Creek <u>GPS:</u> 31.039039, -86.382572	<u>PLSS (T-R-S):</u> 1N-17E-19	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Chance Rd	

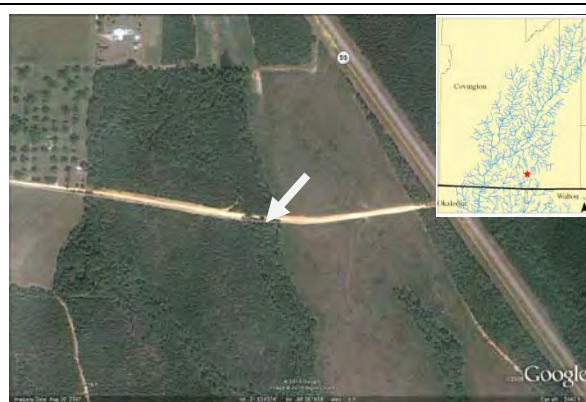


Crossing Structure: DS



US

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	No Impairment	5
Road Approach Material	All Native Soil	1
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Improved Outlet System	5
Ditches Total	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Culvert, 1	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	CdC,DmB,MBA,OrB	
<u>Rt Approach Prism Fill:</u>	0.25in	
<u>Lt Approach Prism Fill:</u>	0.2in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLOLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap in stream bed.

<h1>Horsehead Creek</h1>	<h2>co-0731-r-012</h2>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 4.7mi SW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Pond Creek <u>GPS:</u> 30.995696, -86.406183	<u>PLSS (T-R-S):</u> 6N-22W-26	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Davis Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Synthetic	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: BoC,DmB,EuA,FuB,MBA,TrD  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.1in

Notes: None

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Unnamed tributary	wa-0625-r-004	Sedimentation Risk Index <b>46</b>
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<u>Common:</u> 4.2mi NE of Laurel Hill	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Flemming Creek <i>GPS:</i> 30.973206, -86.388775	<u>PLSS (T-R-S):</u> 6N-22-36; 6N-21-31	
<u>Land owner:</u> Ellen Gordon-US, Clarke Williams-DS	<u>Parcel No.:</u> 4; 10	
	<u>Road Name:</u> County Line Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5o	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y3	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	RESIDENTIAL/ CYPRESS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 3  
Crossing Materials: Metal  
Soil Types: 3,11,15,31,32  
Rt Approach Prism Fill: 0.75in  
Lt Approach Prism Fill: 1.0in

Notes: None

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Unnamed tributary	wa-0626-r-006	Sedimentation Risk Index <b>46</b>
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<u>Common:</u> 5.1mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Long Creek <u>GPS:</u> 30.941142, -86.284550	<u>PLSS(T-R-S):</u> 5N-20-07/18	
<u>Land owner:</u> Carla Bent-US, Adrian Geoghagan-DS	<u>Parcel No.:</u> 2.5, 4	
	<u>Road Name:</u> Jackson Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	13,20,60
<u>Rt Approach Prism Fill:</u>	0.2in
<u>Lt Approach Prism Fill:</u>	0.2in

Notes: Lt approach partially paved. Sanded over.

<h1>Big Branch</h1>	<h2>wa-0722-r-001</h2>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 6.3mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Little Creek <u>GPS:</u> 30.830729, -86.297392	<u>PLSS(T-R-S):</u> Unknown	
<u>Land owner:</u> Unknown	<u>Parcel No.:</u> Unknown	
	<u>Road Name:</u> Foxhill Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL PARCELS WITH NO VALUES/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: 2,3,13,15,17,18,31,32

Rt Approach Prism Fill: 0.1in

Lt Approach Prism Fill: 0.3in

Notes: None

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Unnamed tributary	ok-0528-r-003	Sedimentation Risk Index <b>48</b>
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<u>Common:</u> 3.4mi NE of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Horsehead Creek GPS: 30.982058, -86.405300	<u>PLSS(T-R-S):</u> 6N-22-25	
<u>Land owner:</u> Helen & Robert Pagnini- US, Catherine & Cory Harned- US	<u>Parcel No.:</u> 1.002, 5	
	<u>Road Name:</u> Robinson Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A / FRESHWATER MARSHES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 13,36,37,39,40,41,42,43,49,52,55,56  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.5in

Notes: Outfall drop over beaver dam.

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<b>Pond Creek</b>	<b>wa-0625-r-005b</b>	<i>Sedimentation Risk Index</i> <b>48</b>
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<u>Common:</u> 1.7mi SW of Florida	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <i>GPS:</i> 30.987514, -86.349492	<u>PLSS(T-R-S):</u> 6N-21-28	
<u>Land owner:</u> Neat Hart-US, Thalon & Peggy Hobbs- DS	<u>Parcel No.:</u> 18; 18.002	
	<u>Road Name:</u> Double Bridge Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Wood	
<i>Soil Types:</i>	15,31,32	
<i>Rt Approach Prism Fill:</i>	0.1in	
<i>Lt Approach Prism Fill:</i>	0.05in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	VACANT RESIDENTIAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Public access DS?

<h1>Pond Creek</h1>	<h2>ok-0710-r-002</h2>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 6.1mi NW of Mossy Head	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.793986, -86.399002	<u>PLSS(T-R-S):</u> 4N-22-36	
<u>Land owner:</u> Rick & Susan Goff	<u>Parcel No.:</u> 3.001	
	<u>Road Name:</u> Pond Creek Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>50</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Wood	
<i>Soil Types:</i>	23,43,50,51	
<i>Rt Approach Prism Fill:</i>	0.25in	
<i>Lt Approach Prism Fill:</i>	0.15in	



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	Yes	SPECKLED CHUB, IRONCOLOR SHINER
<b>Land Use/Cover</b>	Yes	AGRICULTURAL/ WETLAND HARDWOOD FORESTS
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: Small foot path DS Lt floodplain.

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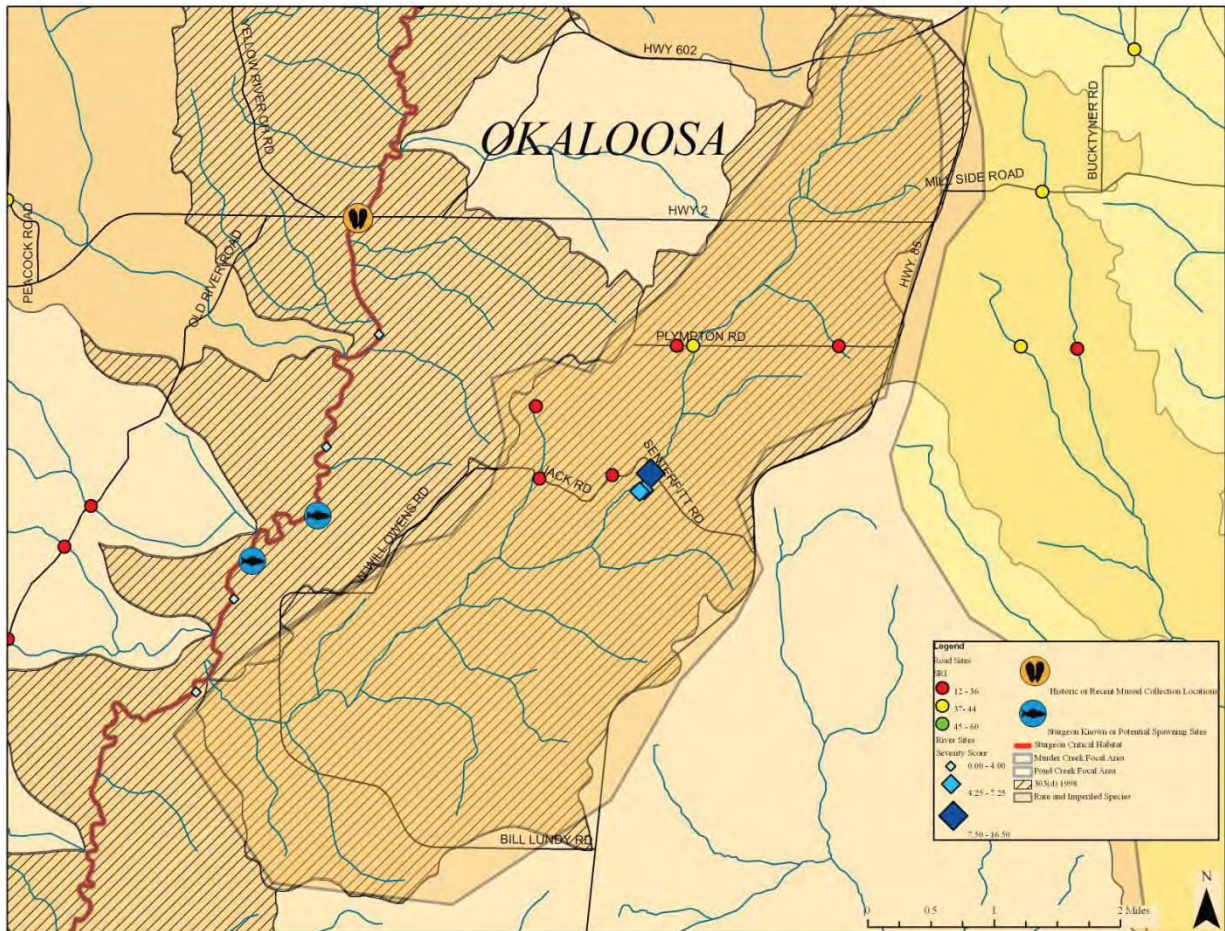
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Appendix G. Murder Creek Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



<b>Murder Creek</b>	<b>ok-1105-001</b>	<i>Severity Score</i> <b>12.5</b>
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Common: 9.7mi NW of Crestview, .02mi DS of Sentfitt Rd      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.895347188, -86.520805744      PLSS(T-R-S): 5N-23W-35/26  
Land owner: Brandon Watson- DS, Richard Moulton- US      Parcel No.: 1.1004; 8.00



US



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	COLIFORMS, DISSOLVED OXYGEN
<i>Channel Alteration</i>	In Recovery	1	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1.5	Rare and Imperiled	Yes	BLACKTIP SHINER IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Present	1.5	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Present	1.5	<i>Impoundments:</i> Manmade (Fence and Rip Rap)		
<i>RB: Riparian Buffer</i>	100+ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Full	0.75			
<i>LB: Floodplain Access</i>	None	0.25			
<b>River Threat Index:</b>		<b>12.5</b>			

Notes: Numerous amounts of rip rap in stream is causing a partial fish passage barrier, as well as a fence that the US property owner has installed upstream from the bridge. Downstream is highly entrenched and its banks are mass wasting. Banks are primarily composed of clay. View other appendices on Murder Creek for more downstream details.

<b>Murder Creek</b>	<b>ok-1105-002</b>	<i>Severity Score</i> <b>6.5</b>
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*Common:* 6mi SW of Laurel Hill, 0.16mi DS of Senterfitt Rd      *County:* Okaloosa      *State:* Florida  
*Drainage:* Yellow River      *GPS:* 30.893549221, -86.521587955      *PLSS(T-R-S):* 5N-23W-35  
*Land owner:* Brandon Watson      *Parcel No.:* 1.1004



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	Yes	COLIFORMS, DISSOLVED OXYGEN
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Mass- Wasting	1.5	Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
<i>BEHI</i>	Extreme- Very High	1.5	Land Use/ Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	None	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Extensive		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> Woody Material Jams		
<i>RB: Riparian Buffer</i>	0-29 ft	0.25	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Clay		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	None	0.75			
<b>River Threat Index:</b>		<b>6.5</b>			

Notes: Shallow channel, high sediment loads. Affected by silviculture? Murder creek contains the highest banks in the entire watershed.

<b>Murder Creek</b>	<b>ok-1105-003</b>	<b>Severity Score</b> <b>4.75</b>
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*Common:* 6.2mi SW of Laurel Hill, 0.2 miles DS from Senterfitt Rd.      *County:* Okaloosa      *State:* Florida  
*Drainage:* Yellow River      *GPS:* 30.893281952, -86.522234328      *PLSS(T-R-S):* 5N-23W-35  
*Land owner:* Lisa Jenkins      *Parcel No.:* 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	COLIFORMS, DISSOLVED OXYGEN
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	AGRILCULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	50-99 ft	0.25	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	None	0.75			
<b>River Threat Index:</b>		<b>4.75</b>			

Notes: Characteristic of the banks along the reach 0.5mi below Senterfitt Rd crossing. High sediment loads within stream.

# Unnamed tributary

ok-0429-r-014

Sedimentation Risk Index  
**22**

Common: 5.1mi SW of Laurel Hill  
Drainage: Murder Creek GPS: 30.910200, -86.517086  
Land owner: Dean & Deborah Clary

County: Okaloosa State: Florida  
PLSS(T-R-S): 5N-23-23  
Parcel No.: 5.001  
Road Name: W Plympton Road



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>22</b>



Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	N/A / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 3,23,25,34,36,37,39,40,43  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 1.0in

Notes: None

<h1>Unnamed tributary</h1>	<h2>ok-0429-r-012</h2>	<i>Sedimentation Risk Index</i> <b>26</b>
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<u>Common:</u> 6.2mi SW of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Murder Creek <i>GPS:</i> 30.894997, -86.535436	<u>PLSS(T-R-S):</u> 5N-23-34	
<u>Land owner:</u> Ralph & Carolyn Lunsford	<u>Parcel No.:</u> 2.002	
	<u>Road Name:</u> Jack Rd	



Crossing Structure: From Rt Approach



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>26</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert?	
<i>Crossing Materials:</i>	Clay	
<i>Soil Types:</i>	12,23,36,39,40,42,43	
<i>Rt Approach Prism Fill:</i>	2.0in	
<i>Lt Approach Prism Fill:</i>	1.5in	



Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/ FIELD CROPS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Unknown crossing type- Flooded when accessed 2 different days.

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Unnamed tributary	ok-0429-r-010	Sedimentation Risk Index <b>26</b>
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<u>Common:</u> 6.2mi SW of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Murder Creek <i>GPS:</i> 30.895197686, -86.525778507	<u>PLSS(T-R-S):</u> 5N-23-34	
<u>Land owner:</u> James & Joyce Arnette-US, Rose in Bloom Inc- DS East, Swampland Inc-DS West	<u>Parcel No.:</u> 1.002, 1.004	
	<u>Road Name:</u> Jack Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>26</b>

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Culvert, 2
<i>Crossing Materials:</i>	Metal
<i>Soil Types:</i>	23,39,41,43,52,56
<i>Rt Approach Prism Fill:</i>	1.5in
<i>Lt Approach Prism Fill:</i>	0.5in



Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	RESIDENTIAL/ MIXED SCRUB-SHRUB WETLAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 12ft of each culvert exposed due to road erosion. US openings covered by fencing.

<b>Coon Branch</b>	<b>ok-0429-r-016</b>	<i>Sedimentation Risk Index</i> <b>30</b>
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<u>Common:</u> 4.3mi SW of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Murder Creek <u>GPS:</u> 30.910094, -86.495503	<u>PLSS(T-R-S):</u> 5N-23-24	
<u>Land owner:</u> Sara & Kay Eoff-US, Elizabeth Ann Salter-DS	<u>Parcel No.:</u> 6, 4	
	<u>Road Name:</u> W Plympton Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Culvert, 2	
<u>Crossing Materials:</u>	PVC; Reinforced Concrete	
<u>Soil Types:</u>	12,13,23,36,37,41,42,43,49,56	
<u>Rt Approach Prism Fill:</u>	1.0in	
<u>Lt Approach Prism Fill:</u>	1.5in	



Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culvert w/outfall draining pond. High levels of sedimentation DS.



Unnamed tributary	ok-0429-r-009	Sedimentation Risk Index <b>28</b>
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<u>Common:</u> 6.2mi SW of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Murder Creek <u>GPS:</u> 30.903134133, -86.535976020	<u>PLSS(T-R-S):</u> 5N-23-27	
<u>Land owner:</u> Jesse Madden	<u>Parcel No.:</u> 5.001	
	<u>Road Name:</u> Bill Lundy Rd/85a	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	PONDED	1
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	>30°	1
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	No Impairment	5
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	21-40 y <sup>3</sup>	3
Approach Slope Mean	>4%	1
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Bare soil	0
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Bare soil	0
Downstream Lt Outlet	Bare soil	0
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Unimproved Outlet System	1
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>28</b>



Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	N/A / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 36,38,39,43,46  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.5in

Notes: Undersized culvert draining agricultural land. Loose sediment over culvert

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# Murder Creek

ok-0429-r-015

Sedimentation Risk Index  
**40**

Common: 5mi SW of Laurel Hill  
Drainage: Yellow River GPS: 30.910203, -86.514943  
Land owner: Dean & Deborah Clary

County: Okaloosa  
PLSS(T-R-S): 5N-23-23  
Parcel No.: 5.001  
Road Name: W Plympton Rd

State: Florida



Crossing Structure: DS



DS

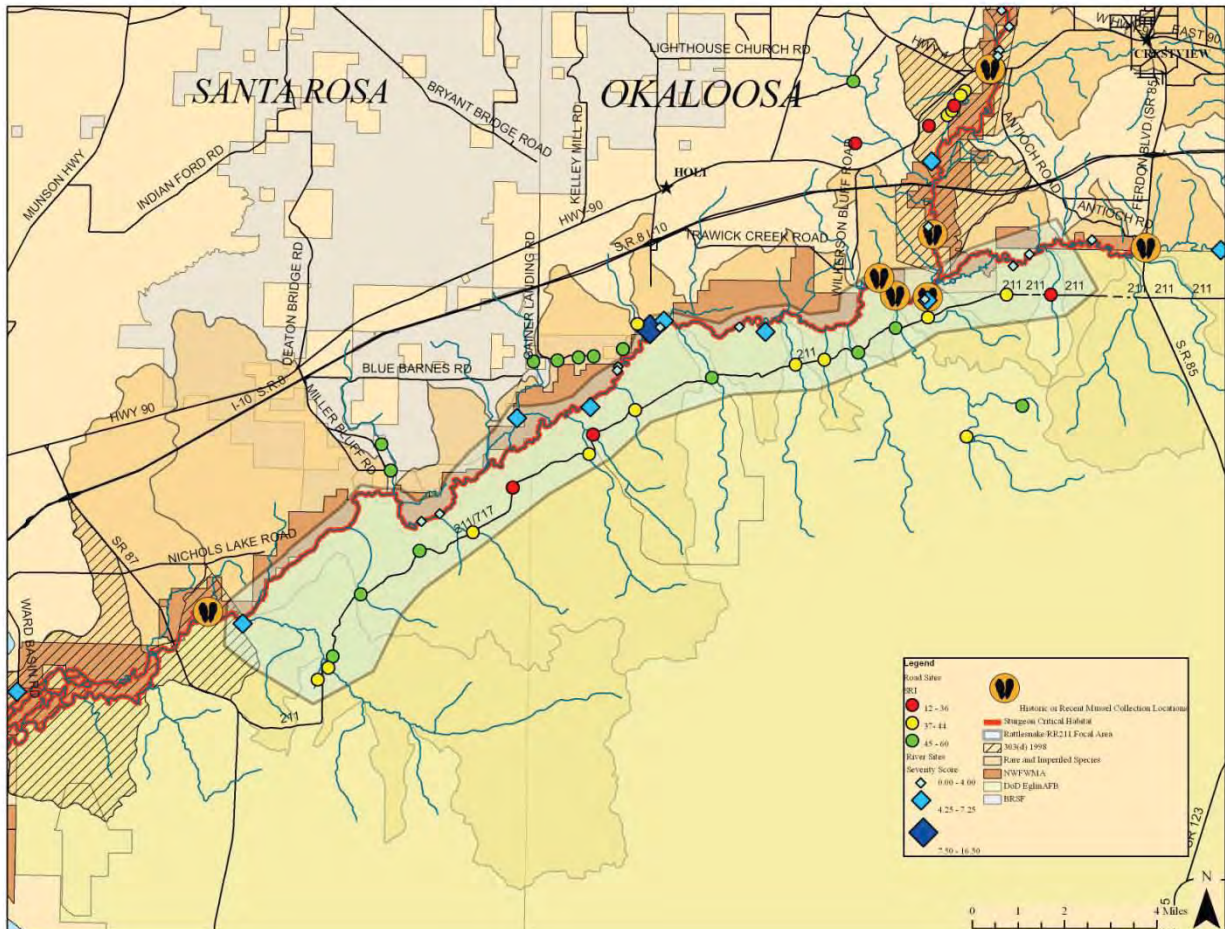
Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge,1	
<i>Crossing Materials:</i>	Wood	
<i>Soil Types:</i>	13,23,25,34,36,37,39,40,43	
<i>Rt Approach Prism Fill:</i>	1.5in	
<i>Lt Approach Prism Fill:</i>	1.0in	


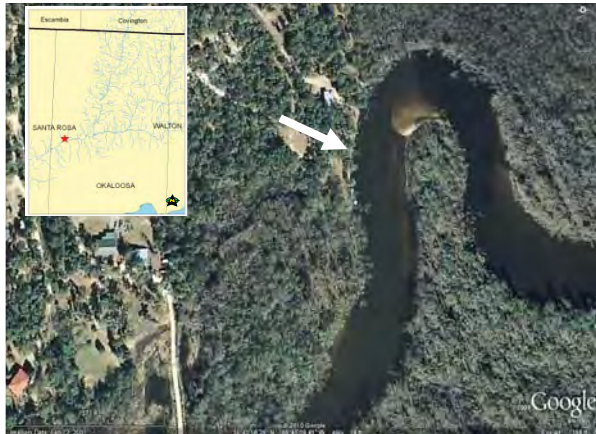


Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A



Notes: None

Appendix H. Rattlesnake Road Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Yellow River		ok-0225-005	Severity Score <b>8</b>																																																													
<i>Common:</i> 12.4mi SW of Crestview, .42 mi DS of Tarwick Creek <i>Drainage:</i> Yellow River <i>GPS:</i> 30.672143, -86.751921 <i>Land owner:</i> RB: Roland & Sara Henson/ LB: USA		<i>County:</i> Okaloosa <i>State:</i> Florida <i>PLSS(T-R-S):</i> 16-2N-25 <i>Parcel No.:</i> RB: 4.034a / LB: 2																																																														
																																																																
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Sturgeon C.H.	Yes	N/A																																																														
		<b>Additional Site Features</b> <i>Stream Channel Woody Material:</i> Infrequent <i>Impoundments:</i> None <i>Substrate Composition:</i> Sand <i>Bank Material:</i> Sand																																																														

Notes: Pipe discharge coming from a small PVC pipe on right bank boat launch. Approx. 100 yards of brick and concrete shoring structure present. "Easy Street" leads to house on right bank.

Yellow River			ok-0225-002		Severity Score <b>6.75</b>																																																																																		
<p><u>Common:</u> 12mi SW of Crestview, .05mi DS of Tarwick Creek  <u>Drainage:</u> Yellow River <u>GPS:</u> 30.674048, -86.746883  <u>Land owner:</u> Rivers Edge Campground</p>			<p><u>County:</u> Okaloosa <u>State:</u> Florida  <u>PLSS(T-R-S):</u> 2N-25W-16  <u>Parcel No.:</u> 6.003E</p>																																																																																				
																																																																																							
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303(d)	No	N/A																																																																																					
Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS																																																																																					
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER																																																																																					
Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS																																																																																					
Candidate Mussels	No	N/A																																																																																					
Sturgeon C.H.	Yes	N/A																																																																																					
<b>Additional Site Features</b>																																																																																							
<i>Stream Channel Woody Material:</i>		Infrequent																																																																																					
<i>Impoundments:</i>		None																																																																																					
<i>Substrate Composition:</i>		Medium Sand, Silt																																																																																					
<i>Bank Material:</i>		Sand																																																																																					

Notes: River's edge camp ground. Concrete boat launch and wooden sea-wall retaining RB. Old Log Lake Bridge site (historic, Google earth). Pipe discharge to DS.

<b>Pitts River</b>	<b>sr-0305-001</b>	<b>Severity Score</b> <b>6.25</b>
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<u>Common:</u> 14mi E of Milton	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River	<u>PLSS(T-R-S):</u> 2N-26W-25	
<u>Land owner:</u> H. A. Morris	<u>Parcel No.:</u> 2	
<u>GPS:</u> 30.6435, -86.800483		





RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB, IRONCOLOR SHINER, GULF STURGEON, ALABAMA SHAD, ALLIGATOR GAR, SPECKLED DARTER, SPOTTED BULLHEAD
<i>BEHI</i>	Moderate	0.5	<b>Land Use/ Cover</b>	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Present	1.5	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ft	0	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>6.25</b>			

Notes: Concrete shoring structure and two boat launches present. Road leading down is Garner Landing Rd

Yellow River		ok-0225-001	Severity Score 5.75																																																																
<u>Common:</u> 14.3mi E of Milton <u>Drainage:</u> Yellow River <u>GPS:</u> 30.646932, -86.773719 <u>Land owner:</u> RB: NFWMD / LB: USA		<u>County:</u> Okaloosa <u>State:</u> Florida <u>PLSS(T-R-S):</u> 2N-25W-29 <u>Parcel No.:</u> RB: 2/?AC / LB: 1/?AC																																																																	
																																																																			
<b>LB</b>																																																																			
<table border="1"> <thead> <tr> <th>Risk Factor</th> <th>Ranking</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td>Channel Stability</td> <td>Good</td> <td>0.5</td> </tr> <tr> <td>Channel Alteration</td> <td>None</td> <td>0</td> </tr> <tr> <td>Bank Erosion</td> <td>Historic</td> <td>1</td> </tr> <tr> <td>BEHI</td> <td>High</td> <td>1</td> </tr> <tr> <td>Local NPSP</td> <td>Moderate Potential</td> <td>1</td> </tr> <tr> <td>Shoring Structures</td> <td>Present</td> <td>1.5</td> </tr> <tr> <td>Pipe Discharge</td> <td>Not Present</td> <td>0</td> </tr> <tr> <td>Water Odors</td> <td>Not Present</td> <td>0</td> </tr> <tr> <td>Fish Passage Barrier</td> <td>Not Present</td> <td>0</td> </tr> <tr> <td>RB: Riparian Buffer</td> <td>100+ ft</td> <td>0</td> </tr> <tr> <td>LB: Riparian Buffer</td> <td>0-29 ft</td> <td>0.75</td> </tr> <tr> <td>RB: Floodplain Access</td> <td>Full</td> <td>0</td> </tr> <tr> <td>LB: Floodplain Access</td> <td>Full</td> <td>0</td> </tr> <tr> <td colspan="2"><b>River Threat Index:</b></td> <td><b>5.75</b></td> </tr> </tbody> </table>	Risk Factor	Ranking	Score	Channel Stability	Good	0.5	Channel Alteration	None	0	Bank Erosion	Historic	1	BEHI	High	1	Local NPSP	Moderate Potential	1	Shoring Structures	Present	1.5	Pipe Discharge	Not Present	0	Water Odors	Not Present	0	Fish Passage Barrier	Not Present	0	RB: Riparian Buffer	100+ ft	0	LB: Riparian Buffer	0-29 ft	0.75	RB: Floodplain Access	Full	0	LB: Floodplain Access	Full	0	<b>River Threat Index:</b>		<b>5.75</b>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>Yes</td> <td>4-6 FOCAL SPECIES IN WETLAND AREAS</td> </tr> <tr> <td>Rare and Imperiled</td> <td>Yes</td> <td>ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER</td> </tr> <tr> <td>Land Use/Cover</td> <td>Yes</td> <td>N/A/ STREAMS AND WATERWAYS</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>Yes</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	Yes	4-6 FOCAL SPECIES IN WETLAND AREAS	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS	Candidate Mussels	No	N/A	Sturgeon C.H.	Yes	N/A
Risk Factor	Ranking	Score																																																																	
Channel Stability	Good	0.5																																																																	
Channel Alteration	None	0																																																																	
Bank Erosion	Historic	1																																																																	
BEHI	High	1																																																																	
Local NPSP	Moderate Potential	1																																																																	
Shoring Structures	Present	1.5																																																																	
Pipe Discharge	Not Present	0																																																																	
Water Odors	Not Present	0																																																																	
Fish Passage Barrier	Not Present	0																																																																	
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RB: Floodplain Access	Full	0																																																																	
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303(d)	No	N/A																																																																	
Wetland Species	Yes	4-6 FOCAL SPECIES IN WETLAND AREAS																																																																	
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER																																																																	
Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS																																																																	
Candidate Mussels	No	N/A																																																																	
Sturgeon C.H.	Yes	N/A																																																																	
		<b>Additional Site Features</b> <u>Stream Channel Woody Material:</u> Infrequent <u>Impoundments:</u> None <u>Substrate Composition:</u> Medium Sand and Clay <u>Bank Material:</u> Sand																																																																	

Notes: Bleachers and garbage barrels present onshore. An unpaved Eglin AFB road leads to the site.

<h1>Yellow River</h1>	<h2>ok-0319-001</h2>	<b>Severity Score</b> <h1>5.25</h1>
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Common: 7mi SW of Crestview, Little Gin Hole Landing on EAFB  
Drainage: Blackwater Bay GPS: 30.680277, -86.650922  
Land owner: USA- Eglin AFB

County: Okaloosa State: Florida  
PLSS(T-R-S): 2N-16W-16  
Parcel No.: 1





LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	<b>Land Use/ Cover</b>	Yes	N/A/ STREAMS AND WATERWAYS & UPLAND AND CONIFEROUS FORESTS
<i>Local NPSP</i>	Moderate Potential	1	<b>Candidate Mussels</b>	Yes	NARROW PIGTOE
<i>Shoring Structures</i>	Present	1.5	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand and Gravel		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>5.25</b>			

Notes: A gravel road leads to this recreational site. Little Gin Hole Landing.



Yellow River		ok-0319-006	Severity Score 4.75
<u>Common:</u> 10.3mi SW of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.670433, -86.709917 <u>Land owner:</u> RB: NFWFMD/ LB: USA		<u>County:</u> Okaloosa <u>State:</u> Florida <u>PLSS(T-R-S):</u> 2N-25W-14 <u>Parcel No.:</u> 1/2	
			
LB			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	
<i>Channel Stability</i>	Poor	1.5	
<i>Channel Alteration</i>	None	0	
<i>Bank Erosion</i>	Mass Wasting	1.5	
<i>BEHI</i>	High	1	
<i>Local NPSP</i>	No Evidence	0	
<i>Shoring Structures</i>	Not Present	0	
<i>Pipe Discharge</i>	Not Present	0	
<i>Water Odors</i>	Not Present	0	
<i>Fish Passage Barrier</i>	Not Present	0	
<i>RB: Riparian Buffer</i>	100+ ft	0	
<i>LB: Riparian Buffer</i>	30-49 ft	0.5	
<i>RB: Floodplain Access</i>	Full	0	
<i>LB: Floodplain Access</i>	Partial	0.25	
<b>River Threat Index:</b>		<b>4.75</b>	
<b>Feature</b>	<b>Within Range</b>	<b>Descriptive Field</b>	
303(d)	No	N/A	
Wetland Species	Yes	4-6 FOCAL SPECIES IN WETLAND AREAS	
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER	
Land Use/ Cover	Yes	N/A/ STREAMS AND WATERWAYS	
Candidate Mussels	No	N/A	
Sturgeon C.H.	Yes	N/A	
<b>Additional Site Features</b>			
<i>Stream Channel Woody Material:</i>		Infrequent	
<i>Impoundments:</i>		None	
<i>Substrate Composition:</i>		Clay Marl	
<i>Bank Material:</i>		Sand and Clay	

Notes: Roots and new trees showing recent repair of riparian buffer, but bare banks. Logging road 33ft from rivers edge on the left bank. Former clear cut evident in historical aerial (1994).

<b>Boiling Creek</b>	<b>sr-1006-001</b>	<i>Severity Score</i> <b>4.25</b>
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Common: 6.2mi SE of Milton      County: Santa Rosa      State: Florida  
Drainage: Yellow River      GPS: 30.57882639, -86.900219682      PLSS(T-R-S): 1N-27W-24  
Land owner: LB: USA- Eglin AFB/ RB: NFWFMD      Parcel No.: 2/1



LB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	Yes	BLUENOSE SHINER, IRONCOLOR SHINER
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A/ WETLAND FORESTED MIXED
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	Yes	NARROW PIGTOE
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.25</b>			

Notes: The public boat launch is frequented for AFB training. Team observed multiple Hummers at launch as well as witnessed closing of the road for the final mission for Ranger School. Boat launch is composed of about five percent concrete. Road leading to boat launch is within the flood plain and frequently flooded. Difficult to drive.

Yellow River		ok-0319-002	Severity Score 3.75	
<u>Common:</u> 7.4mi SW of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.680552, -86.651965 <u>Land owner:</u> USA- Eglin AFB		<u>County:</u> Okaloosa <u>State:</u> Florida <u>PLSS(T-R-S):</u> 2N-16W-16 <u>Parcel No.:</u> 1		
				
LB				
Risk Factor	Ranking	Score	Feature Within Range Descriptive Field	
<i>Channel Stability</i>	Good	0.5	303(d) No N/A	
<i>Channel Alteration</i>	None	0	Wetland Species Yes 1-3 FOCAL SPECIES IN UPLAND AREAS	
<i>Bank Erosion</i>	Historic	1	Rare and Imperiled Yes ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER	
<i>BEHI</i>	Moderate	0.5	Sturgeon Spawning No N/A/ STREAMS AND WATERWAYS	
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels Yes NARROW PIGTOE	
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H. Yes N/A	
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>	
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate	
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None	
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand	
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand	
<i>RB: Floodplain Access</i>	Full	0		
<i>LB: Floodplain Access</i>	Full	0		
<b>River Threat Index:</b>		<b>3.75</b>		

Notes: Eglin AFB Gin Hole Landing recreational site. Found shotgun shells on the bank. Scar of improvised boat launch? Evidence of camp fires. Top of LB is clear.

<b>Shoal River</b>	<b>ok-0421-003</b>	<i>Severity Score</i> <b>3.5</b>
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*Common:* 5.7mi SW of Crestview  
*Drainage:* Yellow River *GPS:* 30.690948407, -86.619695355  
*Land owner:* USA – Eglin AFB  
*County:* Okaloosa *State:* Florida  
*PLSS(T-R-S):* 2N-24W-11  
*Parcel No.:* 1





LB





Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not eroding	0	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	<b>Land Use/Cover</b>	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	None	0.75			
<b>River Threat Index:</b>		<b>3.5</b>			

Notes: Road adjacent to eroded bank, contributing

Yellow River			ok-0225-003		Severity Score <b>3.5</b>
<p><u>Common:</u> 12.2mi SW of Crestview, .2mi DS Tarwick Creek  <u>Drainage:</u> Yellow River <u>GPS:</u> 30.671957, -86.748319  <u>Land owner:</u> RB: Joe Livingston/ LB: USA- Eglin AFB</p>			<p><u>County:</u> Okaloosa <u>State:</u> Florida  <u>PLSS(T-R-S):</u> 16-2N-25  <u>Parcel No.:</u> 6.003F/ LB: 2</p>		
					
<p>RB</p>					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
Channel Stability	Fair	1	303(d)	No	N/A
Channel Alteration	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Bank Erosion	Active	1	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
BEHI	High	1	Land Use/ Cover	Yes	N/A/ STREAMS AND WATERWAYS
Local NPSP	Slight	0.5	Candidate Mussels	No	N/A
Shoring Structures	Not Present	0	Sturgeon C.H.	Yes	N/A
Pipe Discharge	Not Present	0	<b>Additional Site Features</b>		
Water Odors	Not Present	0	<u>Stream Channel Woody Material:</u> Moderate		
Fish Passage Barrier	Not Present	0	<u>Impoundments:</u> None		
RB: Riparian Buffer	100+ ft	0	<u>Substrate Composition:</u> Medium Sand		
LB: Riparian Buffer	100+ ft	0	<u>Bank Material:</u> Sand		
RB: Floodplain Access	Full	0			
LB: Floodplain Access	Full	0			
		<b>River Threat Index:</b>	<b>3.5</b>		

Notes: This site is the south end of a foot path coming from the River's Edge Campground, pictured in the northeast corner of the aerial photo.

Yellow River		ok-0319-007	Severity Score 2.5
<i>Common:</i> 7.4mi SW of Crestview		<i>County:</i> Okaloosa	<i>State:</i> Florida
<i>Drainage:</i> Blackwater Bay <i>GPS:</i> 30.672025, -86.719466		<i>PLSS:</i> 2N-25W-14	
<i>Land owner:</i> RB: NFWFMD / LB: USA		<i>Parcel No.:</i> 1 / 2	
			
LB			
Risk Factor	Ranking	Score	Feature Within Range Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d) No N/A
<i>Channel Alteration</i>	None	0	Wetland Species Yes 1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled Yes ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	Land Use/Cover Yes N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels No N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H. Yes N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Clay Marl
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Clay Marl
<i>RB: Floodplain Access</i>	Full	0	
<i>LB: Floodplain Access</i>	Full	0	
<b>River Threat Index:</b>		<b>2.5</b>	

Notes: Old silviculture site? Very limited old growth, mostly the first few feet on top of the bank. The vegetation beyond the initial floodplain coverage is clearly young growth. Aerial image shows evidence of the old lateral meander channel.

<b>Yellow River</b>	<b>ok-0224-001</b>	<i>Severity Score</i> <b>2.5</b>
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Common: 13.4mi SE of Crestview  
Drainage: Blackwater Bay GPS: 30.659633, -86.763533  
Land owner: LB: NFWFMD; USA- Eglin AFB

County: Okaloosa  
PLSS: 2N-25W-20  
Parcel No.: LB: 1.001; 3

State: Florida



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	<b>Land Use/ Cover</b>	Yes	N/A/ STREAMS AND LAKE SWAMPS (BOTTOMLAND)
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.5</b>			

Notes: Close proximity to a public boat launch. Receives a lot of wake/ wave action.

<b>Yellow River</b>	<b>sr-0305-005</b>	<i>Severity Score</i> <b>2</b>
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<p><u>Common:</u> 11mi E of Bagdad  <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.611, -86.835167  <u>Land owner:</u> RB: NFWFMD / LB: USA- Eglin AFB</p>	<p><u>County:</u> Santa Rosa  <u>PLSS:</u> 1N-26W-10  <u>Parcel No.:</u> 1/2</p>	<p><u>State:</u> Florida</p>
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RB





Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, GULF STURGEON, ALLIGATOR GAR, SPOTTED BULLHEAD, BLUENOSE SHINER, GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2</b>			

Notes: Natural feature





Yellow River		sr-0305-004	Severity Score 1.5																																																																															
<u>Common:</u> 12mi E of Bagdad <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.613383, -86.828517 <u>Land owner:</u> NFWFMD		<u>County:</u> Santa Rosa <u>State:</u> Florida <u>PLSS:</u> 1N-26W-3 <u>Parcel No.:</u> 1.001																																																																																
																																																																																		
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<table border="1"> <thead> <tr> <th>Risk Factor</th> <th>Ranking</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td><i>Channel Stability</i></td> <td>Fair</td> <td>1</td> </tr> <tr> <td><i>Channel Alteration</i></td> <td>None</td> <td>0</td> </tr> <tr> <td><i>Bank Erosion</i></td> <td>Historic</td> <td>0.5</td> </tr> <tr> <td><i>BEHI</i></td> <td>Low-Very Low</td> <td>0</td> </tr> <tr> <td><i>Local NPSP</i></td> <td>No Evidence</td> <td>0</td> </tr> <tr> <td><i>Shoring Structures</i></td> <td>Not Present</td> <td>0</td> </tr> <tr> <td><i>Pipe Discharge</i></td> <td>Not Present</td> <td>0</td> </tr> <tr> <td><i>Water Odors</i></td> <td>Not Present</td> <td>0</td> </tr> <tr> <td><i>Fish Passage Barrier</i></td> <td>Not Present</td> <td>0</td> </tr> <tr> <td><i>RB: Riparian Buffer</i></td> <td>100+ ft</td> <td>0</td> </tr> <tr> <td><i>LB: Riparian Buffer</i></td> <td>100+ ft</td> <td>0</td> </tr> <tr> <td><i>RB: Floodplain Access</i></td> <td>Full</td> <td>0</td> </tr> <tr> <td><i>LB: Floodplain Access</i></td> <td>Full</td> <td>0</td> </tr> <tr> <td colspan="2"><b>River Threat Index:</b></td> <td><b>1.5</b></td> </tr> </tbody> </table>	Risk Factor	Ranking	Score	<i>Channel Stability</i>	Fair	1	<i>Channel Alteration</i>	None	0	<i>Bank Erosion</i>	Historic	0.5	<i>BEHI</i>	Low-Very Low	0	<i>Local NPSP</i>	No Evidence	0	<i>Shoring Structures</i>	Not Present	0	<i>Pipe Discharge</i>	Not Present	0	<i>Water Odors</i>	Not Present	0	<i>Fish Passage Barrier</i>	Not Present	0	<i>RB: Riparian Buffer</i>	100+ ft	0	<i>LB: Riparian Buffer</i>	100+ ft	0	<i>RB: Floodplain Access</i>	Full	0	<i>LB: Floodplain Access</i>	Full	0	<b>River Threat Index:</b>		<b>1.5</b>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>Yes</td> <td>1-3 FOCAL SPECIES IN UPLAND AREAS</td> </tr> <tr> <td>Rare and Imperiled</td> <td>Yes</td> <td>ALABAMA SHAD, GULF STURGEON, ALLIGATOR GAR, SPOTTED BULLHEAD, BLUENOSE SHINER, GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB</td> </tr> <tr> <td>Land Use/Cover</td> <td>Yes</td> <td>N/A/ STREAMS AND WATERWAYS</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>Yes</td> <td>N/A</td> </tr> <tr> <td colspan="3"><b>Additional Site Features</b></td> </tr> <tr> <td colspan="2"><i>Stream Channel Woody Material:</i></td> <td>Numerous</td> </tr> <tr> <td colspan="2"><i>Impoundments:</i></td> <td>None</td> </tr> <tr> <td colspan="2"><i>Substrate Composition:</i></td> <td>Medium Sand</td> </tr> <tr> <td colspan="2"><i>Bank Material:</i></td> <td>Sand</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS	Rare and Imperiled	Yes	ALABAMA SHAD, GULF STURGEON, ALLIGATOR GAR, SPOTTED BULLHEAD, BLUENOSE SHINER, GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS	Candidate Mussels	No	N/A	Sturgeon C.H.	Yes	N/A	<b>Additional Site Features</b>			<i>Stream Channel Woody Material:</i>		Numerous	<i>Impoundments:</i>		None	<i>Substrate Composition:</i>		Medium Sand	<i>Bank Material:</i>		Sand
Risk Factor	Ranking	Score																																																																																
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<i>Impoundments:</i>		None																																																																																
<i>Substrate Composition:</i>		Medium Sand																																																																																
<i>Bank Material:</i>		Sand																																																																																

Notes: Natural feature.

Shoal River		ok-0422-001		Severity Score 1.5	
<u>Common:</u> 5.3mi SW of Crestview		<u>County:</u> Okaloosa		<u>State:</u> Florida	
<u>Drainage:</u> Yellow River		<u>PLSS:</u> 2N-24W-11			
<u>Land owner:</u> USA		<u>Parcel No.:</u> 1			
					
<b>LB</b>					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not eroding	0	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Low-Very Low	0	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Coarse Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.5</b>			

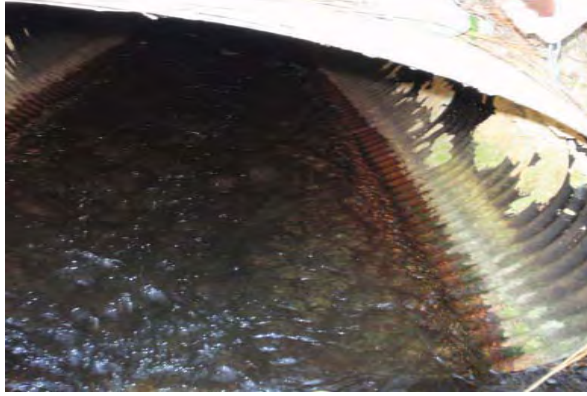
Notes: Aggradational Site: Large, fresh deposit extended into forest- 4 in of fine sand and about 1 inch of coarse sand result of recent heavy rains and flooding.

Yellow River		ok-0224-002	Severity Score 1.5
<u>Common:</u> 16.6mi NE of Bagdad <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.658450, -86.763867 <u>Land owner:</u> RB: NFWFMD / LB: USA- Eglin AFB		<u>County:</u> Okaloosa <u>State:</u> Florida <u>PLSS:</u> 2N-25W-20 <u>Parcel No.:</u> 1.001/ 3	
			
<b>RB</b>			
Risk Factor	Ranking	Score	Feature Within Range Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d) No N/A
<i>Channel Alteration</i>	None	0	Wetland Species Yes 1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled Yes ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	
<i>Local NPSP</i>	No Evidence	0	
<i>Shoring Structures</i>	Not Present	0	Land Use/ Cover Yes N/A/ STREAMS AND LAKE SWAMPS (BOTTOMLAND)
<i>Pipe Discharge</i>	Not Present	0	
<i>Water Odors</i>	Not Present	0	Candidate Mussels No N/A
<i>Fish Passage Barrier</i>	Not Present	0	Sturgeon C.H. Yes N/A
<i>RB: Riparian Buffer</i>	100+ ft	0	
<i>LB: Riparian Buffer</i>	100+ ft	0	
<i>RB: Floodplain Access</i>	Full	0	
<i>LB: Floodplain Access</i>	Full	0	
<b>River Threat Index:</b>		<b>1.5</b>	<b>Additional Site Features</b> <i>Stream Channel Woody Material:</i> Moderate <i>Impoundments:</i> None <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Sand, Mud, and Roots

Notes: Riparian zone is fully intact. Natural eroding bend.

<b>Camp Creek</b>	<b>ok-0407-r-007</b>	<b>Sedimentation Risk Index</b> <b>34</b>
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<u>Common:</u> 5.5mi SSW of Holt	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.638242, -86.772761	<u>PLSS(T-R-S):</u> 2N-25-31	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Rattlesnake Bluff Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	6,12,13,20,24,25
<u>Rt Approach Prism Fill:</u>	2.0in
<u>Lt Approach Prism Fill:</u>	0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	INSTITUTIONAL/ NA
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Failing BMPs installed DS. Unnaturally ponded as a result of undersized

<h1>Crane Branch</h1>	<h2>sr-0414-r-001</h2>	<b>Sedimentation Risk Index</b> <h1>34</h1>
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<u>Common:</u> 5.3mi SE of Harold	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <span style="float:right"><u>GPS:</u> 30.621522, -86.801922</span>	<u>PLSS(T-R-S):</u> 1N-26-01	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> RR 211- Eglin AFB	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	7,21,22,23
<u>Rt Approach Prism Fill:</u>	2.0in
<u>Lt Approach Prism Fill:</u>	2.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ NA
Candidate Mussels	No	N/A
Sturgeon	No	N/A

Notes: Failing BMPs installed. 1 culvert blocked 1 clear



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Gopher Creek		ok-0318-r-001	Sedimentation Risk Index <b>36</b>																					
<u>Common:</u> 5.9mi SW of Crestview <u>Drainage:</u> Shoal River <u>GPS:</u> 30.681847, -86.606008 <u>Land owner:</u> US Government- Eglin AFB		<u>County:</u> Okaloosa <u>State:</u> Florida <u>PLSS (T-R-S):</u> 2N-24-11 <u>Parcel No.:</u> 1 <u>Road Name:</u> Rattlesnake Hill Rd																						
																								
Crossing Structure: DS		DS																						
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>																						
<i>US Channel Morph</i>	E	5																						
<i>DS Channel Morph</i>	DA	3																						
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3																						
<i>Upstream Skew Angle</i>	<5°	5																						
<i>Crossing fill condition</i>	Good/Vegetated	5																						
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3																						
<i>Road Approach Material</i>	All Sand/Clay	3																						
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1																						
<i>Approach Slope Mean</i>	>4%	1																						
<i>Soil K Factor</i>	<0.20	5																						
<i>Upstream Rt Outlet</i>	Bare soil	0																						
<i>Upstream Lt Outlet</i>	Bare soil	0																						
<i>Upstream Rt Ditch</i>	Bare soil	0																						
<i>Upstream Lt Ditch</i>	Bare soil	0																						
<i>Downstream Rt Outlet</i>	Bare soil	0																						
<i>Downstream Lt Outlet</i>	Bare soil	0																						
<i>Downstream Rt Ditch</i>	Bare soil	0																						
<i>Downstream Lt Ditch</i>	Bare soil	0																						
<i>Outlet Total</i>	Unimproved Outlet System	1																						
<i>Ditches Total</i>	Unimproved Drainage System	1																						
<i>SRI Total</i>	<b>High Risk</b>	<b>36</b>																						
<b>Additional Site Features</b>		<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>Yes</td> <td>1-3 FOCAL SPECIES IN UPLAND AREAS</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/Cover</td> <td>Yes</td> <td>INSTITUTIONAL/ N/A</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>		Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS	Rare and Imperiled	No	N/A	Land Use/Cover	Yes	INSTITUTIONAL/ N/A	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A
Feature	Within Range	Descriptive Field																						
303(d)	No	N/A																						
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS																						
Rare and Imperiled	No	N/A																						
Land Use/Cover	Yes	INSTITUTIONAL/ N/A																						
Candidate Mussels	No	N/A																						
Sturgeon C.H.	No	N/A																						
<u>Crossing Type and Quantity:</u>	Culvert, 1																							
<u>Crossing Materials:</u>	Reinforced Concrete																							
<u>Soil Types:</u>	12,13,14,25																							
<u>Lt Approach Prism Fill:</u>	0.5in																							
<u>Rt Approach Prism Fill:</u>	1.0in																							

Notes: Rt Outlet draining directly into DS via additional culvert.

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<b>Carroll Creek</b>	<b>ok-0407-r-006</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 4.9mi S of Holt	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <i>GPS:</i> 30.645911, -86.757428	<u>PLSS(T-R-S):</u> 2N-25-22	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Rattlesnake Bluff Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	4,6,8,12,13,14,20,23,24,25,50	
<i>Rt Approach Prism Fill:</i>	2.5in	
<i>Lt Approach Prism Fill:</i>	3.0in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Failing BMPs installed. Culvert undersized for flow affecting skew angle.

<b>Milligan Creek</b>	<b>ok-0407-r-008</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 6.6mi SE of Harold	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.631983, -86.774081	<u>PLSS(T-R-S):</u> 2N-25-31	
<u>Land owner:</u> US Government-Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Rattlesnake Bluff Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	4,6,8,12,13,14,20,23,25,50
<u>Rt Approach Prism Fill:</u>	1.0in
<u>Lt Approach Prism Fill:</u>	3.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	4-6 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	INSTITUTIONAL/NA
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Bare soil fill and drainage/outlets, major score influence. High slope %, sediment input.



<h1 style="margin:0;">Atwell Pond</h1>	<h2 style="margin:0;">sr-0414-r-005</h2>	<i>Sedimentation Risk Index</i> <b style="font-size: 1.2em;">40</b>
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<u>Common:</u> 6.7mi S of Harold	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Poplar Branch <i>GPS:</i> 30.561150, -86.873011	<u>PLSS(T-R-S):</u> 1N-26-29	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> RR 211-Eglin AFB	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	PUBLIC/SEMI-PUBLIC/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert,1; Stand Pipe, 1  
Crossing Materials: Reinforced Concrete; Metal  
Soil Types: 7,21,23,46  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 0.5in

Notes: Recreational site- possible fishing pond.




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Crain Pond		ok-0318-r-002	Sedimentation Risk Index <b>42</b>																																																																		
<u>Common:</u> 6.3mi SW of Crestview <u>Drainage:</u> Shoal River <u>GPS:</u> 30.681965, -86.622201 <u>Land owner:</u> US Government- Eglin AFB		<u>County:</u> Okaloosa <u>State:</u> Florida <u>PLSS(T-R-S):</u> 2N-24-11 <u>Parcel No.:</u> 1 <u>Road Name:</u> Rattlesnake Bluff Rd																																																																			
																																																																					
<b>Crossing Structure- US</b>		<b>DS</b>																																																																			
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Candidate Mussels	No	N/A																																																																			
Sturgeon C.H.	No	N/A																																																																			
<b>Additional Site Features</b> <u>Crossing Type and Quantity:</u> Reservoir Drain, 1 <u>Crossing Materials:</u> Reinforced Concrete <u>Soil Types:</u> 6,12,13,20,24,25 <u>Rt Approach Prism Fill:</u> 1.0in <u>Lt Approach Prism Fill:</u> 1.5in																																																																					

Notes: Reservoir drain/stand pipe US, unable to locate DS drainage structure.

<b>Carr Spring Branch</b>	<b>ok-0318-r-003</b>	<b>Sedimentation Risk Index</b> <b>42</b>
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*Common:* 8.2mi SW of Crestview  
*Drainage:* Yellow River *GPS:* 30.674736, -86.650819  
*Land owner:* US Government- Eglin AFB

*County:* Okaloosa *State:* Florida  
*PLSS(T-R-S):* 2N-24-16  
*Parcel No.:* 1  
*Road Name:* Rattlesnake Bluff Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Riprap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features	
<i>Crossing Type and Quantity:</i>	Culvert, 1
<i>Crossing Materials:</i>	Reinforced Concrete
<i>Soil Types:</i>	4,6,8,12,13,20,24,25
<i>Rt Approach Prism Fill:</i>	2.5in
<i>Lt Approach Prism Fill:</i>	2.0in



Notes: Fish passage barrier due to DS drop off. Located between two lateral roads Gin Hole/Little Gin Hole.

Unnamed tributary	ok-0407-r-003	Sedimentation Risk Index <b>44</b>
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Common: 5.6mi SE of Holt      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.661569, -86.688442      PLSS(T-R-S): 2N-24-19  
Land owner: US Government- Eglin AFB      Parcel No.: 1  
Road Name: Rattlesnake Bluff Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species Rare and Imperiled	Yes	4-6 FOCAL SPECIES IN UPLAND AREAS ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 4,6,8,12  
Rt Approach Prism Fill: 1.5in  
Lt Approach Prism Fill: 1.5in

Notes: None.

<b>Malone Creek</b>	<b>ok-0407-r-004</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 4.7mi SE of Holt	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.660061, -86.698961	<u>PLSS(T-R-S):</u> 2N-25-22	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Rattlesnake Bluff Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Riprap	3
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 4,8,6,12  
Rt Approach Prism Fill: 0.75in  
Lt Approach Prism Fill: 0.5in

Notes: Rip rap in stream causing potential fish passage barrier.

<h1 style="margin:0;">Wolf Creek</h1>	<h2 style="margin:0;">sr-0407-r-009</h2>	<i>Sedimentation Risk Index</i> <b style="font-size: 1.5em;">44</b>
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<u>Common:</u> 5.2mi SE of Harold	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <i>GPS:</i> 30.607561, -86.816481	<u>PLSS(T-R-S):</u> 1N-26-11	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> RR 211- Eglin AFB	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
<b>Wetland Species Rare and Imperiled</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS  ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<b>Land Use/Cover</b>	Yes	INSTITUTIONAL/ NA
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon</b>	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: 7,21,22,23,46

Rt Approach Prism Fill: 1.0in

Lt Approach Prism Fill: 0.5in

Notes: Undersized culvert.

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<b>Boiling Creek</b>	<b>sr-0414-r-004</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 6.5mi S of Harold	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <i>GPS:</i> 30.564953, -86.869203	<u>PLSS(T-R-S):</u> 1N-26-29	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> RR 211- Eglin AFB	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	BLUENOSE SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	PUBLIC/SEMI-PUBLIC/NA
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	7,21,22,34,40,46,47
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	0.5in

Notes: US RT outlet leads directly to US channel for approx. 100 ft. Public swimming hole, canoe launch. Frequented for missions by Eglin.

<h1>Turkey Gobbler Creek</h1>	<h2>ok-0318-r-004</h2>	<i>Sedimentation Risk Index</i> <h1>46</h1>
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<p><i>Common:</i> 7.6mi SW of Crestview  <i>Drainage:</i> Yellow River <i>GPS:</i> 30.671397, -86.662544  <i>Land owner:</i> US Government- Eglin AFB</p>	<p><i>County:</i> Okaloosa <i>State:</i> Florida  <i>PLSS(T-R-S):</i> 2N-24-17  <i>Parcel No.:</i> 2  <i>Road Name:</i> Rattlesnake Bluff Rd</p>
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Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	INSTITUTIONAL/ NA
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

**Additional Site Features**  
*Crossing Type and Quantity:* Bridge, 1  
*Crossing Materials:* Reinforced Concrete  
*Soil Types:* 4,6,8,12,13,20,24,25  
*Rt Approach Prism Fill:* 2.5in  
*Lt Approach Prism Fill:* 1.5in

Notes: None

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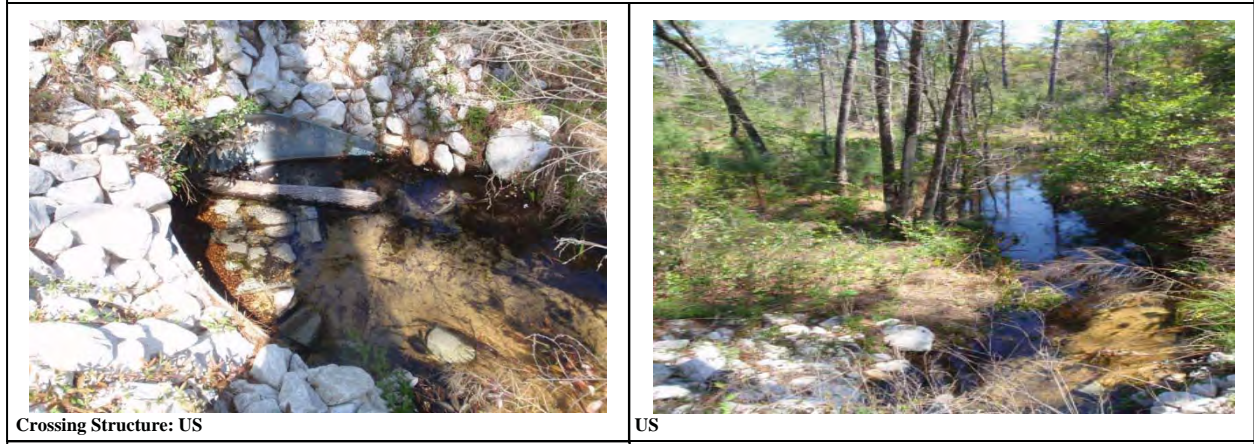


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<h1 style="margin:0;">Broxon Branch</h1>	<h2 style="margin:0;">sr-0407-r-010</h2>	<i>Sedimentation Risk Index</i> <b style="font-size: 1.5em;">46</b>
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<u>Common:</u> 4.7mi SE of Harold	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <i>GPS:</i> 30.601675, -86.835833	<u>PLSS(T-R-S):</u> 1N-26-10	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> RR 211- Eglin AFB	




Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	C	5	
<i>DS Channel Morph</i>	C	5	
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3	
<i>Upstream Skew Angle</i>	5-30°	3	
<i>Crossing fill condition</i>	Fair/Rip Rap	3	
<i>Inlet/Outlet Condition</i>	No Impairment	5	
<i>Road Approach Material</i>	All Sand/Clay	3	
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3	
<i>Approach Slope Mean</i>	<2%	5	
<i>Soil K Factor</i>	<0.20	5	
<i>Upstream Rt Outlet</i>	Vegetated	1	
<i>Upstream Lt Outlet</i>	Vegetated	1	
<i>Upstream Rt Ditch</i>	Bare soil	0	
<i>Upstream Lt Ditch</i>	Bare soil	0	
<i>Downstream Rt Outlet</i>	Vegetated	1	
<i>Downstream Lt Outlet</i>	Vegetated	1	
<i>Downstream Rt Ditch</i>	Bare soil	0	
<i>Downstream Lt Ditch</i>	Bare soil	0	
<i>Outlet Total</i>	Improved Outlet System	5	
<i>Ditches Total</i>	Unimproved Drainage System	1	
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>46</b>	

<u>Additional Site Features</u>		
<u>Crossing Type and Quantity:</u>	Culvert,1	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	6,12,13,20,24,25	
<u>Rt Approach Prism Fill:</u>	1.0in	
<u>Lt Approach Prism Fill:</u>	1.0in	

		
<b>Feature</b>	<b>Within Range</b>	<b>Descriptive Field</b>
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap in stream bed

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<h1 style="margin:0;">Bear Creek</h1>	<h2 style="margin:0;">sr-0414-r-002</h2>	<i>Sedimentation Risk Index</i> <h1 style="margin:0;">46</h1>
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<u>Common:</u> 5.1mi S of Harold	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <span style="float:right"><u>GPS:</u> 30.588031, -86.857264</span>	<u>PLSS(T-R-S):</u> 1N-26-16	
<u>Land owner:</u> US Government-Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> RR 211- Eglin AFB	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>46</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert,1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	7,21,22,23	
<i>Rt Approach Prism Fill:</i>	0.25in	
<i>Lt Approach Prism Fill:</i>	1.0in	



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<b>Land Use/Cover</b>	Yes	PUBLIC/SEMI-PUBLIC/ NA
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: None.

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<b>Middle Creek</b>	<b>ok-0318-r-005</b>	<i>Sedimentation Risk Index</i> <b>48</b>
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*Common:* 5.4mi SE of Holt  
*Drainage:* Yellow River *GPS:* 30.663836, -86.676223  
*Land owner:* US Government- Eglin AFB

*County:* Okaloosa *State:* Florida  
*PLSS(T-R-S):* 2N-24-19  
*Parcel No.:* 2  
*Road Name:* Rattlesnake Bluff Rd



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Riprap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



**Additional Site Features**  
*Crossing Type and Quantity:* Bridge, 1  
*Crossing Materials:* Reinforced Concrete  
*Soil Types:* 4,6,8,12,13,20,24,25  
*Rt Approach Prism Fill:* 2.0in  
*Lt Approach Prism Fill:* 2.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None.

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<b>Metts Creek</b>	<b>ok-0407-r-005</b>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 4.2 mi S of Holt	<u>Country:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.655936, -86.729417	<u>PLSS(T-R-S):</u> 2N-25-22	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Rattlesnake Bluff Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: 12,13,15  
Rt Approach Prism Fill: 0.75in  
Lt Approach Prism Fill: 2.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	4-6 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None.

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<h1>Loon Branch</h1>	<h2>sr-0414-r-006</h2>	<i>Sedimentation Risk Index</i> <h1>52</h1>
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<u>Common:</u> 6.3mi S of Harold	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Boiling Creek <u>GPS:</u> 30.568467, -86.867492	<u>PLSS(T-R-S):</u> 1N-26-29	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> RR 211- Eglin AFB	



Crossing Structure: DS



DS

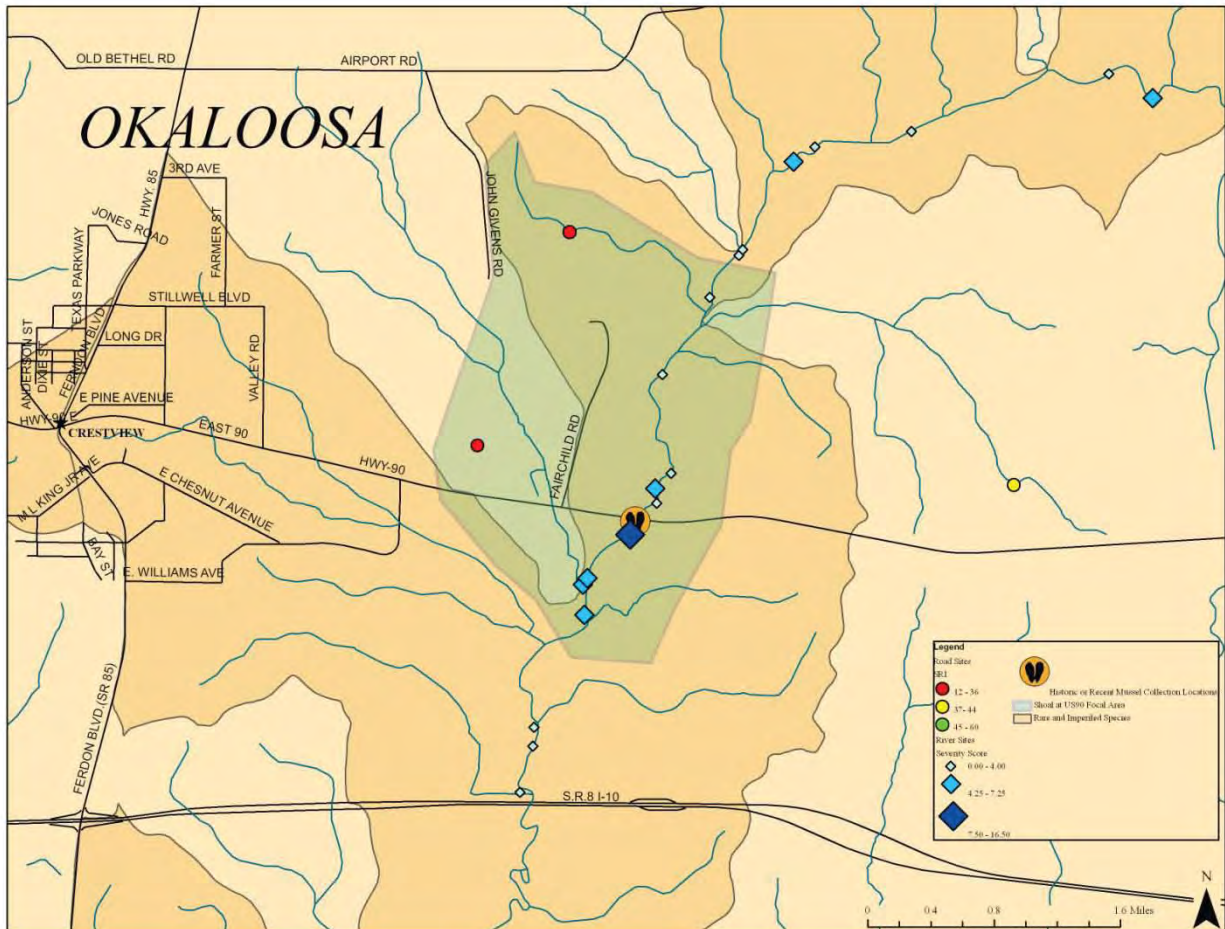
Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>52</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	7,21,23,34,40,46,47	
<i>Rt Approach Prism Fill:</i>	0.5in	
<i>Lt Approach Prism Fill:</i>	0.5in	





Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<b>Rare and Imperiled</b>	Yes	BLUENOSE SHINER, IRONCOLOR SHINER
<b>Land Use/Cover</b>	Yes	PUBLIC/SEMI-PUBLIC/ NA
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: None.

Appendix I. Shoal River at US-90 Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Shoal River		ok-0423-001		Severity Score <b>11</b>	
<i>Common:</i> 3.6mi E of Crestview, .01mi S of Hwy 90		<i>County:</i> Okaloosa		<i>State:</i> Florida	
<i>Drainage:</i> Yellow River <i>GPS:</i> 30.751625588,-86.510107894		<i>PLSS(T-R-S):</i> 3N-23W-14			
<i>Land owner:</i> RB: G.W. McLean Jr. LB: E. Aycock Jr./ K. & W. Manring/R. W. Alter/ R. Ward & L. Weasley/ JRW Investments LLC		<i>Parcel No.:</i> RB:2, LB:2.2/ 1.9/ 1.800/ 1.9001/ 2.2002			
					
RB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	In Recovery	1	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Mass-wasting	1.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER SPECKLED CHUB, IRONCOLOR SHINER
<i>BEHI</i>	Extreme-Very High	1	Land Use/ Cover	Yes	NA/ MDC-LOW DENSITY FIXED UNITS(FIXED&MOBILE)
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Present	1.5	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	None	0.75			
<b>River Threat Index:</b>		<b>11</b>			

Notes: Reach length is 2043 feet long. It is characterized by a lack of a riparian buffer on the right bank as seen on the aerial photo. Shoring structures used include rip rap and concrete. County road 90 bridge and a private boat launch is also located at this location. Houses located right on top of bank, some in disrepair/abandoned.

<b>Shoal River</b>	<b>ok-0423-003</b>	<i>Severity Score</i> <b>7</b>
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*Common:* 3.5mi E of Crestview, Piney Woods Creek confluence  
*Drainage:* Shoal River *GPS:* 30.747224508, -86.515099394  
*Land owner:* RB: Purl G Adams Jr. / LB: George & Essie Mack

*County:* Okaloosa *State:* Florida  
*PLSS(T-R-S):* 3N-23W-23  
*Parcel No.:* 1/ 1.0140





RB





Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303d	No	N/A
<i>Channel Alteration</i>	In Recovery	1	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	NA/ PINE FLATWOODS
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand and Coarse Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>7</b>			

Notes: Residence on left bank across from site. Site adjacent to power line crossing and below Hwy 90. Dead mussels found at this site. Live corbiculla also found.



Shoal River		ok-0423-004	Severity Score 6.5																																	
<u>Common:</u> 3.5mi SE of Crestview, 0.7mi DS of HWY 90 Bridge <u>Drainage:</u> Yellow River <u>GPS:</u> 30.744442, -86.514964 <u>Land owner:</u> RB: Purl G Adams Jr./ George & Essie Mack		<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-23 <u>Parcel No.:</u> 1/ 1.0140	<u>State:</u> Florida																																	
																																				
LB																																				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>Yes</td> <td>N/A</td> </tr> <tr> <td>Wetland Species Rare and Imperiled</td> <td>Yes</td> <td>1-3 FOCAL SPECIES IN UPLAND AREAS GOLDSTRIPE DARTER, SPECKLED CHUB IRONCOLOR SHINER</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>NA/ STREAMS AND WATERWAYS</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> <tr> <td colspan="3"><b>Additional Site Features</b></td> </tr> <tr> <td colspan="2"><u>Stream Channel Woody Material:</u></td> <td>Moderate</td> </tr> <tr> <td colspan="2"><u>Impoundments:</u></td> <td>None</td> </tr> <tr> <td colspan="2"><u>Substrate Composition:</u></td> <td>Medium Sand</td> </tr> <tr> <td colspan="2"><u>Bank Material:</u></td> <td>Sand and Roots</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	Yes	N/A	Wetland Species Rare and Imperiled	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS GOLDSTRIPE DARTER, SPECKLED CHUB IRONCOLOR SHINER	Land Use/ Cover	Yes	NA/ STREAMS AND WATERWAYS	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A	<b>Additional Site Features</b>			<u>Stream Channel Woody Material:</u>		Moderate	<u>Impoundments:</u>		None	<u>Substrate Composition:</u>		Medium Sand	<u>Bank Material:</u>		Sand and Roots
Feature	Within Range	Descriptive Field																																		
303(d)	Yes	N/A																																		
Wetland Species Rare and Imperiled	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS GOLDSTRIPE DARTER, SPECKLED CHUB IRONCOLOR SHINER																																		
Land Use/ Cover	Yes	NA/ STREAMS AND WATERWAYS																																		
Candidate Mussels	No	N/A																																		
Sturgeon C.H.	No	N/A																																		
<b>Additional Site Features</b>																																				
<u>Stream Channel Woody Material:</u>		Moderate																																		
<u>Impoundments:</u>		None																																		
<u>Substrate Composition:</u>		Medium Sand																																		
<u>Bank Material:</u>		Sand and Roots																																		
<i>Channel Stability</i>	Fair	1																																		
<i>Channel Alteration</i>	None	0																																		
<i>Bank Erosion</i>	Mass Wasting	1.5																																		
<i>BEHI</i>	High	1																																		
<i>Local NPSP</i>	No Evidence	0																																		
<i>Shoring Structures</i>	Not Present	0																																		
<i>Pipe Discharge</i>	Not Present	0																																		
<i>Water Odors</i>	Not Present	0																																		
<i>Fish Passage Barrier</i>	Not Present	0																																		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75																																		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75																																		
<i>RB: Floodplain Access</i>	None	0.75																																		
<i>LB: Floodplain Access</i>	None	0.75																																		
<b>River Threat Index:</b>		<b>6.5</b>																																		

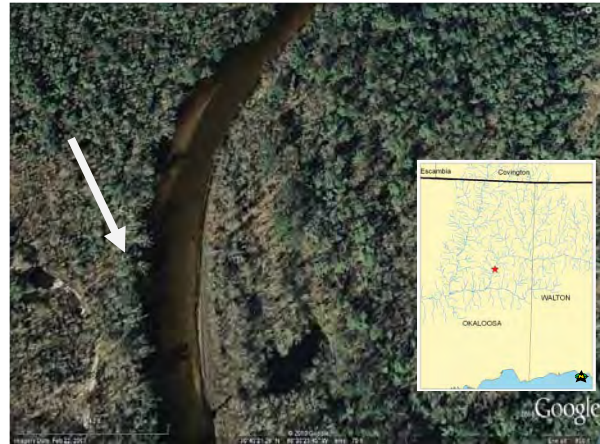
Notes: Located along an area of the Shoal that lacks sinuosity

Shoal River		ok-0616-008		Severity Score 4.5	
<u>Common:</u> 3.5mi W of Crestview		<u>County:</u> Okaloosa		<u>State:</u> Florida	
<u>Drainage:</u> Yellow River		<u>PLSS(T-R-S):</u> 3N-23W-23			
<u>Land owner:</u> George & Essie Mack- LB, Purl Adams Jr. -RB		<u>Parcel No.:</u> 1.014; 1.0			
					
RB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER,SPECKLED CHUB,IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	Yes	SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>4.5</b>			

Notes: Power line at site. Power lines lack any sort of buffer or fill. Shallow area of the Shoal.

<b>Shoal River</b>	<b>ok-0616-006</b>	<b>Severity Score</b> <b>4.5</b>
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Common: 3.8mi E of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.756023161, -86.507366581      PLSS(T-R-S): 3N-23W-13  
Land owner: Rita Chimiak      Parcel No.: 1



RB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Mass Wasting	1.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	Yes	SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100 + ft	0	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>4.5</b>			

Notes: Foot path along top of bank for public access to sand bars.

<b>Shoal River</b>	<b>ok-0616-005</b>	<i>Severity Score</i> <b>2.5</b>
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*Common:* 3.9mi E of Crestview      *County:* Okaloosa      *State:* Florida  
*Drainage:* Yellow River      *GPS:* 30.75743615, -86.50566681      *PLSS:* 3N-23W-11  
*Land owner:* Rita Chimiak      *Parcel No.:* 2



**RB**

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Slight	0.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>2.5</b>			

Notes: Aggradational site: Some localized deposition along top of low bank. Moderate number of deep pools. Erosion opposite depositional sites. Public access for recreation, trail leading to RB. OFW

<b>Shoal River</b>	<b>ok-0616-007</b>	<i>Severity Score</i> <b>3</b>
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Common: 3.8mi E of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.754689173, -86.507216269      PLSS(T-R-S): 3N-23W-13  
Land owner: Rita Chimiak      Parcel No.: 1



RB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	Not Eroding	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Slight	0.5	Candidate Mussels	Yes	SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>3</b>			

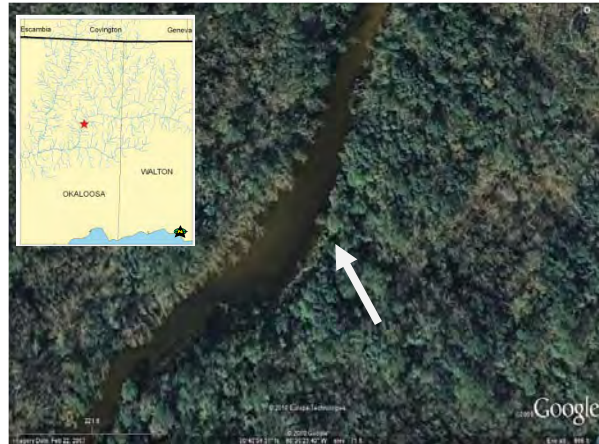
Notes: Public swimming area, trail leading from boat launch at CR 90. OFW

Shoal River	ok-0616-004	Severity Score 2.5
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Common: 3.8mi E of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.766514202, -86.506551301      PLSS: 3N-23W-12  
Land owner: Rita Chimiak      Parcel No.: 2



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>2.5</b>			

Notes: Lt bank evidence of clear cutting from aerial beyond buffer. OFW

Shoal River	ok-0616-003	Severity Score <b>2</b>
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<u>Common:</u> 4.2mi NE of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.7736074, -86.501451979	<u>PLSS:</u> 3N-23W-12	
<u>Land owner:</u> Rita Chimiak	<u>Parcel No.:</u> 2	



RB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>2</b>			

Notes: Unpaved road paralleling river 0.1mi E.      OFW.

<h1>Moccasin Branch</h1>	<h2>ok-1005-r-001</h2>	<i>Sedimentation Risk Index</i> <b>24</b>
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<p><u>Common:</u> 3.4mi NE of Crestview  <u>Drainage:</u> Shoal River <i>GPS:</i> 30.779656684, -86.516359725  <u>Land owner:</u> BCC (Board of County Commissioners); Okaloosa Airport Authority</p>	<p><u>County:</u> Okaloosa <u>State:</u> Florida  <u>PLSS(T-R-S):</u> 3N-23-11  <u>Parcel No.:</u> 3; 9  <u>Road Name:</u> Fairchild Rd</p>
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Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>24</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	12,13,37,43	
<i>Rt Approach Prism Fill:</i>	1.0in	
<i>Lt Approach Prism Fill:</i>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	NA/ CYPRESS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Excessive sediment loading and erosion coming from the road and outlets. Fence across US channel.



Unnamed tributary	ok-1005-r-004	Sedimentation Risk Index <b>30</b>
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Common: 3mi E of Crestview  
Drainage: Piney Woods Creek GPS: 30.760026254, -86.526285872  
Land owner: BCC-US, John & Cynthia Price-DS North, David & Carolyn McMillian DS South

County: Okaloosa  
PLSS(T-R-S): 3N-23-15  
Parcel No.: 1.0310, 49, 39  
Road Name: Hare Rd

State: Florida



Crossing Structure: US



US

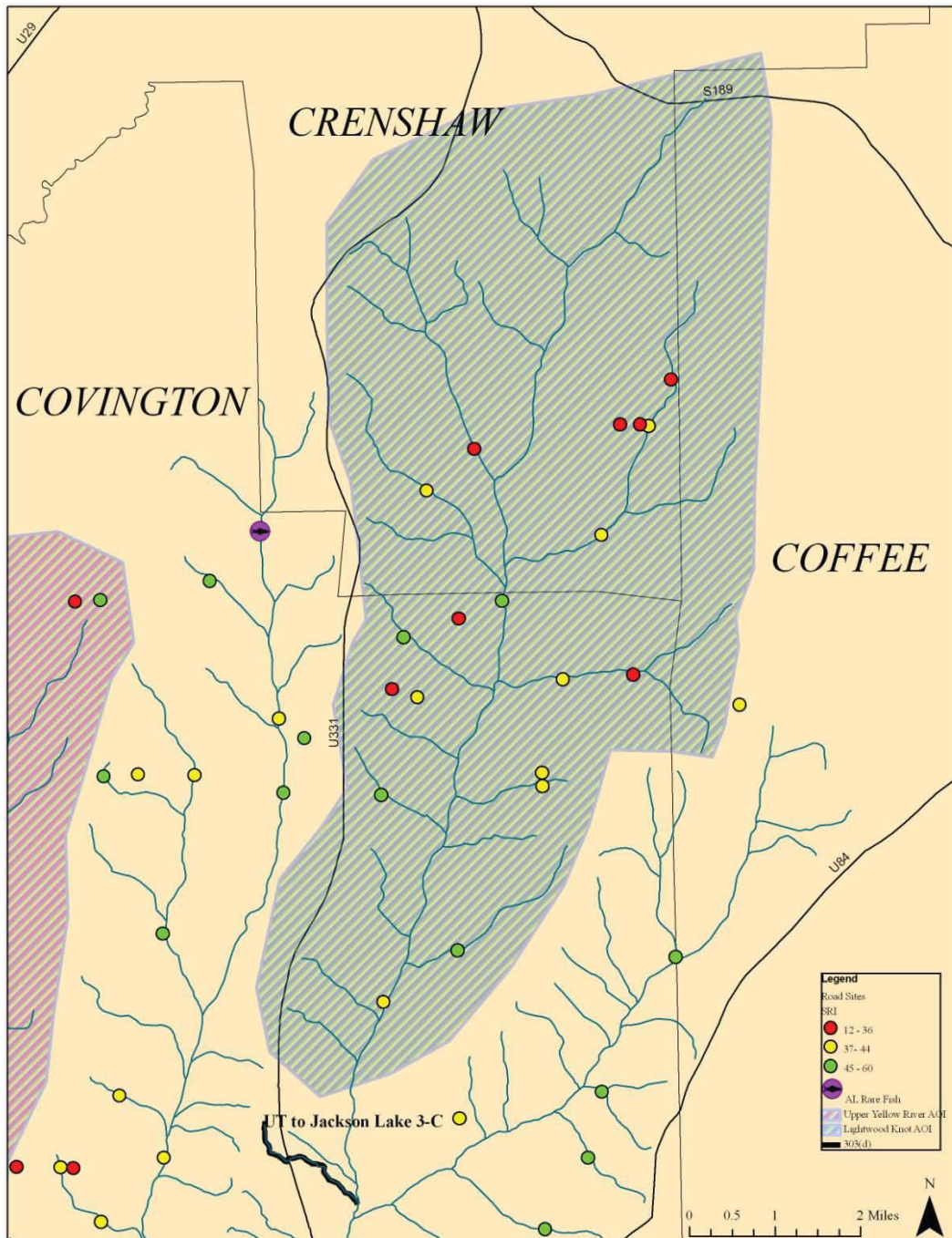
Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	6,12,13	
<i>Rt Approach Prism Fill:</i>	0.5in	
<i>Lt Approach Prism Fill:</i>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	PUBLIC/SEMI-PUBLIC/ WETLAND FOREST MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS drop off. US RT outlet contributing excessive sedimentation, also seen in aerial photo.

Appendix J. Lightwood Knot Area of Interest. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



<h1 style="margin:0;">Blaze Branch</h1>	<h2 style="margin:0;">cr-1103-r-002</h2>	<b>Sedimentation Risk Index</b> <h1 style="margin:0;">26</h1>
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<u>Common:</u> .56mi NW of Pine Level	<u>County:</u> Crenshaw	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.477386178,-86.195855819	<u>PLSS (T-R-S):</u> 6N-18E-24	
<u>Land owner:</u> Mildred Bozema	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Community Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Unimproved Outlet System	1
<b>Ditches Total</b>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>26</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert,1  
Crossing Materials: Metal  
Soil Types: Cf: 2,30,3 /Cr: Bba,Nse,TaB,Tac  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Impounded upstream, high DS bank alteration. Bare ditches and outlets also influencing score.

<h1 style="margin:0;">Blaze Branch</h1>	<h2 style="margin:0;">cr-1103-r-004</h2>	<i>Sedimentation Risk Index</i> <b style="font-size: 1.5em;">34</b>
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<u>Common:</u> 1.0mi SW of Pine Level <u>Drainage:</u> Lightwood Knot <i>GPS:</i> 31.469813150,-86.202034694 <u>Land owner:</u> Heath Kilcrease -US, Robert Jr. Kilcrease -DS	<u>County:</u> Crenshaw <u>PLSS (T-R-S):</u> 6N-18E-24/25 <u>Parcel No.:</u> 8,1 <u>Road Name:</u> Kilcrease Rd	<u>State:</u> Alabama
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Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>34</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert ,1  
Crossing Materials: Metal  
Soil Types: BbA,NsE,OrB,OrC,TaB  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Bare ditches and outlets influencing score. First order tributary.

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<h1>Unnamed tributary</h1>	<h2>co-1102-r-014</h2>	<b>Sedimentation Risk Index</b> <h1>36</h1>
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<u>Common:</u> 3.9mi E of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.437050631,-86.238183603	<u>PLSS (T-R-S):</u> 5N-18E-3	
<u>Land owner:</u> Patricia Armstead	<u>Parcel No.:</u> 8	
	<u>Road Name:</u> Bell Crossing Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>36</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: FuB, OrB, OrC, TrD

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Pond US, not visible from road. Bare soil ditches and outlets influencing score.

<p><u>Common:</u> 2.36mi NW of Danleys Crossing  <u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.4273,-86.20377  <u>Land owner:</u> D&amp;L M -US, Wilene Holmes -DS</p>	<p><u>County:</u> Covington <u>State:</u> Alabama  <u>PLSS (T-R-S):</u> 5N-18E-1  <u>Parcel No.:</u> 5.06, 5.01  <u>Road Name:</u> Cauley Rd</p>
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Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	F	1
<i>DS Channel Morph</i>	F	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Concrete	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	No	N/A
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge,1  
Crossing Materials: Rein. Concrete  
Soil Types: MBA, OrB, OrC, TrB, TrD  
Rt Approach Prism Fill: 0.20in  
Lt Approach Prism Fill: 0.10in

Notes: None.

<b>Unnamed Tributary</b>	<b>co-1104-r-003</b>	<b>Sedimentation Risk Index</b> <b>36</b>
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<u>Common:</u> 3.0mi NW of Friendship	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.425128352,-86.251514223	<u>PLSS (T-R-S):</u> 5N-18E-4	
<u>Land owner:</u> Collis Eaton-US, Quinion Kelley-DS	<u>Parcel No.:</u> 15.02.1	
	<u>Road Name:</u> Weaver Place	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Unimproved Outlet System	1
<b>Ditches Total</b>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>36</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: MBA, OrB, OrC, TrB, TrD  
Rt Approach Prism Fill: 0.15in  
Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<h1>Parker Creek</h1>	<h2>cr-1102-r-011</h2>	<i>Sedimentation Risk Index</i> <h1>36</h1>
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<u>Common:</u> 2.9mi SW of Pine Level	<u>County:</u> Crenshaw	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <i>GPS:</i> 31.465826148,-86.234935448	<u>PLSS (T-R-S):</u> 6N-18E-27	
<u>Land owner:</u> Rayonier Woodlands LLC c/o Darlene Edmondson	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Parker Creek Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Bridge,1

Crossing Materials: Wood

Soil Types: BbA,LcB,NsE,TaB

Rt Approach Prism Fill: 0.50in

Lt Approach Prism Fill: 0.50in

Notes: Bare ditches and outlets, high slopes and sediment input influencing score.

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<h1 style="margin:0;">Blaze Branch</h1>	<h2 style="margin:0;">cr-1103-r-005</h2>	<b style="font-size: small;">Sedimentation Risk Index</b> <h1 style="margin:0;">36</h1>
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<u>Common:</u> 1.2mi SW of Pine Level	<u>County:</u> Crenshaw	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <i>GPS:</i> 31.469551544, -86.205979180	<u>PLSS (T-R-S):</u> 6N-18E-25	
<u>Land owner:</u> Robert Beach -US, G.A. Lindsey -DS	<u>Parcel No.:</u> 2.001,3	
	<u>Road Name:</u> Kilcrease Rd	



Crossing Structure: DS	DS
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Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	A	5	
<i>DS Channel Morph</i>	B	5	
<i>DS Bank Alteration</i>	HIGH	1	
<i>Upstream Skew Angle</i>	<5°	5	
<i>Crossing fill condition</i>	Poor/Bare soil	1	
<i>Inlet/Outlet Condition</i>	Blocked	1	
<i>Road Approach Material</i>	All Sand/Clay	3	
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5	
<i>Approach Slope Mean</i>	2.1-4%	3	
<i>Soil K Factor</i>	<0.20	5	
<i>Upstream Rt Outlet</i>	Bare soil	0	
<i>Upstream Lt Outlet</i>	Bare soil	0	
<i>Upstream Rt Ditch</i>	Bare soil	0	
<i>Upstream Lt Ditch</i>	Bare soil	0	
<i>Downstream Rt Outlet</i>	Bare soil	0	
<i>Downstream Lt Outlet</i>	Bare soil	0	
<i>Downstream Rt Ditch</i>	Bare soil	0	
<i>Downstream Lt Ditch</i>	Bare soil	0	
<i>Outlet Total</i>	Unimproved Outlet System	1	
<i>Ditches Total</i>	Unimproved Drainage System	1	
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>	
<b>Additional Site Features</b>			
<i>Crossing Type and Quantity:</i>	Culvert,2		
<i>Crossing Materials:</i>	Reinforced Concrete		
<i>Soil Types:</i>	LcB,NsE,OrB,SpD2,TaB		
<i>Rt Approach Prism Fill:</i>	0.1in		
<i>Lt Approach Prism Fill:</i>	0.25in		

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A



Notes: Eroding slope Lt approach. Blocked culverts from bare soil and ditches influencing score.

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Unnamed tributary	co-1103-r-009	Sedimentation Risk Index <b>38</b>
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Common: 1.0mi NW of Friendship  
Drainage: Lightwood Knot GPS: 31.410757692,-86.221951825  
Land owner: Miriam Barlow East, James & Dorothy Birge West

County: Covington  
PLSS (T-R-S): 5N-18E-14  
Parcel No.: 1,2  
Road Name: Barlow Rd

State: Alabama



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert,1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	MBA, OrC, OrE, TrD
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Bare fill, mostly bare ditches and outlets influencing score.

<b>Unnamed tributary</b>	<b>co-1104-r-004</b>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> 2.8mi NW of Friendship	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot GPS: 31.423688286,-86.246453020	<u>PLSS (T-R-S):</u> 5N-18E-5	
<u>Land owner:</u> Johnny & Barbara Donaldson	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Weaver Place	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	DA	3
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Fair/Rip Rap	3
Inlet/Outlet Condition	Blocked	1
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	<2%	5
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Bare soil	0
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Bare soil	0
Downstream Lt Outlet	Bare soil	0
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Unimproved Outlet System	1
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert,2  
Crossing Materials: Metal  
Soil Types: MBA,Orc,TrB,TrD  
Rt Approach Prism Fill: 0.10in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ ROW CROP
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap in channel causing partial fish passage barrier. Draining into DS impoundment 0.25mi East.

<b>Blaze Branch</b>	<b>cr-1103-r-003</b>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> .92mi SW of Pine Level	<u>County:</u> Crenshaw	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <i>GPS:</i> 31.469495863,-86.2003131158	<u>PLSS (T-R-S):</u> 6N-18E-25	
<u>Land owner:</u> Bryan Hubery Ray Jr & William Payne -US, Robert Jr. Kilcrease -DS	<u>Parcel No.:</u> 1.01, 1	
	<u>Road Name:</u> Kilcrease Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Rip Rap	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Rip Rap	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Reinforced Concrete

Soil Types: BbA, NsE, OrB, OrC, TaB

Rt Approach Prism Fill: 0.1in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB(CLEAR CUT), PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: High sediment loading from DS outlets.

Unnamed tributary	cf-1103-r-008	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 1.0mi NE of Danleys Crossroads	<u>County:</u> Coffee	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.42209700,-86.182725070	<u>PLSS (T-R-S):</u> 5N-19-07	
<u>Land owner:</u> G.A. Lindsey	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> CR 374	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Sturgeon Spawning	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert,2
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	7,8,21,22
<u>Rt Approach Prism Fill:</u>	0.15in
<u>Lt Approach Prism Fill:</u>	0.15in

Notes: Garbage DS; culverts coming from 2 different angles US.

Restoration Recommendations: TBD

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Unnamed tributary		co-1103-r-010	Sedimentation Risk Index <b>40</b>																					
<u>Common:</u>	1.0mi NW of Friendship	<u>County:</u>	Covington																					
<u>Drainage:</u>	Lightwood Knot <u>GPS:</u> 31.408498105,-86.221840842	<u>PLSS (T-R-S):</u>	5N-18E-14																					
<u>Land owner:</u>	Miriam Barlow East, James & Dorothy BirgeWest	<u>Parcel No.:</u>	1,2																					
		<u>Road Name:</u>	Barlow Rd																					
<u>State:</u>	Alabama																							
																								
Crossing Structure: US		DS																						
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>																						
<i>US Channel Morph</i>	DA	3																						
<i>DS Channel Morph</i>	DA	3																						
<i>DS Bank Alteration</i>	HIGH	1																						
<i>Upstream Skew Angle</i>	<5°	5																						
<i>Crossing fill condition</i>	Good/Vegetated	5																						
<i>Inlet/Outlet Condition</i>	No Impairment	5																						
<i>Road Approach Material</i>	All Sand/Clay	3																						
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3																						
<i>Approach Slope Mean</i>	2.1-4%	3																						
<i>Soil K Factor</i>	<0.20	5																						
<i>Upstream Rt Outlet</i>	Vegetated	1																						
<i>Upstream Lt Outlet</i>	Vegetated	1																						
<i>Upstream Rt Ditch</i>	Bare soil	0																						
<i>Upstream Lt Ditch</i>	Bare soil	0																						
<i>Downstream Rt Outlet</i>	Bare soil	0																						
<i>Downstream Lt Outlet</i>	Bare soil	0																						
<i>Downstream Rt Ditch</i>	Bare soil	0																						
<i>Downstream Lt Ditch</i>	Bare soil	0																						
<i>Outlet Total</i>	Partially Improved Outlet System	3																						
<i>Ditches Total</i>	Unimproved Drainage System	1																						
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>																						
																								
<b>Additional Site Features</b>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon Spawning</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>			Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Sturgeon Spawning	No	N/A	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A
Feature	Within Range	Descriptive Field																						
303(d)	No	N/A																						
Wetland Species	No	N/A																						
Rare and Imperiled	No	N/A																						
Sturgeon Spawning	No	N/A																						
Candidate Mussels	No	N/A																						
Sturgeon C.H.	No	N/A																						
<u>Crossing Type and Quantity:</u>	Bridge, 1																							
<u>Crossing Materials:</u>	Reinforced Concrete																							
<u>Soil Types:</u>	MBA, OrB, OrC, OrE, TrB, TrD																							
<u>Rt Approach Prism Fill:</u>	0.5in																							
<u>Lt Approach Prism Fill:</u>	0.75in																							

Notes: Mostly bare ditches and outlets, bank alteration influencing score.

<b>Mill Creek</b>	<b>co-1103-r-011</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 1.71mi NW of Friendship	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.426644644,-86.217687921	<u>PLSS (T-R-S):</u> 5N-18E-2	
<u>Land owner:</u> Levon Pitts	<u>Parcel No.:</u> 8	
	<u>Road Name:</u> Fox Den Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: MBA, OrE, TrB, TrD  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Sturgeon Spawning	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

<h1 style="margin:0;">Pigpen Creek</h1>	<h2 style="margin:0;">cr-1102-r-012</h2>	<i>Sedimentation Risk Index</i> <h1 style="margin:0;">42</h1>
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<u>Common:</u> 3.6mi SW of Pine Level	<u>County:</u> Crenshaw	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.458812845,-86.244201161	<u>PLSS (T-R-S):</u> 6N-18E-28	
<u>Land owner:</u> Doris Mitchell Halacker	<u>Parcel No.:</u> 9	
	<u>Road Name:</u> Settlement Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Rip Rap	1
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Rip Rap	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Reinforced Concrete

Soil Types: BbA, DoB, NsE, OrB, TaB

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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# Lightwood Knot Creek

co-1103-r-018

Sedimentation Risk Index

**44**

Common: 3.5mi SW of Friendship  
Drainage: Yellow River *GPS:* 31.372027985,-86.253615927  
Land owner: Emily Carr -US, James Carr -DS

County: Covington  
PLSS (T-R-S): 5N-18E-28  
Parcel No.: 1.04, 1  
Road Name: Union Grove Rd

State: Alabama



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: BbA, TaC  
Rt Approach Prism Fill: 0.05in  
Lt Approach Prism Fill: 0.05in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

<h1 style="margin:0;">Blaze Branch</h1>	<h2 style="margin:0;">cr-1103-r-006</h2>	<i>Sedimentation Risk Index</i> <b style="font-size: 1.5em;">44</b>
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<u>Common:</u> 2.18mi SW of Pine Level	<u>County:</u> Crenshaw	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.451029824,-86.209858693	<u>PLSS (T-R-S):</u> 6N-18E-36	
<u>Land owner:</u> John E Bozeman	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Morgan Mill Creek Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Reinforced Concrete

Soil Types: BbA, NsE, TaB

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY, EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Well vegetated buffers. Bare ditches influencing score, with moderate erodible soils.

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<b>Jolly Creek</b>	<b>co-1102-r-015</b>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 3.2mi SE of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.433975, -86.249119	<u>PLSS (T-R-S):</u> 5N-18E-4	
<u>Land owner:</u> B & N Kilpatrick	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> Bell Crossing Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Sturgeon Spawning	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge,1  
Crossing Materials: Reinforced Concrete  
Soil Types: FuB,LuB,MBA,OrB,OrC,OrE,TrD  
Rt Approach Prism Fill: 0.10in  
Lt Approach Prism Fill: 0.10in

Notes: Loaded with clay.

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Unnamed tributary	co-1104-r-002	Sedimentation Risk Index <b>46</b>
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<u>Common:</u> 2.8mi NW of Friendship	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <i>GPS:</i> 31.407215305,-86.253754894	<u>PLSS (T-R-S):</u> 5N-18E-16	
<u>Land owner:</u> Hillary Brannen & Nancy Chalker	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> HDC Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	CdC, DmB, LuB, MBA, OrC, OrE, TrD
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap in downstream creating partial fish passage barrier.

Unnamed tributary	co-1104-r-001	Sedimentation Risk Index <b>48</b>
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<u>Common:</u> 2.5mi SW of Friendship	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.380717333, -86.238880743	<u>PLSS (T-R-S):</u> 5N-18E-27	
<u>Land owner:</u> Edward & Janie Clark	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Old Boggy Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge,1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	MBA,OrB,OrE,TrB,TrD
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Road is primary sediment source.

<h1 style="margin:0;">Lightwood Knot Creek</h1>	<h2 style="margin:0;">co-1102-r-013</h2>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 4.4mi E of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.440008403,-86.229630273	<u>PLSS (T-R-S):</u> 5N-18E-3	
<u>Land owner:</u> H&MM North, Willis Powell South	<u>Parcel No.:</u> 1.01, 1	
	<u>Road Name:</u> Hudson Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>50</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge,1  
Crossing Materials: Reinforced Concrete  
Soil Types: MBA,OrE,TrB,TrD  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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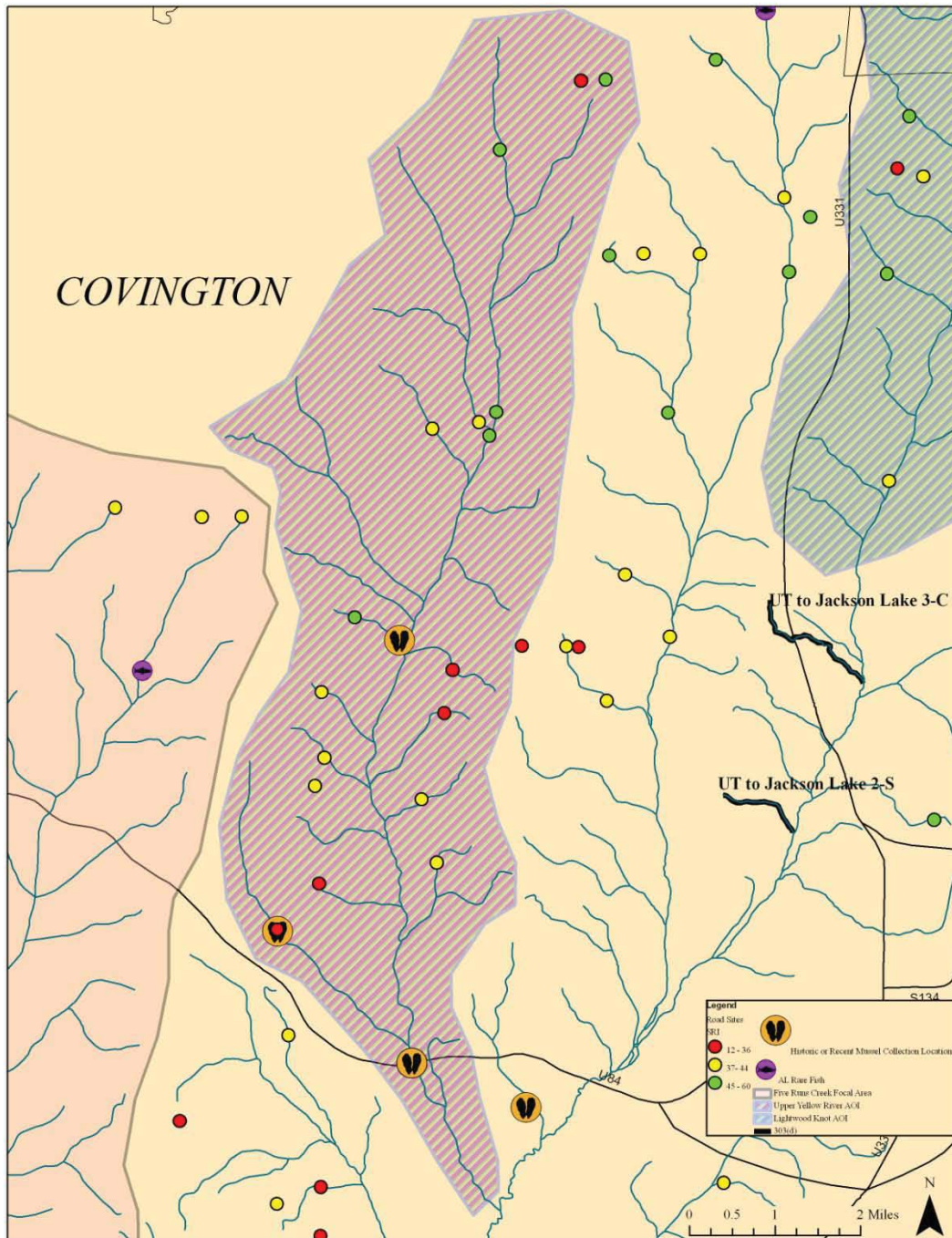


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Appendix K. Upper Yellow River Area of Interest. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



<b>Unnamed tributary</b>	<b>co-1029-r-010</b>	<i>Sedimentation Risk Index</i> <b>24</b>
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<u>Common:</u> 12.4mi NE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.417385034, -86.315982289	<u>PLSS (T-R-S):</u> 5N-17E-11	
<u>Land owner:</u> JJ & Agnes Guy -US, Clayton Floyd -DS	<u>Parcel No.:</u> 15; 14	
	<u>Road Name:</u> Oliver Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>24</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Unknown

Soil Types: CdC, DmB, EsC, MBA, OrB, OrC

Rt Approach Prism Fill: 0.1in

Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Buried culvert. Drainage from US pond, runs down ditch then crosses under the road.

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<b>Sasser Branch</b>	<b>co-1027-r-003</b>	<b>Sedimentation Risk Index</b> <b>30</b>
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<u>Common:</u> 6.2mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.333167504, -86.341881837	<u>PLSS (T-R-S):</u> 4N-17E-10	
<u>Land owner:</u> Dallas Henderson -DS, C&L Caldwell -US	<u>Parcel No.:</u> 5; 3	
	<u>Road Name:</u> Sasser Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: CdB, CdC, FuB, MBA, OrE

Rt Approach Prism Fill: 1.25in

Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across US. High velocity flow. Undersized culvert.

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Unnamed tributary	co-1027-r-004	Sedimentation Risk Index <b>32</b>
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<u>Common:</u> 6.4mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.340281813, -86.340114564	<u>PLSS (T-R-S):</u> 4N-17E-3	
<u>Land owner:</u> Dallas Henderson -DS, B&J Sasser -US	<u>Parcel No.:</u> 8; 28	
	<u>Road Name:</u> Sasser Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert,2

Crossing Materials: Metal

Soil Types: BoB,CdB,CdC,LuB,MBA,OrC,OrE

Rt Approach Prism Fill: 0.75in

Lt Approach Prism Fill: 0.75in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Recently ponded by land owner (Personal communication).

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Unnamed tributary	co-1102-r-002	Sedimentation Risk Index <b>32</b>
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<u>Common:</u> 0.6mi W of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River GPS: 31.440360781,-86.314030647	<u>PLSS (T-R-S):</u> 6N-17E-35	
<u>Land owner:</u> B&N Moore- US & G Hammett - DS	<u>Parcel No.:</u> 14.2	
	<u>Road Name:</u> Driver Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	F	1
DS Bank Alteration	HIGH	1
Upstream Skew Angle	5-30°	3
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	Sed Islands/Scouring	3
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Bare soil	0
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Bare soil	0
Downstream Lt Outlet	Bare soil	0
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Unimproved Outlet System	1
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert,1  
Crossing Materials: Synthetic  
Soil Types: BoB,CdC,DmB,MBA,OrB,OrC,OrE  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS highly channelized.

<h1>Hollis Creek</h1>	<h2>co-0907-r-001</h2>	<i>Sedimentation Risk Index</i> <b>36</b>
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<p><u>Common:</u> 7.1mi W of Opp  <u>Drainage:</u> Yellow River <i>GPS:</i> 31.296459097, -86.375007419  <u>Land owner:</u> Vera Worley &amp; Norma King Heris -US, Stan Lanzo -DS</p>	<p><u>County:</u> Covington <u>State:</u> Alabama  <u>PLSS (T-R-S):</u> 4N-17E-20  <u>Parcel No.:</u> 5; 5.01  <u>Road Name:</u> Houston Crossing</p>
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Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Reinforced Concrete	
<i>Soil Types:</i>	CdC,FuB,LuB,MBA,OrB,OrC,OrE	
<i>Rt Approach Prism Fill:</i>	0.25in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	Yes	SOUTHERN KIDNEYSHELL
Sturgeon C.H.	No	N/A

Notes: Railroad crossing directly DS

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Unnamed tributary	co-0907-r-002	Sedimentation Risk Index <b>36</b>
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<u>Common:</u> 6.7mi W of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.304222211, -86.366880548	<u>PLSS (T-R-S):</u> 4N-17E-20	
<u>Land owner:</u> Ralph & Annie Tillman -US, Terry Taylor -DS	<u>Parcel No.:</u> 2;6	
	<u>Road Name:</u> Houston Crossing	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	A	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>36</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	CdB,CdC,FuB,MBA
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ OPEN WATER (FRESH)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

<b>Bear Branch</b>	<b>co-0907-r-005</b>	<b>Sedimentation Risk Index</b> <b>38</b>
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<u>Common:</u> 7.5mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.336845526, -86.366109608	<u>PLSS (T-R-S):</u> 4N-17E-5	
<u>Land owner:</u> Kelly & Joan Campbell -US, Smith Family Tr. -DS	<u>Parcel No.:</u> 1.03; 12	
	<u>Road Name:</u> Old Dragstrip Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoC,CdB,CdC,FuB,MBA,OrC  
Rt Approach Prism Fill: 0.2in  
Lt Approach Prism Fill: 0.2in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap in stream bed.

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<b>Unnamed tributary</b>	<b>co-0907-r-004</b>	<b>Sedimentation Risk Index</b> <b>40</b>
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<u>Common:</u> 7.2mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.325623005, 31.325623005	<u>PLSS (T-R-S):</u> 4N-17E-8	
<u>Land owner:</u> Freida Mancil-US, T. Burnell & W. Wells -DS	<u>Parcel No.:</u> 6; 5	
	<u>Road Name:</u> Old Dragstrip Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MOD
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: CdC,MBA,OrB,OrC,OrE  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.5in

Notes: Trash in outlets.

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Unnamed tributary	co-0907-r-003	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 7.1mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.320859074, -86.367395487	<u>PLSS (T-R-S):</u> 4N-17E-17	
<u>Land owner:</u> Bonnie Worley, Tr. -US, Roy Jr. & Sybil Weaver -DS	<u>Parcel No.:</u> 2; 1	
	<u>Road Name:</u> Old Dragstrip Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: PVC

Soil Types: CdB, CdC, FuB, MBA, OrB, OrC

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Excessive erosion over culvert.



Unnamed tributary	co-1027-r-002	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 5.9mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River GPS: 31.318371094, -86.346232084	<u>PLSS (T-R-S):</u> 4N-17E-16/15	
<u>Land owner:</u> Kenneth & Martha Ward -DS, J&C Hawkins -US	<u>Parcel No.:</u> 1; 4.01	
	<u>Road Name:</u> Homer Smith Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	No Impairment	5
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	>40 y <sup>3</sup>	1
Approach Slope Mean	>4%	1
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Bare soil	0
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: CdB, CdC, FuB, MBA, OrC, OrE

Rt Approach Prism Fill: 1.0in

Lt Approach Prism Fill: 0.75in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

<h1 style="margin:0;">Faegins Creek</h1>	<h2 style="margin:0;">co-1029-r-003</h2>	<b>Sedimentation Risk Index</b> <h1 style="margin:0;">42</h1>
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<p><u>Common:</u> 10.1mi NE of Andalusia  <u>Drainage:</u> Yellow River <i>GPS:</i> 31.382492870, -86.334532485  <u>Land owner:</u> Tray Creane &amp; Brett Riley</p>	<p><u>County:</u> Covington  <u>PLSS (T-R-S):</u> 5N-17E-22  <u>Parcel No.:</u> 4  <u>Road Name:</u> Lord Hill Rd</p>	<p><u>State:</u> Alabama</p>
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Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	D	1
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: MBA, OrC, OrE, TrD  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	N/A/ PASTURE/HAY, EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MOD
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: Close proximity to YR main stem.

Unnamed tributary	co-1027-r-001	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 5.5mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.307672065, -86.34341173	<u>PLSS (T-R-S):</u> 4N-17E-15	
<u>Land owner:</u> L & C Smith –US West, B&T Turner –US East, Jaunice Dreading -DS	<u>Parcel No.:</u> 8.01; 10.04; 6.03	
	<u>Road Name:</u> Homer Smith Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: BnB, CdB, CdC, MBA, OrB, OrC, OrE

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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Unnamed tributary	co-1029-r-002	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 9.6mi NE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.381445735, -86.343918727	<u>PLSS (T-R-S):</u> 5N-17E-22	
<u>Land owner:</u> Douglas & Mary Brooks -US, James & Jeannette Odom - DS	<u>Parcel No.:</u> 38; 3	
	<u>Road Name:</u> Southwind Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	HIGH	1
Upstream Skew Angle	5-30°	3
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	No Impairment	5
Road Approach Material	All Aggregate	5
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	>4%	1
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
<b>Outlet Total</b>	Partially Improved Outlet System	<b>3</b>
<b>Ditches Total</b>	Unimproved Drainage System	<b>1</b>
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: CdC,DmB,FoA,LuB,MBA,OrB,OrC  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Notes: None

<b>Unnamed tributary</b>	<b>co-1102-r-003</b>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 0.3mi W of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.440543141,-86.309126676	<u>PLSS (T-R-S):</u> 6N-17E-36	
<u>Land owner:</u> Bessie Langford North, J & A Gray South	<u>Parcel No.:</u> 16, Unknown	
	<u>Road Name:</u> Driver Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge,1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	BoB,CdC,DmB,MBA,OrB,OrC,OrE
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	1.00in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Surface oils and anaerobic smell

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<b>Yellow River</b>	<b>co-1102-r-001</b>	<b>Sedimentation Risk Index</b> <b>48</b>
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<u>Common:</u> 1.8mi SW of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.428717623,-86.330150140	<u>PLSS (T-R-S):</u> 6N-17E-35	
<u>Land owner:</u> Royce & Barbara Harrison-US, W&T Mitchell –DS East, Lucky Hack – DS West	<u>Parcel No.:</u> Unknown	
	<u>Road Name:</u> Prestwood Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge,1  
Crossing Materials: Reinforced Concrete  
Soil Types: MBA,OrB,OrC,OrE,TrD  
Rt Approach Prism Fill: 0.10in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<b>Yellow River</b>	<b>co-1029-r-001</b>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 10.2mi NE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Blackwater Bay <i>GPS:</i> 31.380043682, -86.332556256	<u>PLSS (T-R-S):</u> 5N-17E-27	
<u>Land owner:</u> Billy Henderson -US, Doris Henderson -DS	<u>Parcel No.:</u> 1.01; 1	
	<u>Road Name:</u> Southwind Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: MBA, OrB, OrC, OrE, TrD  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 0.25in

Notes: Public access path leading to DS LT outlet.

<b>Unnamed tributary</b>	<b>co-1029-r-005</b>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 7.8mi NE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.349427806, -86.359341040	<u>PLSS (T-R-S):</u> 4N-17E-4	
<u>Land owner:</u> Smith Family, Tr. -US, W.H. Lola Owens-DS	<u>Parcel No.:</u> 2; 3.41	
	<u>Road Name:</u> E.J. Ready Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: CdB, MDB, OrB, OrC, OrE  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<h1>Yellow River</h1>	<h2>co-1029-r-004</h2>	<i>Sedimentation Risk Index</i> <h1>52</h1>
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<u>Common:</u> 10.4mi NE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Blackwater Bay <i>GPS:</i> 31.384186700, -86.331219659	<u>PLSS (T-R-S):</u> 5N-17E-22	
<u>Land owner:</u> Billy Henderson & Rite Odom	<u>Parcel No.:</u> 5	
	<u>Road Name:</u> Lord Hill Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>52</b>



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	N/A/ PASTURE/HAY, DEVELOPED OPEN SPACE
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: Mba, OrC, OrE, TrD  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.15in

Notes: None

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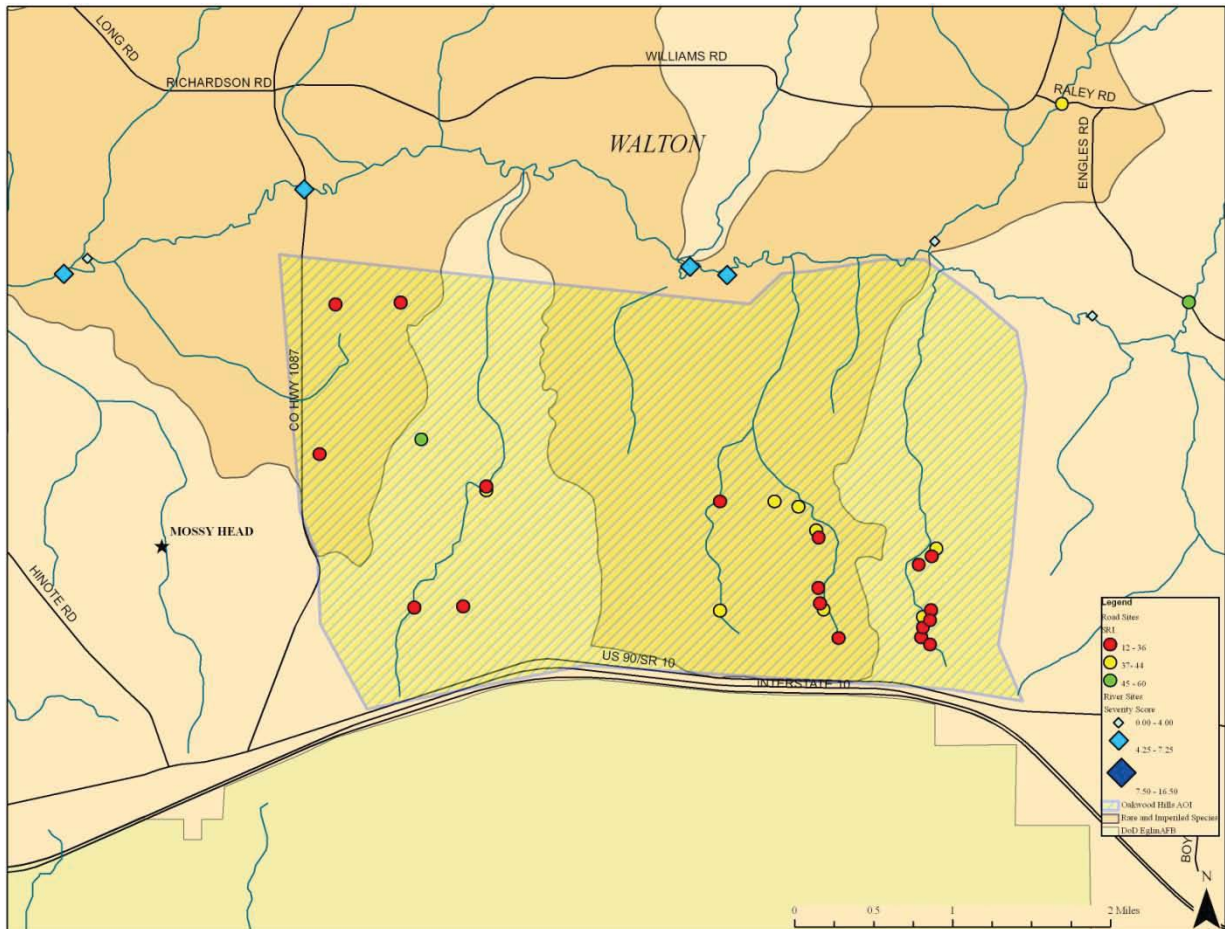


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Appendix L. Oakwood Hills Area of Interest. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



<h1>Battle Creek</h1>	<h2>wa-0707-r-002</h2>	<b>Sedimentation Risk Index</b> <h1>22</h1>
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<p><u>Common:</u> 2.3mi NE of Mossy Head  <u>Drainage:</u> Shoal River <span style="float: right;"><u>GPS:</u> 30.767642, -86.288075</span>  <u>Land owner:</u> Anthony &amp; Deborah Farrantello-DS, Marie Berry-US</p>	<p><u>County:</u> Walton <span style="float: right;"><u>State:</u> Florida</span>  <u>PLSS(T-R-S):</u> 3N-20-07  <u>Parcel No.:</u> 21.0011;020.0010  <u>Road Name:</u> Unpaved road off Squire Way</p>
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Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	D	1
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>22</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	8,17,31,33,34	
<i>Rt Approach Prism Fill:</i>	6.0in	
<i>Lt Approach Prism Fill:</i>	5.0in	



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	VACANT RESIDENTIAL/ HYDRIC PINE FLATWOODS
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: Not sure if this is a county maintained road.

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<h1>Unnamed tributary</h1>	<h2>wa-0707-r-005</h2>	<b>Sedimentation Risk Index</b> <h1>22</h1>
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<u>Common:</u> 2.0mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Adam's Mill Creek <u>GPS:</u> 30.770678, -86.305817	<u>PLSS(T-R-S):</u> 3N-21-12	
<u>Land owner:</u> Richard & Monica Mason-US, Derek & Byron Rawles-DS	<u>Parcel No.:</u> 2.021; 2.020	
	<u>Road Name:</u> Mill Creek Dr.	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	F	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>22</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, GOLDSTRIPE DARTER, IRONCOLOR SHINER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: 8,33,34

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 1.5in

Notes: Metal culvert buried into the woods DS- not pictured. Road Closed due to extreme erosion

<b>Unnamed tributary</b>	<b>wa-0707-r-007</b>	<b>Sedimentation Risk Index</b> <b>30</b>
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<p><u>Common:</u> 3.1mi NE of Mossy Head  <u>Drainage:</u> Adams Mill Creek <u>GPS:</u> 30.784610  <u>Land owner:</u> Donald &amp; Sharon Richardson-US, William &amp; Amaryliss Tinsley-DS</p>	<p><u>County:</u> Walton <u>State:</u> Florida  <u>PLSS(T-R-S):</u> 3N-21-01  <u>Parcel No.:</u> 2.002, 1.002  <u>Road Name:</u> Adams Branch Rd</p>
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Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>30</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	PVC	
<i>Soil Types:</i>	13,14,15,31	
<i>Rt Approach Prism Fill:</i>	1.0in	
<i>Lt Approach Prism Fill:</i>	1.0in	



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
<b>Land Use/ Cover</b>	Yes	PARCELS WITH NO VALUES/ WETLAND FORESTED MIX
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: Fencing across US.

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<h1>Unnamed tributary</h1>	<h2>wa-0716-r-009</h2>	<b>Sedimentation Risk Index</b> <h1>26</h1>
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<u>Common:</u> 3.5mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.766093, -86.263208	<u>PLSS(T-R-S):</u> 3N-20-08-28000	
<u>Land owner:</u> David Caldwell & Paul Wolfe	<u>Parcel No.:</u> 4.0180	
	<u>Road Name:</u> Trout Dr	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>26</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	8,17,18,33
<u>Rt Approach Prism Fill:</u>	1.0in
<u>Lt Approach Prism Fill:</u>	1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ RESERVOIRS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 2 culverts discharging in different directions- also, different materials and sizes.

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Unnamed tributary	wa-0707-r-006	Sedimentation Risk Index <b>30</b>
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<u>Common:</u> 2.9mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Adams Mill Creek <u>GPS:</u> 30.784486, -86.304017	<u>PLSS(T-R-S):</u> 3N-21-01	
<u>Land owner:</u> Wax Aero Acres LLC- US, Mildred & James Courtney- DS	<u>Parcel No.:</u> 2; 1	
	<u>Road Name:</u> Adams Branch Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	D	1
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	PARCELS WITH NO VALUES AGRICULTURAL /HAY FIELDS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: 2,35

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 0.75in

Notes: None

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<h1 style="margin:0;">Gum Creek</h1>	<h2 style="margin:0;">wa-0727-r-006</h2>	<b>Sedimentation Risk Index</b> <h1 style="margin:0;">32</h1>
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<p><u>Common:</u> 4.5mi E of Mossy Head  <u>Drainage:</u> Shoal River <i>GPS:</i> 30.752828298, -86.240921785  <u>Land owner:</u> Capital Funding Enterprises</p>	<p><u>County:</u> Walton <u>State:</u> Florida  <u>PLSS (T-R-S):</u> 3N-20-16-28060  <u>Parcel No.:</u> 7; 4.80350  <u>Road Name:</u> Blue Ridge Blvd</p>
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Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Unimproved Outlet System	1
<b>Ditches Total</b>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 8,17,18,33,36  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Notes: Failing BMPs DS. DS Drop off.

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<h1>Unnamed tributary</h1>	<h2>wa-0716-r-002</h2>	<i>Sedimentation Risk Index</i> <b>32</b>
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<u>Common:</u> 3.9mi E of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.753471,-86.250669	<u>PLSS(T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> Claude Santer- US East, Ruth G Davenport Trust-US	<u>Parcel No.:</u> 24.0080; 24.0060; 25.0010	
West, Chester & Louise Chambers-DS	<u>Road Name:</u> W. Dogwood Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: PVC

Soil Types: 17,18

Rt Approach Prism Fill: 0.1in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: BMPs installed

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<b>Unnamed tributary</b>	<b>wa-0707-r-004</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 1.7mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Battle Creek <i>GPS:</i> 30.756608, -86.290619	<u>PLSS:</u> 18-3N-20	
<u>Land owner:</u> Kelly Wise-US, Raymond & Sara Sinclair-DS	<u>Parcel No.:</u> 16.007, 16.001	
	<u>Road Name:</u> Unknown road- power line crossing	



Crossing Structure: Rt Approach



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Ford, 1	
<i>Crossing Materials:</i>	Native Soil	
<i>Soil Types:</i>	34	
<i>Rt Approach Prism Fill:</i>	2.5in	
<i>Lt Approach Prism Fill:</i>	2.0in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	ACREAGE NOT ZONED FOR AGRICULTURE/ RESERVOIRS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: ATV trail

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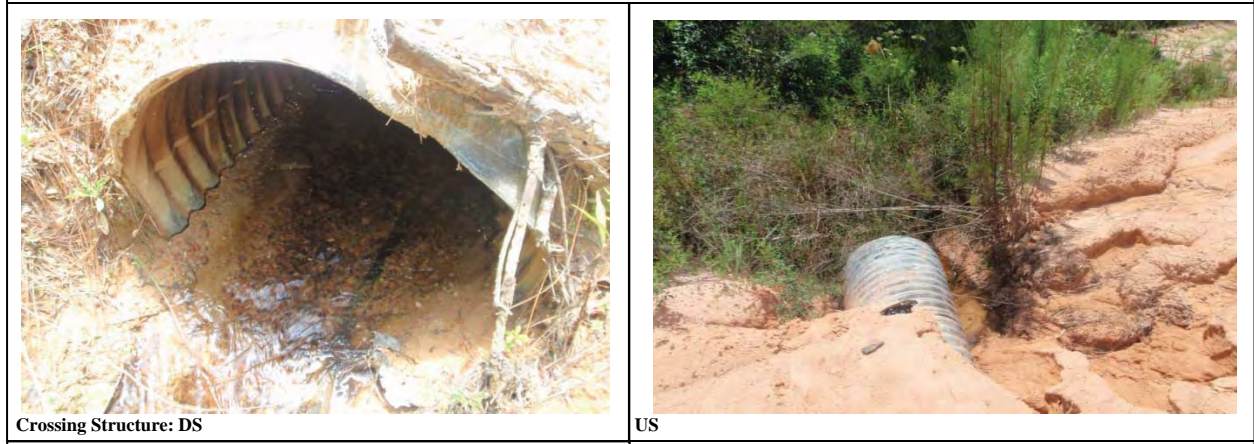
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<b>Unnamed tributary</b>	<b>wa-0727-r-002</b>	<b>Sedimentation Risk Index</b> <b>32</b>
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<p><u>Common:</u> 4.6mi E of Mossy Head  <u>Drainage:</u> Gum Creek <i>GPS:</i> 30.760919817, 30.760919817  <u>Land owner:</u> Grabers Excavating- DS, David and Dorene McDonald- US</p>	<p><u>County:</u> Walton <u>State:</u> Florida  <u>PLSS (T-R-S):</u> 3N-20-16-28060  <u>Parcel No.:</u> 07.70170; 06.80700  <u>Road Name:</u> Blue Ridge Blvd</p>
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Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>32</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	17,18,33,35
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	VACANT RESIDENTIAL/ UNIMPROVED PASTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US culvert too high- all flow cannot reach its inlet.

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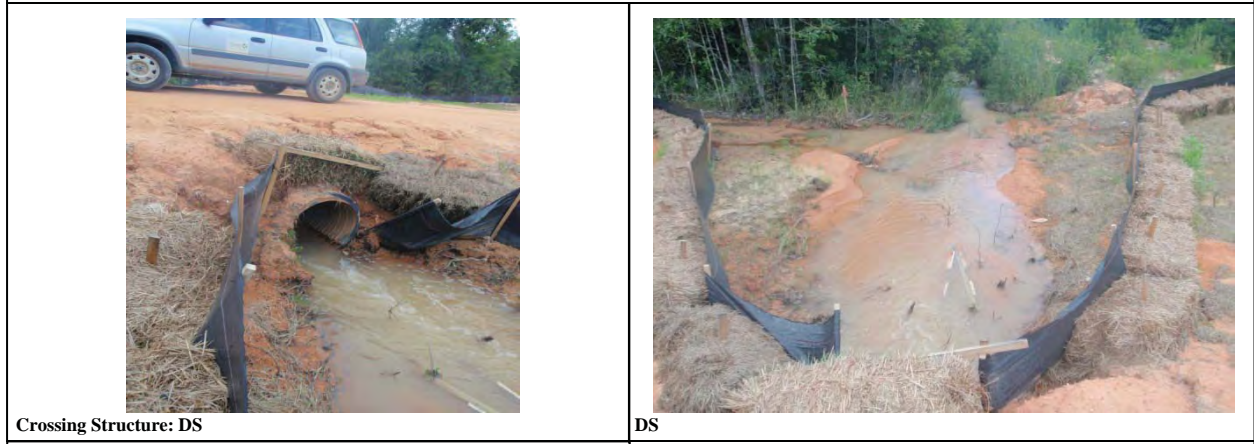
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<h1>Gum Creek</h1>	<h2>wa-0716-r-010</h2>	<b>Sedimentation Risk Index</b> <h1>26</h1>
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<u>Common:</u> 4.4mi E of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <span style="float:right"><u>GPS:</u> 30.753482, -86.241856</span>	<u>PLSS(T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> Margaret Rocque-US, James & Janice Shackelford-DS	<u>Parcel No.:</u> 48.0160; 49.0340	
	<u>Road Name:</u> E Dogwood Dr	



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<b>Outlet Total</b>	Unimproved Outlet System	1
<b>Ditches Total</b>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	17,18	
<i>Rt Approach Prism Fill:</i>	0.5in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: BMPs

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<h1>Gum Creek</h1>	<h2>wa-0716-r-011</h2>	<b>Sedimentation Risk Index</b> <h1>36</h1>
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<u>Common:</u> 4.4mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.754374, -86.241669	<u>PLSS(T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> James & Janice Shackelford-US, Antonio Chua	<u>Parcel No.:</u> 9.0160; 50.0340	
	<u>Road Name:</u> E Larkspur Ave	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>36</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: 17,18

Rt Approach Prism Fill: 1.0in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Poor drainage

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<b>Unnamed tributary</b>	<b>wa-0727-r-004b</b>	<i>Sedimentation Risk Index</i> <b>34</b>
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<u>Common:</u> 4.5mi E of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Gum Creek <i>GPS:</i> 30.755019, -86.240897	<u>PLSS (T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> Vicki and Michael Dekoninck-US, Thelma Adams-DS	<u>Parcel No.:</u> 7.10050;6.80010	
	<u>Road Name:</u> Blue Ridge Blvd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ MDC-INACTIVE LAND WITH STREET PATTERNS BUT WITHOUT STRUCTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity:      Cuvert,1  
Crossing Materials:                Metal  
Soil Types:                                8,17,18,33,36  
Rt Approach Prism Fill:            0.100  
Lt Approach Prism Fill:            0.250

Notes: DS BMP fill.

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<h1>Unnamed tributary</h1>	<h2>wa-0727-r-004a</h2>	<b>Sedimentation Risk Index</b> <h1>34</h1>
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<u>Common:</u> 4.5mi E of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Gum Creek <u>GPS:</u> 30.755967537, -86.240822602	<u>PLSS (T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> Roland & Judith Joachim-US, Ramon Trelles-DS	<u>Parcel No.:</u> 7.20030; 6.80940	
	<u>Road Name:</u> Blue Ridge Blvd	



Crossing Structure: DS	US
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Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	DA	3	
<i>DS Channel Morph</i>	E	5	
<i>DS Bank Alteration</i>	HIGH	1	
<i>Upstream Skew Angle</i>	>30°	1	
<i>Crossing fill condition</i>	Poor/Bare soil	1	
<i>Inlet/Outlet Condition</i>	No Impairment	5	
<i>Road Approach Material</i>	All Sand/Clay	3	
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5	
<i>Approach Slope Mean</i>	2.1-4%	3	
<i>Soil K Factor</i>	<0.20	5	
<i>Upstream Rt Outlet</i>	Bare soil	0	
<i>Upstream Lt Outlet</i>	Bare soil	0	
<i>Upstream Rt Ditch</i>	Bare soil	0	
<i>Upstream Lt Ditch</i>	Bare soil	0	
<i>Downstream Rt Outlet</i>	Other	0	
<i>Downstream Lt Outlet</i>	Other	0	
<i>Downstream Rt Ditch</i>	Bare soil	0	
<i>Downstream Lt Ditch</i>	Bare soil	0	
<i>Outlet Total</i>	Unimproved Outlet System	1	
<i>Ditches Total</i>	Unimproved Drainage System	1	
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>34</b>	


  

Additional Site Features	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	8,17,18,33,36
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ MDC-INACTIVE LAND WITH STREET PATTERNS BUT WITHOUT STRUCTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A



Notes: DS drop off. BMPs installed.

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Unnamed tributary	wa-0716-r-004	Sedimentation Risk Index <b>36</b>
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<u>Common:</u> 3.8mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.758112, -86.252781	<u>PLSS(T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> Helen Bright-US, Josh Graber & Kevin Millner-DS	<u>Parcel No.:</u> 9.0150; 25.0220	
	<u>Road Name:</u> Trout Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
US Channel Morph	WETLAND	5
DS Channel Morph	DA	3
DS Bank Alteration	HIGH	1
Upstream Skew Angle	5-30°	3
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	Sed Islands/Scouring	3
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	<2%	5
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Bare soil	0
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Other	0
Downstream Lt Outlet	Other	0
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Unimproved Outlet System	1
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>36</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: 8,17,17,32

Rt Approach Prism Fill: 0.5in

Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	N/A/ MDC-INACTIVE LAND WITH STREET PATTERNS BUT WITHOUT STRUCTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: BMPs DS outlets

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Unnamed tributary	wa-0716-r-003b	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 3.8mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River	<u>PLSS(T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> Helen Bright-US, Unknown DS	<u>Parcel No.:</u> 9.0150	
	<u>Road Name:</u> Trout Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	8,17,18,32
<u>Rt Approach Prism Fill:</u>	0.05in
<u>Lt Approach Prism Fill:</u>	0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	N/A / ELECTRICAL POWER TRANSMISSION LINES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culvert barely visible

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<b>Unnamed tributary</b>	<b>wa-0707-r-003</b>	<i>Sedimentation Risk Index</i> <b>34</b>
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<u>Common:</u> 1.7mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Battle Creek <u>GPS:</u> 30.756542, -86.295839	<u>PLSS:</u> 13-3N-21	
<u>Land owner:</u> Barbara Hall	<u>Parcel No.:</u> 0D	
	<u>Road Name:</u> Donna Ln	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	RESIDENTIAL/ ELECTRICAL POWER TRANSMISSION LINES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Reservoir Drain, 1  
Crossing Materials: Metal  
Soil Types: 33,34  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 1.0in

Notes: None

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<b>Unnamed tributary</b>	<b>wa-0716-r-003a</b>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> 3.8mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.756112, -86.252238	<u>PLSS(T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> Helen Bright-US, James & Diane Love-DS	<u>Parcel No.:</u> 9.0150; 25.0150	
	<u>Road Name:</u> Trout Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Culvert, 1	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	8,17,18,32	
<u>Rt Approach Prism Fill:</u>	0.01in	
<u>Lt Approach Prism Fill:</u>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	N/A/ MDC-INACTIVE LAND WITH STREET PATTERNS BUT WITHOUT STRUCTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: BMPs installed

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<h1>Unnamed tributary</h1>	<h2>wa-0727-r-003</h2>	<b>Sedimentation Risk Index</b> <h1>34</h1>
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<p><u>Common:</u> 4.6mi E of Mossy Head  <u>Drainage:</u> Gum Creek <i>GPS:</i> 30.760196481, -86.242056613  <u>Land owner:</u> Timothy Tindle-DS, Joann S. Bryan-US</p>	<p><u>County:</u> Walton <u>State:</u> Florida  <u>PLSS (T-R-S):</u> 3N-20-16-28060  <u>Parcel No.:</u> 7.60010; 07.50010  <u>Road Name:</u> Hollyhock PI</p>
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Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>34</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	8,17,18,33,35	
<i>Rt Approach Prism Fill:</i>	0.1in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ UNIMPROVED PASTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Cannot see DS outlet. US pond is full of algal growth.

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Unnamed tributary	wa-0716-r-006	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 3.9mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River GPS: 30.762719, -86.252690	<u>PLSS(T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> Richard & Barbara Harrison-DS, Marjorie McLaughlin-US	<u>Parcel No.:</u> 16.0310; 015.0170	
	<u>Road Name:</u> Amaryllis Ln	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
US Channel Morph	WETLAND	5
DS Channel Morph	PONDED	1
DS Bank Alteration	HIGH	1
Upstream Skew Angle	<5°	5
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	Blocked	1
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Bare soil	0
Downstream Lt Outlet	Bare soil	0
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Unknown	
<u>Crossing Materials:</u>	Unknown	
<u>Soil Types:</u>	8,17,18,33	
<u>Rt Approach Prism Fill:</u>	0.5in	
<u>Lt Approach Prism Fill:</u>	0.15in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Buried crossing structure- unknown. Fence across DS.

<b>Unnamed tributary</b>	<b>wa-0716-r-001</b>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> 3.2mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.756063, -86.263258	<u>PLSS(T-R-S):</u> 3N-20-17-28080	
<u>Land owner:</u> Reita Starkey-DS East, Douglas Englishman-DS West, John Luchka-US	<u>Parcel No.:</u> 8.0150; 34.0060; 35.0050	
	<u>Road Name:</u> Violet Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Other	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>38</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	8,17,18,33	
<i>Rt Approach Prism Fill:</i>	0.1in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	N/A/ MIXED SCRUB-SHRUB WETLAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Failing BMPs installed.

<b>Unnamed tributary</b>	<b>wa-0716-r-005</b>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> 3.9mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.763401, -86.252959	<u>PLSS(T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> Catoe Investments Inc- US, BLPW Roppe Inc-DS	<u>Parcel No.:</u> 16.0120; 025.0540	
	<u>Road Name:</u> Trout Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare Soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: 8,17,18,32

Rt Approach Prism Fill: 0.25

Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: BMPs for fill and outlets-- failing. Outlets running over.

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<h1>Gum Creek</h1>	<h2>wa-0727-r-005</h2>	<b>Sedimentation Risk Index</b> <h1>40</h1>
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<p><u>Common:</u> 4.4mi E of Mossy Head  <u>Drainage:</u> Shoal River <i>GPS:</i> 30.755371184, -86.241644652  <u>Land owner:</u> Estate and Gumersindo Rodriguez-DS, Fredrick W. Lauer-US</p>	<p><u>County:</u> Walton <u>State:</u> Florida  <u>PLSS (T-R-S):</u> 3N-20-16-28060  <u>Parcel No.:</u> 6.80020; 5.10290  <u>Road Name:</u> Blue Ridge Blvd</p>
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Crossing Structure: Lt Approach



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Ford, 1  
Crossing Materials: Native Soil  
Soil Types: 8,17,18,33,36  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 2.0in

Notes: Potentially a culvert below flooding? Unimproved road, high prism fill.

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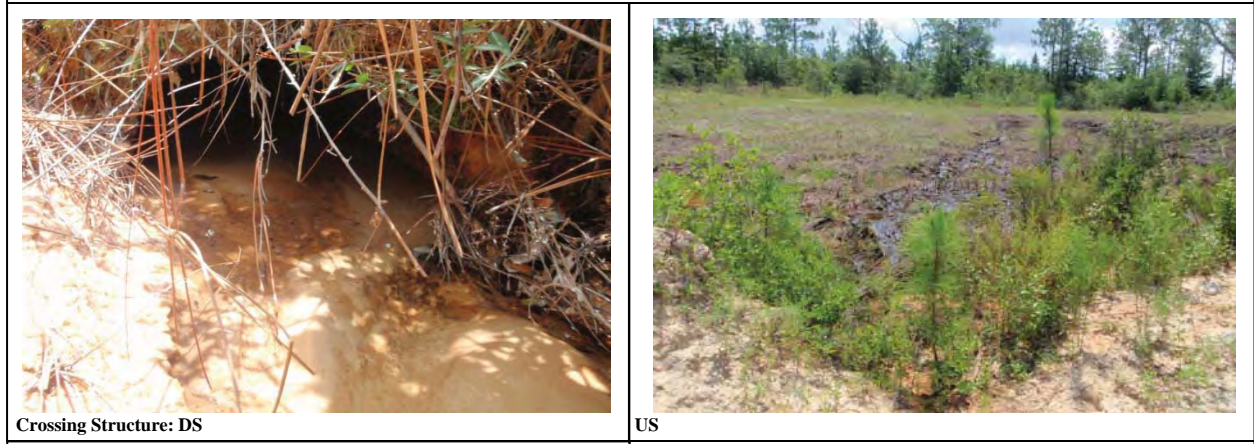


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Unnamed tributary	wa-0727-r-001	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 4.6mi E of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Gum Creek <i>GPS:</i> 30.761649086, -86.240202153	<u>PLSS (T-R-S):</u> 3N-20-16-28060	
<u>Land owner:</u> John Cruz Lopez-US, Johh L Wright/ Edwin Nauman as trustee-DS	<u>Parcel No.:</u> 07.70180;06.80690; 06.80670	
	<u>Road Name:</u> Blue Ridge Rd	




Risk Factor	Ranking	Score
<i>US Channel Morph</i>	A	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>

<u>Additional Site Features</u>	
<i>Crossing Type and Quantity:</i>	Culvert, 1
<i>Crossing Materials:</i>	Metal
<i>Soil Types:</i>	17,18,33,35
<i>Rt Approach Prism Fill:</i>	0.5in
<i>Lt Approach Prism Fill:</i>	0.35in

		
Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: High gradient US

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Unnamed tributary	wa-0716-r-007	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 3.9mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.765575, -86.254841	<u>PLSS(T-R-S):</u> 3N-20-09-28000	
<u>Land owner:</u> Jon Payne	<u>Parcel No.:</u> 5.001	
	<u>Road Name:</u> Trout Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: 4,8,17,18,33

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	VACANT RESIDENTIAL/ MDC-LOW DENSITY, MIXED UNITS (FIXED AND MOBILE HOME UNITS)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Outlets BMPs

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Unnamed tributary	wa-0716-r-008	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 3.8mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River	<u>PLSS(T-R-S):</u> 3N-20-08-28000	
<u>Land owner:</u> Shannon Fugit-US, Glennon Kingsley-DS	<u>Parcel No.:</u> 4.0010; 4.0070	
	<u>Road Name:</u> Trout Dr	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
US Channel Morph	WETLAND	5
DS Channel Morph	WETLAND	5
DS Bank Alteration	HIGH	1
Upstream Skew Angle	5-30°	3
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Sed Islands/Scouring	3
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Other	0
Upstream Lt Outlet	Bare soil	0
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Other	0
Downstream Lt Outlet	Other	0
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Unimproved Outlet System	1
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 15,17,31,33,35  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.5in

Notes: Outlet BMPs

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<h1>Battle Creek</h1>	<h2>wa-0707-r-001</h2>	<b>Sedimentation Risk Index</b> <h1>42</h1>
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<u>Common:</u> 2.3mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.767306, -86.288072	<u>PLSS(T-R-S):</u> 3N-20-07	
<u>Land owner:</u> Anthony & Deborah Farrantello-DS, Marie Berry-US	<u>Parcel No.:</u> 21.0011;020.0010	
	<u>Road Name:</u> Unpaved road off Squire Way	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: 6,17,18,31,32,33,34

Rt Approach Prism Fill: 9.0in

Lt Approach Prism Fill: 3.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	VACANT RESIDENTIAL/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Not sure if this is a county-maintained road.

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<b>Unnamed tributary</b>	<b>wa-1005-r-006</b>	<i>Sedimentation Risk Index</i> <b>46</b>
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<i>Common:</i> 2.4mi NE of Mossy Head	<i>County:</i> Walton	<i>State:</i> Florida
<i>Drainage:</i> Battle Creek <i>GPS:</i> 30.772010514, -86.294946031	<i>PLSS (T-R-S):</i> 3N-21-12-37050	
<i>Land owner:</i> Joseph & Carolyn Guzzo-US, Pamela Jane Pillitteri-DS	<i>Parcel No.:</i> 2.0060; 3.0020	
	<i>Road Name:</i> Red Oak Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Culvert,1
<i>Crossing Materials:</i>	Other
<i>Soil Types:</i>	17,31,33
<i>Rt Approach Prism Fill:</i>	0.25in
<i>Lt Approach Prism Fill:</i>	0.5in

Notes: Unknown culvert material- buried. Water welling up from the ground.

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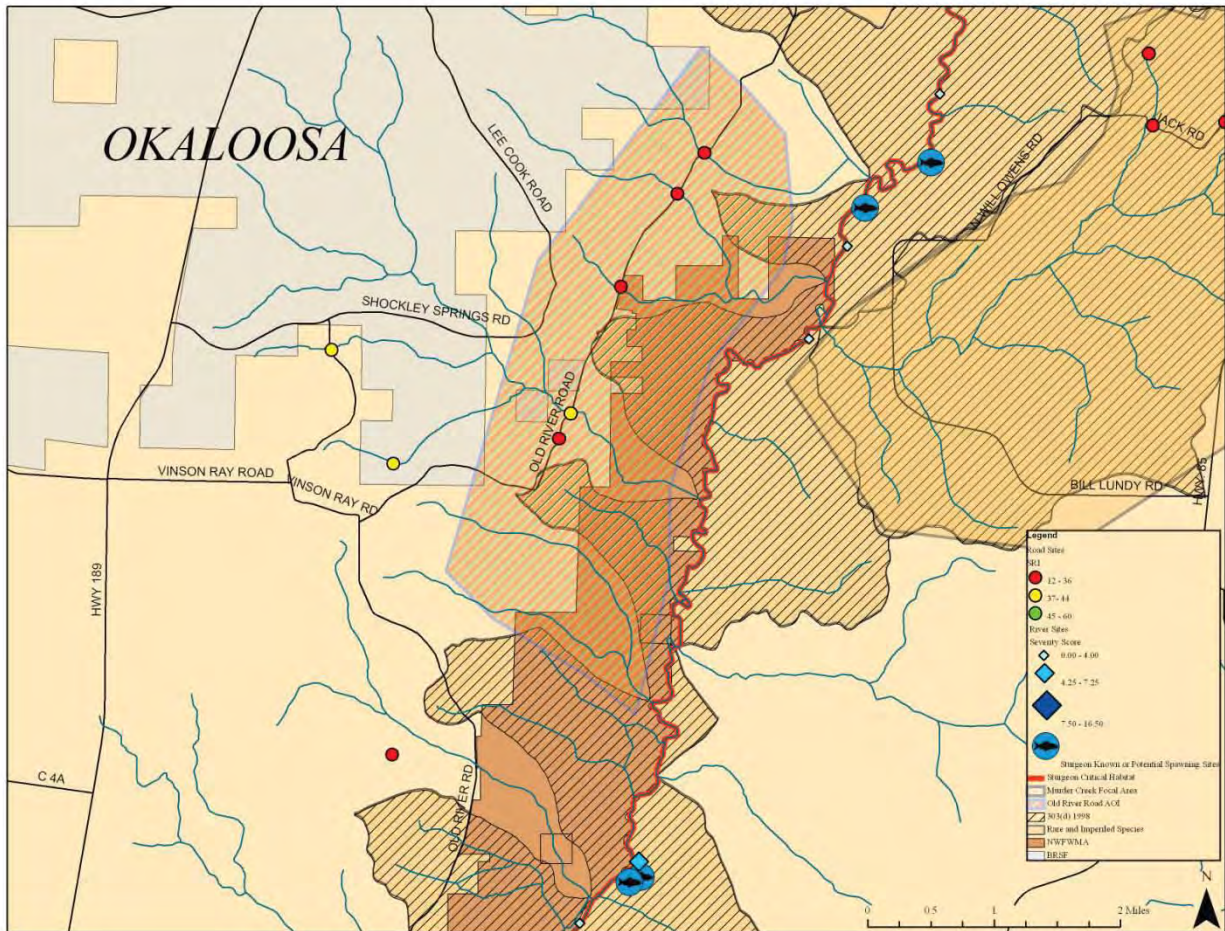


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Appendix M. Old River Road Area of Interest. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



<h1 style="margin:0;">Bear Branch</h1>	<h2 style="margin:0;">ok-0512-r-004</h2>	<p style="margin:0; font-size: small;">Sedimentation Risk Index</p> <h1 style="margin:0;">28</h1>
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<p><u>Common:</u> 8.1m NW of Crestview</p> <p><u>Drainage:</u> Yellow River <i>GPS:</i> 30.876536310, -86.606435802</p> <p><u>Land owner:</u> NWFWM- DS, A.R. Cook- US</p>	<p><u>County:</u> Okaloosa</p> <p><u>PLSS(T-R-S):</u> 4N-24-01</p> <p><u>Parcel No.:</u> 1, 1.001</p> <p><u>Road Name:</u> Old River Rd</p>	<p><u>State:</u> Florida</p>
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Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>28</b>

Additional Site Features	
<i>Crossing Type and Quantity:</i>	Culvert, 1
<i>Crossing Materials:</i>	Metal
<i>Soil Types:</i>	23,36,37,38,39,41,43,44,52,56
<i>Rt Approach Prism Fill:</i>	1.0in
<i>Lt Approach Prism Fill:</i>	1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	OTHER/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A



Notes: DS outfall drop, rip rap in stream bed. Fencing across US inlet. Fish passage barrier.

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<h1>Unnamed tributary</h1>	<h2>ok-0512-r-006</h2>	<b>Sedimentation Risk Index</b> <h1>32</h1>
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<u>Common:</u> 7.2mi NW of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Deadfall Creek <u>GPS:</u> 30.859214, -86.614747	<u>PLSS(T-R-S):</u> 4N-24-11	
<u>Land owner:</u> Cheryl Mack	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Old River Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 23,36,37,38,39,41,43,44,52,56  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 2.0in

Notes: Fencing around US undersized culvert.



<b>Reedy Creek</b>	<b>ok-0512-r-003</b>	<i>Sedimentation Risk Index</i> <b>34</b>
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<u>Common:</u> 8.9mi N of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <i>GPS:</i> 30.887350, -86.598839	<u>PLSS(T-R-S):</u> 5N-24-36	
<u>Land owner:</u> Mark Davis-DS, Mary Keeling- US	<u>Parcel No.:</u> 7.002, 7.0	
	<u>Road Name:</u> Old River Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert/Stand Pipe, 1  
Crossing Materials: Metal  
Soil Types: 6,36,37,39,40,41,43,44,45,49,50  
Rt Approach Prism Fill: 0.05in  
Lt Approach Prism Fill: 1.0in

Notes: Rt approach paved to hilltop. Fish passage barrier. Second stand pipe US adjacent to Rt approach

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<h1>Polley Creek</h1>	<h2>ok-0512-r-002</h2>	<b>Sedimentation Risk Index</b> <h1>34</h1>
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<u>Common:</u> 9mi N of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.892023, -86.595242	<u>PLSS(T-R-S):</u> 5N-24-36	
<u>Land owner:</u> The H.T.L Family Ltd Ptr	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Old River Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ WET PRARIES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 12,16,23,36,37,40,41,43,44,49  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 2.0in

Notes: US outlet has high levels of sedimentation

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<b>Deadfall Creek</b>	<b>ok-0512-r-005</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 7.4mi NW of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.862141426, -86.613178012	<u>PLSS(T-R-S):</u> 4N-24-11	
<u>Land owner:</u> Cheryl Mack	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Old River Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ ELECTRICAL POWER TRANSMISSION LINES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 23,36,37,38,39,41,43,44,52,56  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 1.5in

Notes: DS altered by power line crossing.

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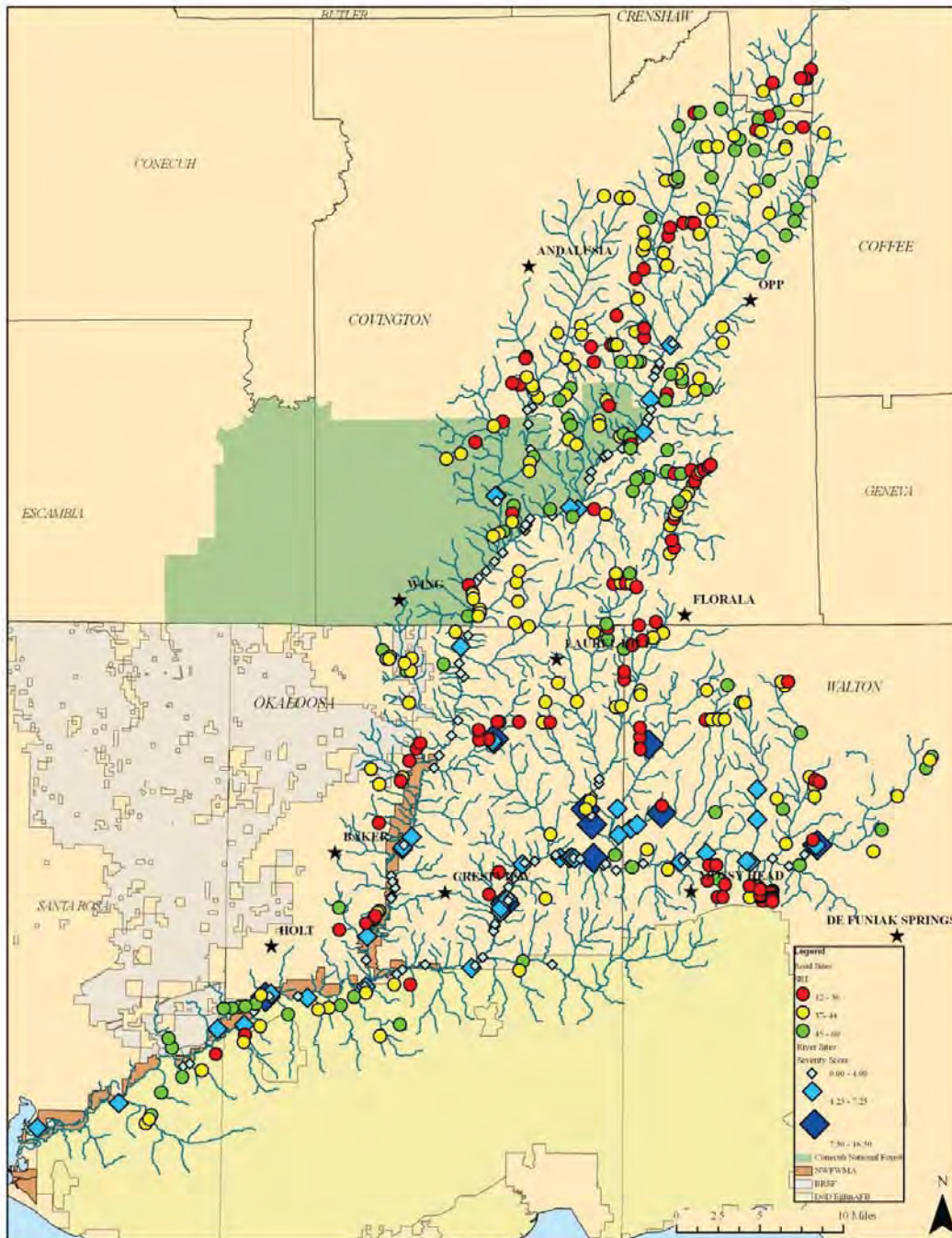


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Appendix N. Other impaired river corridor and unpaved road crossing sites. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



<b>Gum Creek</b>	<b>wa-1026-001</b>	<b>Severity Score 10.5</b>
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*Common:* 7.3mi NE of De Funiak Springs, .04mi DS HWY 331      *County:* Walton      *State:* Florida  
*Drainage:* Shoal River      *GPS:* 30.801519827, -86.194956251      *PLSS(T-R-S):* 4N-20W-36  
*Land owner:* Christopher Marshall      *Parcel No.:* 1


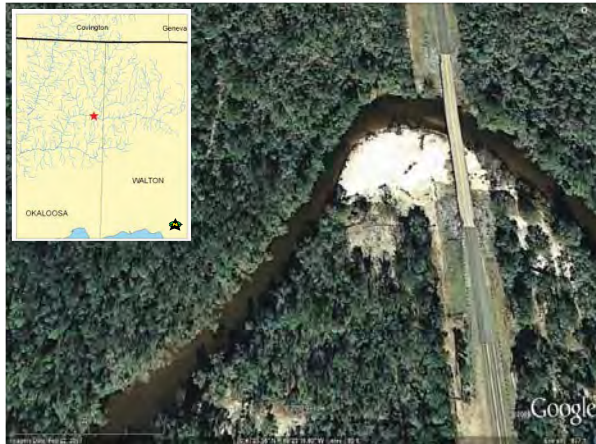


RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	In Recovery	1	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	0.5	Land Use/Cover	Yes	RESIDENTIAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Present	1.5	<i>Impoundments:</i> Rip Rap		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	None	0.25			
<b>River Threat Index:</b>		<b>10.5</b>			

Notes: Rip rap has been used as a shoring structure around the bridge and large quantities have fallen in the stream channel causing a fish passage blockage during low flow stages. A house nearby is also noted as a source of NSPS.

Shoal River		ok-0615-001		Severity Score <b>7.5</b>	
<i>Common:</i> 9.1mi NW of Crestview, CR 393 Bridge Crossing		<i>County:</i> Okaloosa		<i>State:</i> Florida	
<i>Drainage:</i> Shoal River		<i>GPS:</i> 30.79108517, -86.42064962		<i>PLSS(T-R-S):</i> 3N-22W-2	
<i>Land owner:</i> Donald Cunard		<i>Parcel No.:</i> 6			
					
LB					
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>Feature</b>	<b>Within Range</b>	<b>Descriptive Field</b>
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	In Recovery	1	<b>Wetland Species</b>	No	N/A
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER,SPECKLED CHUB,IRONCOLOR SHINER
<i>BEHI</i>	Moderate	0.5	<b>Land Use/ Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	<b>Candidate Mussels</b>	Yes	SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Present	1.5	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Clay Marl		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>7.5</b>			

Notes: Rip rap used as shoring structure underneath CR 393 bridge. Power line crossing, bridge, and anthropomorphic evidence at this site. House boat being stored/lived in under bridge.

<b>Yellow River</b>	<b>co-0813-004</b>	<i>Severity Score</i> <b>7</b>
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*Common:* 10.3 miles SW of Opp, 2 miles DS from CR 32      *County:* Covington      *State:* Alabama  
*Drainage:* Yellow River      *GPS:* 30.801519827, -86.194956251      *PLSS:* 2N-17E-5  
*Land owner:* Patricia Moody      *Parcel No.:* 5/156AC



**LB**



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Mass wasting	1.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Extreme- Very High	1.5	Land Use/ Cover	Yes	N/A / EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	None	0.75			
<b>River Threat Index:</b>		<b>7</b>			

Notes: House/camp above bank. Uncharacteristic of this upper portion of the river. Some of the highest banks in the whole watershed.

<b>Shoal River</b>	<b>wa-0720-001</b>	<b>Severity Score</b> <b>6.75</b>
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Common: 3.5mi N of Mossy Head, HWY 285 Bridge Crossing      County: Walton      State: Florida  
Drainage: Yellow River      GPS: 30.795099684, -86.307253847      PLSS(T-R-S): 4N-21W-35  
Land owner: RB: Matthew Braley/ LB: Charlie Sierra Association Inc      Parcel No.: 1.004/ 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	Historic, Mostly Recovered	0.5	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB, IRONCOLOR SHINER
<i>BEHI</i>	High	1	<b>Land Use/ Cover</b>	Yes	PARCELS WITH NO VALUES/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Present	1.5	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Medium Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>6.75</b>			

Notes: Bridge crossing at New Harmony Rd and power lines. OFW Unimproved boat launch/access area. Shallow all the way across.



<h1>Yellow River</h1>	<h2>sr-0304-001</h2>	<b>Severity Score</b> <h1>6.25</h1>
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Common: 3.8mi SE of Bagdad  
Drainage: Blackwater Bay GPS: 30.557516, -86.98225  
Land owner: RB: Otis Brown & Leila Mae / LB: NFWFMD

County: Santa Rosa State: Florida  
PLSS(T-R-S): 1N-27W-31  
Parcel No.: 1/2



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Excellent	0	303(d)	Yes	DISSOLVED OXYGEN, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB, IRONCOLOR SHINER, GULF STURGEON, ALABAMA SHAD, ALLIGATOR GAR, SPECKLED DARTER, SPOTTED BULLHEAD
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Present	1.5	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Wood, Concrete, and Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>6.25</b>			

Notes: Pipe discharge on right bank. Residential community at delta of river.  
 High amount of shoring structures. Public boat launch.

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<b>Gum Creek</b>	<b>wa-1026-002</b>	<i>Severity Score</i> <b>6</b>
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Common: 7.4mi NW of DeFuniak Springs, 0.1mi DS HWY 331      County: Walton      State: Florida  
Drainage: Shoal River      GPS: 30.800967838, -86.196253398      PLSS(T-R-S): 4N-20W-36  
Land owner: Kenneth Seigler      Parcel No.: 2.2006



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Mass Wasting	1.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Active	1	Land Use/Cover	Yes	RESIDENTIAL/ IMPROVED PASTURES
<i>Local NPSP</i>	Slight	0.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	None	0.75			
<b>River Threat Index:</b>		<b>6</b>			

Notes: Steep bank, clear cut land above. Bank is 22ft high.

<b>Yellow River</b>	<b>co-0819-002</b>	<i>Severity Score</i> <b>6</b>
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Common: 8.8mi SW of Opp, Co Rd 32 bridge crossing  
Drainage: Blackwater Bay GPS: 31.190733, -86.360961  
Land owner: Rayonier Woodlands

County: Covington State: Alabama  
PLSS(T-R-S): 3N-17E-33  
Parcel No.: LLC 1/572AC



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	Historic, Mostly Recovered	0.5	Wetland Species	No	N/A
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / PASTURE/HAY
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>6</b>			

Notes: Bridge crossing and campsite. Rip rap and concrete used as shoring structure.

<b>Shoal River</b>	<b>wa-1009-002</b>	<i>Severity Score</i> <b>5.5</b>
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*Common:* 2.6mi N of Oakwood Hills Development near Mossy Head      *County:* Walton      *State:* Florida  
*Drainage:* Yellow River      *GPS:* 30.786979658, -86.262246396      *PLSS(T-R-S):* 3N-20W-5  
*Land owner:* NWFL Girl Scouts      *Parcel No.:* 1



LB





Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	In Recovery	1	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Low- Very Low	0	Land Use/ Cover	Yes	RECREATION/ WETLAND FORESTED MIX
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> Manmade (Wooden Bridge)		
<i>RB: Riparian Buffer</i>	50-99 ft	0.25	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>5.5</b>			

Notes: Hurricane Ivan damaged bridge structure- formerly Girl Scout Rd.

Pieces of bridge were found DS washed into trees .

OFW.

Shoal River		ok-0422-007		Severity Score 5.5	
<u>Common:</u> 4.7mi SE of Crestview		<u>County:</u> Okaloosa		<u>State:</u> Florida	
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.695776786, -86.544244906		<u>PLSS(T-R-S):</u> 2N-23W-4			
<u>Land owner:</u> RB: Haiseal Timber Co/ LB: Newman & Julie Bush		<u>Parcel No.:</u> 3/3.001			
					
LB					
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>Feature</b>	<b>Within Range</b>	<b>Descriptive Field</b>
<i>Channel Stability</i>	Good	0.5	303d	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER,SPECKLED CHUB IRONCOLOR SHINER
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Present	1.5	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	30-49 ft	0.5	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>5.5</b>			

Notes: Pipe Discharge coming from a PVC pipe on the left bank upstream from this site.

<h1>Yellow River</h1>	<h2>ok-0424-004</h2>	<b>Severity Score</b> <h1>5.25</h1>
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Common: 3.8mi SE of Crestview  
Drainage: Blackwater Bay GPS: 30.799722, -86.613524  
Land owner: RB: NFWFMD/ LB: Hervis Ward

County: South State: Florida  
PLSS(T-R-S): 4N-24W-35/36  
Parcel No.: 1/ 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	Yes	AGRICULTURAL/ STREAM AND LAKE SWAMPS (BOTTOMLAND)
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C H	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>5.25</b>			

Notes: Fencing on top of bank- effecting erosion. Road 20ft from bank.

Shoring structure is concrete and covers less than 5 percent of bank.

Area is used as a hunting preserve.

<b>Yellow River</b>	<b>co-0824-002</b>	<b>Severity Score</b> <b>5.25</b>
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Common: 5.8mi SW of Opp      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.238180661, -86.340537007      PLSS(T-R-S): 3N-17E-10  
Land owner: Unknown      Parcel No.: 8/75AC



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND - LOBLOLLY MODIFIER
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	Yes	CHOCTAW BEAN
<i>Shoring Structures</i>	Present	1.5	Sturgeon C H	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> None		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Silt Loam		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>5.25</b>			

Notes: None.

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<b>Yellow River</b>	<b>co-0807-008</b>	<b>Severity Score</b> <b>5.25</b>
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Common: 9mi NW of Florala      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.095519537, -86.435215265      PLSS(T-R-S): 2N-16E-34  
Land owner: RB: Unknown/ LB: James & Mary Phillips      Parcel No.: RB: ? / LB: 13/49AC



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	METALS (MERCURY)
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND - LOBLOLLY MODIFIER
<i>Local NPSP</i>	Obvious Sources	1	Candidate Mussels	Yes	FUZZY PIGTOE, SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>5.25</b>			

Notes: Shoring structure under Hwy 55 bridge composed of concrete and rip rap.



Shoal River	ok-0615-008	Severity Score 5
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Common: 7.3mi NE of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.791739607, -86.454191381      PLSS(T-R-S): 3N-22W-4  
Land owner: RB: Haiseal Timber Co / LB: Catherine Canderson Trust      Parcel No.: 4/4.004



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	<b>303(d)</b>	No	N/A
<i>Channel Alteration</i>	In Recovery	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Historic	1	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER,SPECKLED CHUB,IRONCOLOR SHINER
<i>BEHI</i>	Extreme-Very High	1.5	<b>Land Use/Cover</b>	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Clay		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	None	0.75			
<b>River Threat Index:</b>		<b>5</b>			

Notes: Private road leading to site.

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<b>Yellow River</b>	<b>ok-0608-001</b>	<b>Severity Score</b> <b>5</b>
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Common: 4mi NW of Crestview      County: Okaloosa      State: Florida  
Drainage: Blackwater Bay      GPS: 30.810539333, -86.604286908      PLSS(T-R-S): 4N-24W-36  
Land owner: Hervis Ward      Parcel No.: 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Recent, No Recovery	1.5	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Clay		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	None	0.75			
<b>River Threat Index:</b>		<b>5</b>			

Notes: Very high bank. At the end of hunting preserve, adjacent to private road.

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<b>Yellow River</b>	<b>ok-0424-003</b>	<b>Severity Score</b> <b>5</b>
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Common: 3.7mi NW of Crestview  
Drainage: Blackwater Bay GPS: 30.801281, -86.613212  
Land owner: RB: NFWMD / LB: Hervis Ward

County: Okaloosa State: Florida  
PLSS(T-R-S): 4N-24W-35/36  
Parcel No.: 1/1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Present	1.5	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand / Silt		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Silt		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>5</b>			

Notes: Recreational site, nearby road, and shooting preserve / fish pond.

Pipe on left bank is draining the fish pond into Yellow River DS.

<b>Turkey Creek</b>	<b>wa-1028-001</b>	<b>Severity Score</b> <b>4.75</b>
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Common: 7mi N of Mossy Head      County: Walton      State: Florida  
Drainage: Shoal River      GPS: 30.849801722, -86.25527761      PLSS(T-R-S): 4N-20W-16  
Land owner: Martha Pridgen      Parcel No.: 4



RB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	COLIFORMS, TURBIDITY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Clay Marl		
<i>LB: Riparian Buffer</i>	100 + ft	0	<i>Bank Material:</i> Clay		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>4.75</b>			

Notes: Power line crossing. Very low sinuosity.

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<b>Shoal River</b>	<b>ok-0615-007</b>	<i>Severity Score</i> <b>4.75</b>
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Common: 7.7mi NE of Crestview  
Drainage: Yellow River GPS: 30.791181735, -86.444845391  
Land owner: Haiseal Timber Co

County: Okaloosa State: Florida  
PLSS(T-R-S): 3N-22W-4  
Parcel No.: 4



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	<b>303d</b>	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER
<i>BEHI</i>	High	1	<b>Land Use/Cover</b>	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Clay and Sand		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	None	0.25			
<b>River Threat Index:</b>		<b>4.75</b>			

Notes: Natural meander erosion.

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Yellow River	ok-0416-003	Severity Score 4.75
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Common: 5.4mi SW of Crestview      County: Okaloosa      State: Florida  
Drainage: Blackwater Bay      GPS: 30.723687084, -86.649676725      PLSST-R-S): 3N-24W-28  
Land owner: RB: Colin R. Hicks/ LB: NWFWMD      Parcel No.: 1.1/ 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
Channel Stability	Poor	1.5	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
Channel Alteration	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
Bank Erosion	Mass-Wasting	1.5	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
BEHI	High	1	Land Use/ Cover	Yes	OTHER/ STREAMS AND WATERWAYS
Local NPSP	No Evidence	0	Candidate Mussels	No	N/A
Shoring Structures	Not Present	0	Sturgeon C.H.	Yes	N/A
Pipe Discharge	Not Present	0	<b>Additional Site Features</b>		
Water Odors	Not Present	0	<u>Stream Channel Woody Material:</u> Moderate		
Fish Passage Barrier	Not Present	0	<u>Impoundments:</u> None		
RB: Riparian Buffer	100+ ft	0	<u>Substrate Composition:</u> Medium Sand		
LB: Riparian Buffer	100+ ft	0	<u>Bank Material:</u> Sand and Clay		
RB: Floodplain Access	None	0.75			
LB: Floodplain Access	Full	0			
<b>River Threat Index:</b>		<b>4.75</b>			

Notes: Large clear-cut area 0.1mi E of eroding bank.

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Turkey Creek	wa-1028-002	Severity Score <b>4.5</b>
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Common: 5mi NE of Mossy Head      County: Walton      State: Florida  
Drainage: Shoal River      GPS: 30.824039425, -86.255678894      PLSS(T-R-S): 4N-20W-28  
Land owner: Unknown      Parcel No.: Unknown



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	COLIFORMS, TURBIDITY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/Cover	Yes	VACANT RESIDENTIAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Clay Marl		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.5</b>			

Notes: Joyce Cordell is noted as a possible land owner. Logging road 0.3mi west of site?  
60ft site reach.

<b>Shoal River</b>	<b>wa-1009-003</b>	<i>Severity Score</i> <b>4.5</b>
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Common: 4.4mi NE of Mossy Head      County: Walton      State: Florida  
Drainage: Yellow River      GPS: 30.787746849, -86.266218365      PLSS(T-R-S): 3N-22W-4  
Land owner: NWFL Girl Scouts      Parcel No.: 1



RB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Mass Wasting	1.5	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Historic	0.5	<b>Land Use/Cover</b>	Yes	RECREATION/WETLAND FORESTED MIX
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.75			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.5</b>			

Notes: Girl Scout camp landing? Clear at top of bank  
 Site not characteristic of this stretch of the Shoal River.  
 RB is much higher than much of the reach.

OFW



<b>Shoal River</b>	<b>wa-0720-003</b>	<i>Severity Score</i> <b>4.5</b>
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Common: 3.2mi N of Mossy Head      County: Walton      State: Florida  
Drainage: Yellow River      GPS: 30.787452709, -86.332943941      PLSS(T-R-S): 4N-21W-35  
Land owner: Shoal River Oaks      Parcel No.: 2



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB, IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	PARCELS WITH NO VALUES/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Slight	0.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.5</b>			

Notes: Public access from plantation lane. Used as a recreational hunt camp. OFW.

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<b>Shoal River</b>	<b>ok-0615-006</b>	<i>Severity Score</i> <b>4.5</b>
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Common: 7.7mi NE of Crestview  
Drainage: Yellow River GPS: 30.79211924, -86.442472064  
Land owner: Haiseal Timber Co

County: Okaloosa State: Florida  
PLSS(T-R-S): 3N-22W-4  
Parcel No.: 4



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Clay and Sand		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.5</b>			

Notes: Natural meander erosion.

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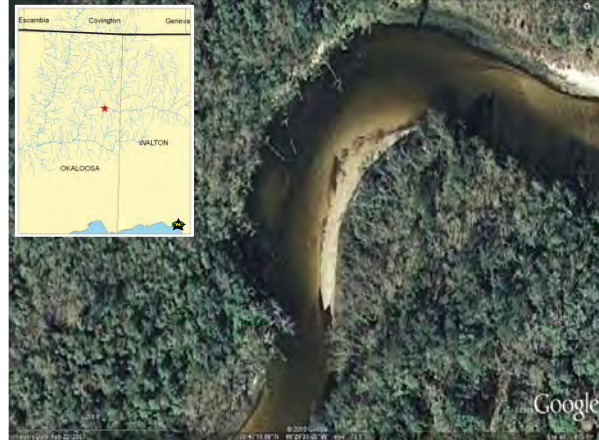
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<b>Shoal River</b>	<b>ok-0615-014</b>	<b>Severity Score</b> <b>4.25</b>
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Common: 8mi NE of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.786030551, -86.492481863      PLSS(T-R-S): 3N-23W-1  
Land owner: LB: Haiseal Timber Co/ RB: Seagull Inc      Parcel No.: 1/1.001



US



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303d	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB, IRONCOLOR SHINER
<i>BEHI</i>	Low- Very Low	0	Land Use/ Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Medium Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.25</b>			

Notes: Public access, ATV trail to water, picnic table, and trash present.

LB historically clear cut. Spotty riparian coverage.

<b>Shoal River</b>	<b>ok-0615-004</b>	<b>Severity Score</b> <b>4.25</b>
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Common: 8mi NE of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.790984237, -86.44005821      PLSS(T-R-S): 3N-22W-3  
Land owner: Haiseal Timber Co      Parcel No.: 3



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	GOLDSTRIPE DARTER,SPECKLED CHUB,IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>4.25</b>			

Notes: Natural meander erosion.

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<b>Yellow River</b>	<b>ok-0609-012</b>	<b>Severity Score</b> <b>4.25</b>
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Common: 5.9mi NW of Laurel Hill  
Drainage: Blackwater Bay GPS: 30.9759598, -86.5539248  
Land owner: H.T.L. Family LTD Ptr

County: Okaloosa State: Florida  
PLSS(T-R-S): 6N-23W-33  
Parcel No.: 4



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	<b>303d</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not eroding	0	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Moderate Potential	1	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Present	1.5	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4.25</b>			

Notes: Silviculture practice surrounding site.

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<b>Yellow River</b>	<b>ok-0424-002</b>	<i>Severity Score</i> <b>4</b>
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Common: 3.8mi NW of Crestview  
Drainage: Blackwater Bay GPS: 30.803481, -86.612175  
Land owner: LB: Hervis Ward/ RB: NFWFMD

County: Okaloosa State: Florida  
PLSS(T-R-S): 4N-24W-35/36  
Parcel No.: 1/1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0	<b>303(d)</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not Eroding	0	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	Moderate Potential	1	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Present	1.5	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Concrete		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>4</b>			

Notes: Broken concrete slabs are being used as shoring structure.

Hunting preserve is fenced and a fish pond is downstream

<b>Titi Creek</b>	<b>ok-1022-001</b>	<i>Severity Score</i> <b>4</b>
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Common: 7.7mi SE of Crestview      County: Okaloosa      State: Florida  
Drainage: Shoal River      GPS: 30.698776532, -86.462921107      PLSS(T-R-S): 2N-22W-1  
Land owner: USA- Eglin AFB      Parcel No.: 1



RB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	INSTITUTIONAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> Woody Material Jams		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Coarse Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Coarse Sand		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4</b>			

Notes: Uncommon feature for Titi Creek. 270ft reach

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<b>Shoal River</b>	<b>ok-0616-002</b>	<i>Severity Score</i> <b>4</b>
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Common: 4.4mi NE of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.777450186, -86.498332723      PLSS(T-R-S): 3N-23W-12  
Land owner: Rita Chimiak      Parcel No.: 2





LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	None	0.75			
<b>River Threat Index:</b>		<b>4</b>			

Notes: New growth on eroding bank may indicate historic erosion. However bank still appears to be degrading.  
 Unpaved road on both banks. Aerials show evidence of past logging/clear cutting.



Shoal River		ok-0615-010		Severity Score 4	
<u>Common:</u> 5.7mi NW of Crestview		<u>County:</u> Okaloosa		<u>State:</u> Florida	
<u>Drainage:</u> Yellow River		<u>PLSS(T-R-S):</u> 3N-22W-6			
<u>Land owner:</u> Haiseal Timber Co		<u>Parcel No.:</u> 1&4			
					
RB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Coarse Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4</b>			

Notes: Lacking riparian buffer and vegetation with deep roots to prevent further erosion. Moderately entrenched.

<b>Yellow River</b>	<b>ok-0608-007</b>	<i>Severity Score</i> <b>4</b>
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<u>Common:</u> 9mi SW of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.88127221, -86.57624689	<u>PLSS(T-R-S):</u> 4N-23W-6	
<u>Land owner:</u> RB: R.J. Trust & Johnson Shahid	<u>Parcel No.:</u> RB: 2.004/ LB: 2.005/2	
LB: Raymond & Mary Powers/ R.J & Johnston Shahid		



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	<b>303(d)</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	1	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	High	1	<b>Land Use/Cover</b>	Yes	VACANT RESIDENTIAL/ HARDWOOD CONIFEROUS-MIXED
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>4</b>			

Notes: Hunt camp/boat launch in close proximity

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<b>Yellow River</b>	<b>ok-0424-006</b>	<i>Severity Score</i> <b>4</b>
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Common: 3.4mi NW of Crestview  
Drainage: Blackwater Bay GPS: 30.776486, -86.6249  
Land owner: RB: NFWFMD/ LB: John & Betty Carver

County: Okaloosa State: Florida  
PLSS(T-R-S): 3N-24W-11  
Parcel No.: 2/2.01



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	<b>303(d)</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Coarse Sand		
<i>LB: Riparian Buffer</i>	100+ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>4</b>			

Notes: Vegetated island becoming oxbow. Largest sand bar seen on the entire Yellow River  
 Private ATV trail leading down to site.

<h1>Yellow River</h1>	<h2>ok-0416-001</h2>	<i>Severity Score</i> <b>4</b>
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*Common:* 6.2mi SW of Crestview  
*Drainage:* Blackwater Bay      *GPS:* 30.703051848, -86.65072881  
*Land owner:* NFWFMD

*County:* Okaloosa      *State:* Florida  
*PLSS(T-R-S):* 2N-24W-4  
*Parcel No.:* 1



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1.5	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Mass Wasting	1.5	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>4</b>			

Notes: Data collected during flood stage- receding.

Private/primitive road 0.08mi west of the documented site, with a path leading to the river's edge

Since this occurs on an outside bend, it is likely that the erosion is mostly natural, with some contribution from the nearby path.

<h1>Yellow River</h1>	<h2>co-0805-005</h2>	<i>Severity Score</i> <h1>3.75</h1>
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Common: 16mi S of Andalusia  
Drainage: Blackwater Bay GPS: 31.0770612, -86.488424621  
Land owner: RB: USA / LB: James & Patricia Battles

County: Covington State: Alabama  
PLSS(T-R-S): 1N-16E-6  
Parcel No.: RB: 2/339AC / LB:1/272AC



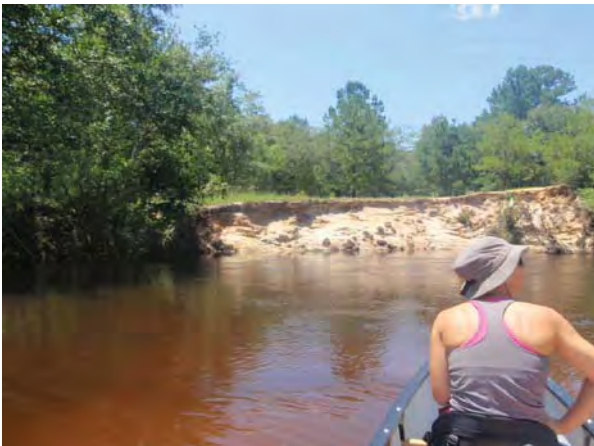
RB

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	N/A / SUCCESSIONAL SHRUB/SCRUB (CLEAR CUT)
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> None		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	30-49 ft	0.5	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>3.75</b>			

Notes: Lack of vegetation on left bank could lead to further active erosion.

<b>Shoal River</b>	<b>wa-0720-002</b>	<i>Severity Score</i> <b>3.5</b>
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Common: 14mi E of Crestview      County: Walton      State: Florida  
Drainage: Yellow River      GPS: 30.789053004, -86.330105543      PLSS(T-R-S): 4N-21W-35  
Land owner: RB: George & Barbara Baretto/ LB: Shoal River Oaks      Parcel No.: 1.027/ 2





RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	PARCELS WITH NO VALUES/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Slight	0.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>3.5</b>			

Notes: Power line crossing and unimproved private road coming off Plantation Ln.

Shoal River		ok-0615-011		Severity Score 3.5	
<u>Common:</u> 5mi NE of Crestview		<u>County:</u> Okaloosa		<u>State:</u> Florida	
<u>Drainage:</u> Yellow River		<u>PLSS(T-R-S):</u> 3N-22W-6		<u>GPS:</u> 30.78738993, -86.490213592	
<u>Land owner:</u> RB: Seagull Inc/ LB: Haiseal Timber Co		<u>Parcel No.:</u> 6.001/6.001 A			
					
RB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>3.5</b>			

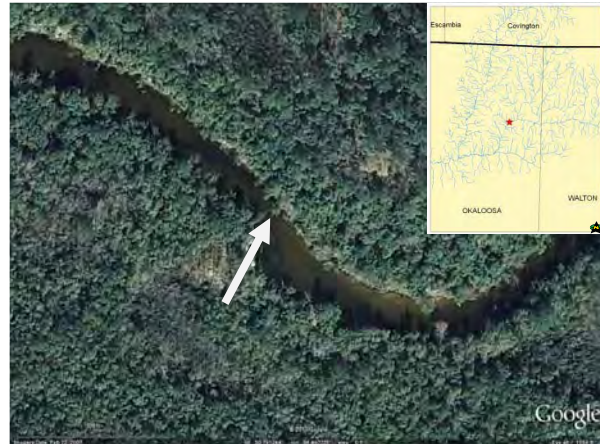
Notes: Lt Bank evidence of clear cutting. Rt bank aerials show a well defined historic meander pattern.

<b>Shoal River</b>	<b>ok-0615-005</b>	<i>Severity Score</i> <b>3.5</b>
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Common: 3.9mi E of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.791258301, -86.440516277      PLSS(T-R-S): 3N-22W-3  
Land owner: Haiseal Timber Co      Parcel No.: 3



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Clay		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>3.5</b>			

Notes: None.

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Shoal River		ok-0423-007		Severity Score 3.25	
<u>Common:</u> 3.6mi SE of Crestview		<u>County:</u> Okaloosa		<u>State:</u> Florida	
<u>Drainage:</u> Yellow River		<u>PLSS(T-R-S):</u> 3N-23W-26			
<u>Land owner:</u> Haiseal Timber Co		<u>Parcel No.:</u> 9			
<u>GPS:</u> 30.732367, -86.520503					
					
<b>RB</b>					
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>Feature</b>	<b>Within Range</b>	<b>Descriptive Field</b>
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not eroding	0	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	<b>Land Use/Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>3.25</b>			

Notes: Aggradational site.

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Shoal River		wa-0721-001	Severity Score 3
<u>Common:</u> 2.8mi N of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida	
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.784190629, -86.38280134	<u>PLSS(T-R-S):</u> 3N-21W-6		
<u>Land owner:</u> RB: Walter Billingsley/ LB: William Corley	<u>Parcel No.:</u> 1.1003/1.1		
			
<b>LB</b>			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>Feature Within Range Descriptive Field</b>
<i>Channel Stability</i>	Good	0.5	303(d) No N/A
<i>Channel Alteration</i>	None	0	Wetland Species No N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled Yes GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover Yes PARCELS WITH NO VALUES/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels No N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H. No N/A
<i>Pipe Discharge</i>	Not Present	0	
<i>Water Odors</i>	Not Present	0	
<i>Fish Passage Barrier</i>	Not Present	0	
<i>RB: Riparian Buffer</i>	100+ ft	0	
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	
<i>RB: Floodplain Access</i>	Full	0	
<i>LB: Floodplain Access</i>	Partial	0.25	
<b>River Threat Index:</b>		<b>3</b>	<b>Additional Site Features</b>
			<i>Stream Channel Woody Material:</i> Moderate
			<i>Impoundments:</i> None
			<i>Substrate Composition:</i> Medium Sand
			<i>Bank Material:</i> Sand

Notes: West of Laird Rd. Unpaved road on left bank, as seen in aerial, coming off of W.T. Hulion Rd.

<b>Shoal River</b>	<b>ok-0616-001</b>	<i>Severity Score</i> <b>3</b>
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Common: 4.5mi NE of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.77799366, -86.497928994      PLSS(T-R-S): 3N-23W-12  
Land owner: Rita Chimiak      Parcel No.: 2



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>3</b>			

Notes: Unpaved road on both banks. Aerials show evidence of past logging/clear cutting.

<b>Shoal River</b>	<b>ok-0615-003</b>	<i>Severity Score</i> <b>3</b>
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Common: 8.3mi NE of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.790678454, -86.434007707      PLSS(T-R-S): 3N-22W-3  
Land owner: Haiseal Timber Co      Parcel No.: 3



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>3</b>			

Notes: End of foot/ATV trail coming from the SE.

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<b>Yellow River</b>	<b>co-0807-001</b>	<i>Severity Score</i> <b>3</b>
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Common: 7.7mi NW of Libertyville      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.148090541, -86.389774939      PLSS(T-R-S): 2N-17E-7  
Land owner: T. Ivey Powell & Sons Inc.      Parcel No.: 3



**LB**

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	<b>303(d)</b>	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	No	N/A
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	No	N/A
<i>BEHI</i>	High	1	<b>Land Use/Cover</b>	No	N/A
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>3</b>			

Notes: Riparian reduced by silviculture.

<b>Shoal River</b>	<b>ok-0615-009</b>	<i>Severity Score</i> <b>2.75</b>
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Common: 7mi NE of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.793986084, -86.458852055      PLSS: 4N-22W-32  
Land owner: RB: Sammuell Cunningham/ LB: Joann Christensen      Parcel No.: 5 / 4.005



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.75</b>			

Notes: Unpaved private logging road 0.8mi N of bend.

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<b>Yellow River</b>	<b>ok-0609-014</b>	<b>Severity Score</b> <b>2.75</b>
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Common: 5.5mi SW of Laurel Hill  
Drainage: Blackwater Bay GPS: 30.949663, -86.551128  
Land owner: H.T.L. Family LTD Ptr

County: Okaloosa  
PLSS: 5N-23W-9  
Parcel No.: 1

State: Florida



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	<b>303d</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Coarse Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>2.75</b>			

Notes: Adjacent to logging operation. Areas of clear cutting and unpaved private road.

<b>Yellow River</b>	<b>ok-0609-011</b>	<b>Severity Score</b> <b>2.75</b>
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<u>Common:</u> 5.3mi NW of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.98557256, -86.5464569	<u>PLSS:</u> 6N-23W-28	
<u>Land owner:</u> H.T.L. Family LTD Ptr	<u>Parcel No.:</u> 1	



**LB**

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	<b>303(d)</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	No	N/A
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>2.75</b>			

Notes: Adjacent to silviculture site.

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<b>Shoal River</b>	<b>ok-0422-006</b>	<i>Severity Score</i> <b>2.75</b>
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Common: 4.7mi NE of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.697864096, -86.540875945      PLSS: 2N-23W-3  
Land owner: LB: Sammy Sowell/ RB: Haiseal Timber Co      Parcel No.: 4/ 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Low-Very Low	0	<b>Land Use/ Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i> Grass and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.75</b>			

Notes: Residence on LB

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<h1>Yellow River</h1>	<h2>co-0807-006</h2>	<b>Severity Score</b> <h1>2.75</h1>
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Common: 8.1mi SE of Libertyville      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.128073353, -86.421061485      PLSS: 2N-16E-23  
Land owner: Patricia Vick Moody      Parcel No.: 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> None		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>2.75</b>			

Notes: None.

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Yellow River	ok-0609-015	Severity Score 2.5
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<p><u>Common:</u> 5.7mi SW of Laurel Hill  <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.9529206, -86.5541652  <u>Land owner:</u> H.T.L. Family LTD Ptr</p>	<p><u>County:</u> Okaloosa  <u>PLSS:</u> 5N-23W-9  <u>Parcel No.:</u> 1</p>	<p><u>State:</u> Florida</p>
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RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303d	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.5</b>			

Notes: Adjacent to logging operation. Areas of clear cutting and unpaved private road.

<b>Yellow River</b>	<b>ok-0424-009</b>	<i>Severity Score</i> <b>2.5</b>
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<u>Common:</u> 3.3mi W of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.758808, -86.624611	<u>PLSS:</u> 3N-24W-14	
<u>Land owner:</u> Gillis & Dixie Powell Jr.	<u>Parcel No.:</u> 1	





**RB**



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	<b>303(d)</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not Eroding	0	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	High	1	<b>Land Use/Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	Yes	NARROW PIGTOE, SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Coarse Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Coarse Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.5</b>			

Notes: Large aggradational site with some vegetation indicating it is not a recent deposit.

Yellow River		ok-0424-008	Severity Score 2.5																																																																															
<u>Common:</u> 3.0mi W of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.766217, -86.620981 <u>Land owner:</u> Gillis & Dixie Powell Jr.		<u>County:</u> Okaloosa <u>PLSS:</u> 3N-24W-14 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																															
																																																																																		
<b>RB</b>																																																																																		
<table border="1"> <thead> <tr> <th>Risk Factor</th> <th>Ranking</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td><i>Channel Stability</i></td> <td>Poor</td> <td>1.5</td> </tr> <tr> <td><i>Channel Alteration</i></td> <td>None</td> <td>0</td> </tr> <tr> <td><i>Bank Erosion</i></td> <td>Historic</td> <td>0</td> </tr> <tr> <td><i>BEHI</i></td> <td>High</td> <td>1</td> </tr> <tr> <td><i>Local NPSP</i></td> <td>No Evidence</td> <td>0</td> </tr> <tr> <td><i>Shoring Structures</i></td> <td>Not Present</td> <td>0</td> </tr> <tr> <td><i>Pipe Discharge</i></td> <td>Not Present</td> <td>0</td> </tr> <tr> <td><i>Water Odors</i></td> <td>Not Present</td> <td>0</td> </tr> <tr> <td><i>Fish Passage Barrier</i></td> <td>Not Present</td> <td>0</td> </tr> <tr> <td><i>RB: Riparian Buffer</i></td> <td>100+ ft</td> <td>0</td> </tr> <tr> <td><i>LB: Riparian Buffer</i></td> <td>100+ ft</td> <td>0</td> </tr> <tr> <td><i>RB: Floodplain Access</i></td> <td>Full</td> <td>0</td> </tr> <tr> <td><i>LB: Floodplain Access</i></td> <td>Full</td> <td>0</td> </tr> <tr> <td colspan="2"><b>River Threat Index:</b></td> <td><b>2.5</b></td> </tr> </tbody> </table>	Risk Factor	Ranking	Score	<i>Channel Stability</i>	Poor	1.5	<i>Channel Alteration</i>	None	0	<i>Bank Erosion</i>	Historic	0	<i>BEHI</i>	High	1	<i>Local NPSP</i>	No Evidence	0	<i>Shoring Structures</i>	Not Present	0	<i>Pipe Discharge</i>	Not Present	0	<i>Water Odors</i>	Not Present	0	<i>Fish Passage Barrier</i>	Not Present	0	<i>RB: Riparian Buffer</i>	100+ ft	0	<i>LB: Riparian Buffer</i>	100+ ft	0	<i>RB: Floodplain Access</i>	Full	0	<i>LB: Floodplain Access</i>	Full	0	<b>River Threat Index:</b>		<b>2.5</b>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>Yes</td> <td>COLIFORMS, TURBIDITY, MERCURY</td> </tr> <tr> <td>Wetland Species</td> <td>Yes</td> <td>1-3 FOCAL SPECIES IN UPLAND AREAS</td> </tr> <tr> <td>Rare and Imperiled</td> <td>Yes</td> <td>ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER</td> </tr> <tr> <td>Land Use/Cover</td> <td>Yes</td> <td>N/A / STREAMS AND WATERWAYS</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>Yes</td> <td>N/A</td> </tr> <tr> <td colspan="3"><b>Additional Site Features</b></td> </tr> <tr> <td colspan="2"><i>Stream Channel Woody Material:</i></td> <td>Moderate</td> </tr> <tr> <td colspan="2"><i>Impoundments:</i></td> <td>None</td> </tr> <tr> <td colspan="2"><i>Substrate Composition:</i></td> <td>Medium Sand</td> </tr> <tr> <td colspan="2"><i>Bank Material:</i></td> <td>Sand</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS	Candidate Mussels	No	N/A	Sturgeon C.H.	Yes	N/A	<b>Additional Site Features</b>			<i>Stream Channel Woody Material:</i>		Moderate	<i>Impoundments:</i>		None	<i>Substrate Composition:</i>		Medium Sand	<i>Bank Material:</i>		Sand
Risk Factor	Ranking	Score																																																																																
<i>Channel Stability</i>	Poor	1.5																																																																																
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<i>Bank Erosion</i>	Historic	0																																																																																
<i>BEHI</i>	High	1																																																																																
<i>Local NPSP</i>	No Evidence	0																																																																																
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<i>Impoundments:</i>		None																																																																																
<i>Substrate Composition:</i>		Medium Sand																																																																																
<i>Bank Material:</i>		Sand																																																																																

Notes: Aggradational site. Large number of fresh deposits present.

<b>Shoal River</b>	<b>ok-0423-008</b>	<i>Severity Score</i> <b>2.5</b>
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Common: 3.7mi SE of Crestview, .10mi Upstream of I-10 bridge  
Drainage: Yellow River GPS: 30.728122, -86.521925  
Land owner: Haiseal Timber Co

County: Okaloosa  
PLSS: 3N-23W-26  
Parcel No.: 9

State: Florida



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	None	0	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.5</b>			

Notes: Aggradational site.

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<b>Yellow River</b>	<b>co-0824-004</b>	<b>Severity Score</b> <b>2.5</b>
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Common: 2.8mi SW of Horn Hill      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.219101448, -86.352660805      PLSS: 3N-17E-21  
Land owner: LB: Dixon Family LE/ RB: William Hurbert Henderson Jr.      Parcel No.: 1/2



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	Yes	SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	30-49 ft	0.5	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.5</b>			

Notes: New growth on eroded site

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<h1>Yellow River</h1>	<h2>co-0813-001</h2>	<i>Severity Score</i> <h1>2.5</h1>
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Common: 7.6mi SE of Libertyville      County: Covington      State: Alabama  
Drainage: Blackwater River      GPS: 31.181927338, -86.36002324      PLSS: 3N-17E-33  
Land owner: Rayonier Woodlands LLC      Parcel No.: 1/572AC



RB





Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2.5</b>			

Notes: Large logging operation directly west of this site with bare soil.

Road or drainage from this area is leading into the river.

May be the cause of excessive turbidity and sedimentation downstream.



Gum Creek		wa-1026-004	Severity Score 2.25																																				
<i>Common:</i> 7.7mi NW of DeFuniak Springs		<i>County:</i> Walton	<i>State:</i> Florida																																				
<i>Drainage:</i> Shoal River	<i>GPS:</i> 30.782837831, -86.22350037	<i>PLSS:</i> 3N-20W-2/3																																					
<i>Land owner:</i> Victoria Arlene Trustee		<i>Parcel No.:</i> 7; 1																																					
																																							
US																																							
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/Cover</td> <td>Yes</td> <td>AGRICULTURAL/ STREAMS AND WATERWAYS</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> <tr> <td colspan="3"><b>Additional Site Features</b></td> </tr> <tr> <td colspan="2"><i>Stream Channel Woody Material:</i></td> <td>Infrequent</td> </tr> <tr> <td colspan="2"><i>Impoundments:</i></td> <td>None</td> </tr> <tr> <td colspan="2"><i>Substrate Composition:</i></td> <td>Medium Sand Silt</td> </tr> <tr> <td colspan="2"><i>Bank Material:</i></td> <td>Silt</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A	<b>Additional Site Features</b>			<i>Stream Channel Woody Material:</i>		Infrequent	<i>Impoundments:</i>		None	<i>Substrate Composition:</i>		Medium Sand Silt	<i>Bank Material:</i>		Silt
Feature	Within Range	Descriptive Field																																					
303(d)	No	N/A																																					
Wetland Species	No	N/A																																					
Rare and Imperiled	No	N/A																																					
Land Use/Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS																																					
Candidate Mussels	No	N/A																																					
Sturgeon C.H.	No	N/A																																					
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<i>Impoundments:</i>		None																																					
<i>Substrate Composition:</i>		Medium Sand Silt																																					
<i>Bank Material:</i>		Silt																																					
<i>Channel Stability</i>	Good	0.5																																					
<i>Channel Alteration</i>	None	0																																					
<i>Bank Erosion</i>	Not Eroding	0																																					
<i>BEHI</i>	Low-Very Low	0																																					
<i>Local NPSP</i>	Obvious Sources	1.5																																					
<i>Shoring Structures</i>	Not Present	0																																					
<i>Pipe Discharge</i>	Not Present	0																																					
<i>Water Odors</i>	Not Present	0																																					
<i>Fish Passage Barrier</i>	Not Present	0																																					
<i>RB: Riparian Buffer</i>	50-99 ft	0.25																																					
<i>LB: Riparian Buffer</i>	100+ ft	0																																					
<i>RB: Floodplain Access</i>	Full	0																																					
<i>LB: Floodplain Access</i>	Full	0																																					
<b>River Threat Index:</b>		<b>2.25</b>																																					

Notes: Old fence in stream and small creek on right bank.

Appears to be an access point for livestock, but there are none currently around.

Also an unpaved road on top of the left bank, as seen in the aerial.

<b>Gum Creek</b>	<b>wa-1026-003</b>	<i>Severity Score</i> <b>2.25</b>
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*Common:* 7.4mi NW of De Funiak Springs      *County:* Walton      *State:* Florida  
*Drainage:* Shoal River      *GPS:* 30.793090229, -86.207789388      *PLSS:* 3N-20W-2  
*Land owner:* William Davis      *Parcel No.:* 1



**LB**



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>2.25</b>			

Notes: Private road on top of left bank. Agricultural land use.

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Big Swamp Creek		wa-1009-001	Severity Score 2																																				
<u>Common:</u> 8.8mi NW of De Funiak Springs		<u>County:</u> Walton	<u>State:</u> Florida																																				
<u>Drainage:</u> Shoal River	<u>GPS:</u> 30.78994788, -86.24147281	<u>PLSS:</u> 0N-00W-00																																					
<u>Land owner:</u> W: NWFL Girl Scouts / E: William & Carmie Vines		<u>Parcel No.:</u> 2/ 1.005																																					
																																							
RB																																							
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>Yes</td> <td>GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB</td> </tr> <tr> <td>Land Use/Cover</td> <td>Yes</td> <td>INSTITUTIONAL/ STREAMS AND WATERWAYS</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> <tr> <td colspan="3"><b>Additional Site Features</b></td> </tr> <tr> <td colspan="2"><u>Stream Channel Woody Material:</u></td> <td>Moderate</td> </tr> <tr> <td colspan="2"><u>Impoundments:</u></td> <td>None</td> </tr> <tr> <td colspan="2"><u>Substrate Composition:</u></td> <td>Medium Sand</td> </tr> <tr> <td colspan="2"><u>Bank Material:</u></td> <td>Medium Sand</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB	Land Use/Cover	Yes	INSTITUTIONAL/ STREAMS AND WATERWAYS	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A	<b>Additional Site Features</b>			<u>Stream Channel Woody Material:</u>		Moderate	<u>Impoundments:</u>		None	<u>Substrate Composition:</u>		Medium Sand	<u>Bank Material:</u>		Medium Sand
Feature	Within Range	Descriptive Field																																					
303(d)	No	N/A																																					
Wetland Species	No	N/A																																					
Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB																																					
Land Use/Cover	Yes	INSTITUTIONAL/ STREAMS AND WATERWAYS																																					
Candidate Mussels	No	N/A																																					
Sturgeon C.H.	No	N/A																																					
<b>Additional Site Features</b>																																							
<u>Stream Channel Woody Material:</u>		Moderate																																					
<u>Impoundments:</u>		None																																					
<u>Substrate Composition:</u>		Medium Sand																																					
<u>Bank Material:</u>		Medium Sand																																					
<i>Channel Stability</i>	Good	0.5																																					
<i>Channel Alteration</i>	In Recovery	1																																					
<i>Bank Erosion</i>	Historic	0.5																																					
<i>BEHI</i>	Low-Very Low	0																																					
<i>Local NPSP</i>	No Evidence	0																																					
<i>Shoring Structures</i>	Not Present	0																																					
<i>Pipe Discharge</i>	Not Present	0																																					
<i>Water Odors</i>	Not Present	0																																					
<i>Fish Passage Barrier</i>	Not Present	0																																					
<i>RB: Riparian Buffer</i>	100+ ft	0																																					
<i>LB: Riparian Buffer</i>	100+ ft	0																																					
<i>RB: Floodplain Access</i>	Full	0																																					
<i>LB: Floodplain Access</i>	Full	0																																					
<b>River Threat Index:</b>		<b>2</b>																																					

Notes: No substantial riparian coverage. Small, uncut grasses

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<b>Shoal River</b>	<b>wa-0721-002</b>	<i>Severity Score</i> <b>2</b>
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*Common:* 11.2mi NE of Crestview, 0.16 W of Laird Rd bridge crossing *County:* Walton *State:* Florida  
*Drainage:* Yellow River *GPS:* 30.785403799, -86.384180518 *PLSS:* 3N-21W-6  
*Land owner:* RB: Walter Billingsley / LB: William Corley *Parcel No.:* 1.1003/ 1.1



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	AGRICULTURAL,PARCELS WITH NO VALUE/ STREAMS AND WATERWAYS, HARDWOOD CONIFEROUS-MIXED
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2</b>			

Notes: None.

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<b>Shoal River</b>	<b>ok-0721-005</b>	<i>Severity Score</i> <b>2</b>
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<p><u>Common:</u> 9.6mi NE of Crestview  <u>Drainage:</u> Yellow River      <u>GPS:</u> 30.784689, -86.410658  <u>Land owner:</u> Ray Const</p>	<p><u>County:</u> Okaloosa  <u>PLSS:</u> 3N-22W-2  <u>Parcel No.:</u> 4</p>	<p><u>State:</u> Florida</p>
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RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2</b>			

Notes: Natural meander bend.

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<b>Shoal River</b>	<b>ok-0721-003</b>	<i>Severity Score</i> <b>2</b>
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Common: 10.3mi NW of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.780504912, -86.397877118      PLSS: 3N-22W-1  
Land owner: Haiseal Timber Co      Parcel No.: 3



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	AGRICULTURAL/ ELECTRICAL POWER TRANSMISSION LINES
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2</b>			

Notes: None

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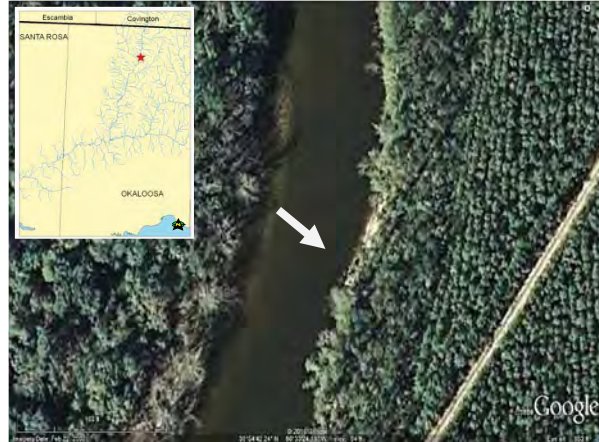
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<b>Yellow River</b>	<b>ok-0608-006</b>	<i>Severity Score</i> <b>2</b>
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<p><u>Common:</u> 6.9mi SW of Laurel Hill  <u>Drainage:</u> Blackwater Bay      <u>GPS:</u> 30.911646, -86.556784  <u>Land owner:</u> H.T.L. Family LTD Ptr</p>	<p><u>County:</u> Okaloosa  <u>PLSS:</u> 5N-23W-21  <u>Parcel No.:</u> 1</p>	<p><u>State:</u> Florida</p>
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**LB**



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	<b>303(d)</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	<i>Bank Material:</i> Clay		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>2</b>			

Notes: Silviculture land use. Unpaved private road on LB

Shoal River		ok-0422-005		Severity Score 2	
<u>Common:</u> 4.5mi SE of Crestview		<u>County:</u> Okaloosa		<u>State:</u> Florida	
<u>Drainage:</u> Yellow River		<u>PLSS:</u> 2N-23W-3		<u>GPS:</u> 30.70517488, -86.533003383	
<u>Land owner:</u> Haiseal Timber Co		<u>Parcel No.:</u> 1			
					
<b>RB</b>					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Leaf Litter		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2</b>			

Notes: Extremely shallow section of the river.

This sediment bar extents very far into the channel, leaving little room for the thalweg.



<b>Shoal River</b>	<b>ok-0422-003</b>	<i>Severity Score</i> <b>2</b>
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Common: 4.5mi SE of Crestview      County: Okaloosa      State: Florida  
Drainage: Yellow River      GPS: 30.69905532, -86.591123401      PLSS: 2N-23W-26  
Land owner: NFWFMD      Parcel No.: 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand and Coarse Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2</b>			

Notes: Natural depository feature, resulting from recent and historic flooding.

<b>Yellow River</b>	<b>co-0824-005</b>	<i>Severity Score</i> <b>2</b>
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Common: 7.5mi from Opp      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.215655394, -86.355431487      PLSS: 3N-17E-21  
Land owner: Dixon Family LE      Parcel No.: 1



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	0	Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	Yes	SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2</b>			

Notes: None

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Yellow River		co-0609-007	Severity Score 2		
<p><u>Common:</u> 12.5mi NW of Florala  <u>Drainage:</u> Mississippi River <u>GPS:</u> 31.0362019, -86.5351409  <u>Land owner:</u> RB: Carl &amp; Rita Lawson/  LB: Wesley Laird &amp; Allen Woodard</p>		<p><u>County:</u> Covington <u>State:</u> Alabama  <u>PLSS:</u> 1N-15E-22  <u>Parcel No.:</u> 4/ 4.02</p>			
					
<p><b>RB</b></p>					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2</b>			

Notes: Aggradational site: Large fresh deposits common with localized deposition on top of low bank. Moderate number of deep pools.

Yellow River	co-0609-005	Severity Score 2
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Common: 12.2mi NW of Florala      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.04178406, -86.527705378      PLSS: 1N-15E-23  
Land owner: USA- Conecuh Nat. Forest.      Parcel No.: 2



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/ Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Clay Marl and Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>2</b>			

Notes: Large aggradational site.

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<b>Shoal River</b>	<b>wa-0720-004</b>	<i>Severity Score</i> <b>1.75</b>
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Common: 12.1mi NE of Crestview      County: Walton      State: Florida  
Drainage: Yellow River      GPS: 30.78619569, -86.37058976      PLSS: 3N-21W-5  
Land owner: Thomas Grandstaff Jr      Parcel No.: 4.0001



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	<b>Rare and Imperiled</b>	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	0	<b>Land Use/Cover</b>	No	N/A
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: Power line crossing

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Shoal River		ok-0423-006	Severity Score 1.75		
<u>Common:</u> 3.5mi SE of Crestview		<u>County:</u> Okaloosa	<u>State:</u> Florida		
<u>Drainage:</u> Yellow River	<u>GPS:</u> 30.734083, -86.520383	<u>PLSS:</u> 3N-23W-26			
<u>Land owner:</u> Haiseal Timber Co		<u>Parcel No.:</u> 3			
					
LB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not eroding	0	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium and Fine Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: Aggradational site: Large, fresh deposits common and low to moderate number of deep pools.

<h1>Yellow River</h1>	<h2>co-0807-007</h2>	<b>Severity Score</b> <h1>1.75</h1>
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Common: 8.5mi SE of Libertyville      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.121751768, -86.422966052      PLSS: 2N-16E-13  
Land owner: Patricia Vick Moody      Parcel No.: 1



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> None		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: Natural meander incision. Highly vegetated bank.

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<b>Yellow River</b>	<b>co-0609-008</b>	<i>Severity Score</i> <b>1.75</b>
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<u>Common:</u> 12.6mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.03210119, -86.538494	<u>PLSS:</u> 1N-15E-22	
<u>Land owner:</u> RB: USA/ LB: Wesley Laird & Allen Woodard	<u>Parcel No.:</u> 3/ 4.02	



RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Low- Very Low	0	Land Use/ Cover	Yes	N/A/ ROW CROP
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.75</b>			

Notes: Nearby road runs parallel to river 60 feet east.

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<b>Yellow River</b>	<b>ok-0608-005</b>	<i>Severity Score</i> <b>1.5</b>
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<p><u>Common:</u> 9.4mi N of Crestview  <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.898726, -86.563853  <u>Land owner:</u> H.T.L. Family LTD Ptr</p>	<p><u>County:</u> Okaloosa  <u>PLSS:</u> 5N-23W-29  <u>Parcel No.:</u> 1</p>	<p><u>State:</u> Florida</p>
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RB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	High	1	Land Use/Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.5</b>			

Notes: Aggradational Site: Large, fresh deposits are uncommon. Some build up on top of low banks.

<b>Yellow River</b>	<b>ok-0608-003</b>	<b>Severity Score</b> <b>1.5</b>
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Common: 6.7mi N of Crestview      County: Okaloosa      State: Florida  
Drainage: Blackwater Bay      GPS: 30.870603353, -86.581355104      PLSS: 4N-23W-6  
Land owner: LB: U.I.L Family LTD Ptr / RB: NFWFMD      Parcel No.: 5/4



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	<b>303(d)</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	No	N/A
<i>Bank Erosion</i>	Historic	0.5	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>Local NPSP</i>	No Evidence	0	<b>Land Use/Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Shoring Structures</i>	Not Present	0	<b>Candidate Mussels</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Water Odors</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Impoundments:</i> None		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Clay		
<i>RB: Floodplain Access</i>	Full	0	<i>Bank Material:</i> Clay		
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.5</b>			

Notes: Adjacent to silviculture site with large clear cut areas

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<b>Yellow River</b>	<b>ok-0424-010</b>	<i>Severity Score</i> <b>1.5</b>
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*Common:* 3.2mi SW of Crestview      *County:* Okaloosa      *State:* Florida  
*Drainage:* Blackwater Bay      *GPS:* 30.757006293, -86.625170177      *PLSS:* 3N-24W-14  
*Land owner:* Gillis & Dixie Powell Jr.      *Parcel No.:* 1



**RB**



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	<b>303(d)</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	<b>Rare and Imperiled</b>	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	Yes	NARROW PIGTOE, SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.5</b>			

Notes: None.

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<b>Yellow River</b>	<b>co-0824-003</b>	<b>Severity Score</b> <b>1.5</b>
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Common: 6.6mi SE of Libertyville      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.222594183, -86.351242666      PLSS: 3N-17E-16  
Land owner: Patricia Vick Moody      Parcel No.: 1



**RB**



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	<b>303(d)</b>	No	N/A
<i>Channel Alteration</i>	None	0	<b>Wetland Species</b>	No	N/A
<i>Bank Erosion</i>	Historic	0.5	<b>Rare and Imperiled</b>	No	N/A
<i>BEHI</i>	Moderate	0.5	<b>Land Use/Cover</b>	Yes	N/A / EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	No Evidence	0	<b>Candidate Mussels</b>	No	N/A
<i>Shoring Structures</i>	Not Present	0	<b>Sturgeon C.H.</b>	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Numerous		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.5</b>			

Notes: None.

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<b>Yellow River</b>	<b>co-0609-004</b>	<b>Severity Score</b> <b>1.5</b>
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<u>Common:</u> 11.8mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.0501274, -86.519192	<u>PLSS:</u> 1N-15E-14	
<u>Land owner:</u> LB: Nathaniel Wright, Tr. / RB: USA	<u>Parcel No.:</u> 3/1	



**RB**

Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	METALS- MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1.5</b>			

Notes: None

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<h1>Yellow River</h1>	<h2>ok-0609-013</h2>	<i>Severity Score</i> <b>1</b>
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<u>Common:</u> 5.8 W of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.9615637, -86.555512	<u>PLSS:</u> 5N-23W-4	
<u>Land owner:</u> Ray Construction of Okaloosa County	<u>Parcel No.:</u> 2	



**RB**



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Low-Very Low	0	Land Use/Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1</b>			

Notes: Path leading down to point bar on LB. Large clear cut area on RB, partially see in above aerial photo.

<b>Yellow River</b>	<b>co-0824-001</b>	<i>Severity Score</i> <b>1</b>
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Common: 1.3mi SW of Horn Hill      County: Covington      State: Alabama  
Drainage: Blackwater Bay      GPS: 31.239741367, -86.337871556      PLSS: 3N-17E-10  
Land owner: Unknown      Parcel No.: 8



US



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Excellent	0	303(d)	No	N/A
<i>Channel Alteration</i>	Historic	0.5	Wetland Species	No	N/A
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	No	N/A
<i>BEHI</i>	Low-Very Low	0	Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	Yes	CHOCTAW BEAN
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Roots		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>0.5</b>			

Notes: River braided under bridge crossing.

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<h1>Yellow River</h1>	<h2>co-0819-001</h2>	<i>Severity Score</i> <b>1</b>
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Common: 3.4mi SW of Horn Hill  
Drainage: Blackwater Bay GPS: 31.210386, -86.357481  
Land owner: LB: Rayonier Woodlands LLC/  
RB: T. Ivey Powell & Sons Inc

County: Covington  
PLSS: 3N-17E-21  
Parcel No.: 4/3

State: Alabama



LB



Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	Historic, Mostly Recovered	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Low-Very Low	0	Land Use/Cover	Yes	N/A / EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	Yes	SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	<b>Additional Site Features</b>		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
<b>River Threat Index:</b>		<b>1</b>			

Notes: Some erosion, but may be a natural meander incision.



<h1>Unnamed tributary</h1>	<h2>wa-0714-r-004</h2>	<i>Sedimentation Risk Index</i> <b>28</b>
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<p><u>Common:</u> 7.7mi NW of De Funiak Springs  <u>Drainage:</u> Gum Creek <i>GPS:</i> 30.805717, -86.199142  <u>Land owner:</u> Mary &amp; Ted Frymire-US, Gloria Courtney-DS</p>	<p><u>County:</u> Walton <u>State:</u> Florida  <u>PLSS(T-R-S):</u> 4N-20-36  <u>Parcel No.:</u> 5.001; 2.9  <u>Road Name:</u> Andrews Rd</p>
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Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>28</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ HYDRIC PINE FLATWOODS, UNIMPROVED PASTURES, HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: 15,31,32  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Notes: DS drop off

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Unnamed tributary	ok-0429-r-005	Sedimentation Risk Index <b>30</b>
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<u>Common:</u> 4.4mi W of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.741414552, -86.641121324	<u>PLSS(T-R-S):</u> 3N-24-22	
<u>Land owner:</u> T.V. Kolmetz	<u>Parcel No.:</u> 3.20010	
	<u>Road Name:</u> Al Gillman Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	4,6,12,13,27,34,36,43,49,50,51,52	
<i>Rt Approach Prism Fill:</i>	0.1in	
<i>Lt Approach Prism Fill:</i>	0.2in	



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	N/A/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Private impounded system

Unnamed tributary	ok-0429-r-008	Sedimentation Risk Index <b>30</b>
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Common: 5.0mi W of Crestview  
Drainage: Yellow River GPS: 30.735068394, -86.649976145  
Land owner: James A. Gillman- US, Jake & Julia Phillips- DS

County: Okaloosa State: Florida  
PLSS(T-R-S): 3N-24-28  
Parcel No.: 2, 6  
Road Name: Al Gillman Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>30</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1?	
<i>Crossing Materials:</i>	Unknown	
<i>Soil Types:</i>	4,6,12,13,27,34,36,43,49,50,51,52	
<i>Rt Approach Prism Fill:</i>	1.0in	
<i>Lt Approach Prism Fill:</i>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
Wetland Species	No	N/A
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	AGRICULTURAL / HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Crossing structure unknown- inaccessible due to fenced off private property.

Unnamed tributary	co-0831-r-013	Sedimentation Risk Index <b>32</b>
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<u>Common:</u> 7.9mi SW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Indian Creek <u>GPS:</u> 31.195797, -86.343972	<u>PLSS (T-R-S):</u> 3N-17E-27	
<u>Land owner:</u> Unknown- Under 5AC not displayed	<u>Parcel No.:</u> Unknown	
	<u>Road Name:</u> Coon Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoB,CdC,MBA,OrC,OrE,TrB
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.25in

Notes: Fence across DS

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Unnamed tributary	ok-0415-r-001	Sedimentation Risk Index <b>32</b>
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<u>Common:</u> 5.8mi NW of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Cotton Creek <u>GPS:</u> 30.822903945, -86.637095506	<u>PLSS(T-R-S):</u> 4N-24-27	
<u>Land owner:</u> Ronald Lemoyne Showers-US, Leah Helms-DS	<u>Parcel No.:</u> 4-023/4-000	
	<u>Road Name:</u> Cotton Creek Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<b>Outlet Total</b>	Partially Improved Outlet System	<b>3</b>
<b>Ditches Total</b>	Partially Improved Drainage System	<b>3</b>
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 3  
Crossing Materials: Metal  
Soil Types: 23,24,26,43,49  
Rt Approach Prism Fill: 2.5in  
Lt Approach Prism Fill: 2.0in

Notes: Pipe discharging US LT outlet. Road approaches in disrepair- not drivable.

Unnamed tributary	wa-0714-r-008	Sedimentation Risk Index <b>32</b>
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<u>Common:</u> 10.5mi NW of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Big Swamp Creek <u>GPS:</u> 30.856442,-86.192545	<u>PLSS(T-R-S):</u> 4N-20-12	
<u>Land owner:</u> J.B. & Betty Coon-US, R&J Farm LLC-DS	<u>Parcel No.:</u> 5.001; 1.001	
	<u>Road Name:</u> Brown Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 2	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	22,60	
<i>Rt Approach Prism Fill:</i>	1.0in	
<i>Lt Approach Prism Fill:</i>	1.0in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ FOREST REGENERATION AREAS, FALLOW CROP LAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Sediment island forming in pond due to loading from culvert. Fencing across DS pond access.

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Unnamed tributary	wa-0723-r-001	Sedimentation Risk Index <b>32</b>
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<u>Common:</u> 6.3mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Caney Creek <u>GPS:</u> 30.943976144, -86.223062475	<u>PLSS (T-R-S):</u> 5N-20-10-3000	
<u>Land owner:</u> Elizabeth Bopp-DS, Halver Brown Jr-US	<u>Parcel No.:</u> 7; 8	
	<u>Road Name:</u> Davis Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	D	1
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>32</b>

Additional Site Features	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	6,13,14,15,31,32,59,60
<u>Rt Approach Prism Fill:</u>	1.0in
<u>Lt Approach Prism Fill:</u>	1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ MIXED SCRUB-SHRUB WETLAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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Unnamed tributary	co-0904-r-005	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 6.9mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.238533971, -86.399938336	<u>PLSS (T-R-S):</u> 3N-16E-12	
<u>Land owner:</u> Dixon Family -US, Rayonier Woodlands LLC -DS	<u>Parcel No.:</u> 4; 5	
	<u>Road Name:</u> Willy Moore Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: CdB,CdC,DmB  
Rt Approach Prism Fill: 0.4in  
Lt Approach Prism Fill: 0.25in

Notes: High bare sediment fill over culvert.

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Unnamed tributary	co-0904-r-013	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 8.2mi SE of Andalusia <u>Drainage:</u> Taylor Mill Creek <i>GPS:</i> 31.244398941, -86.366858575 <u>Land owner:</u> J.E. Suggs -US, Delmar & Shirley Wiggins -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-8 <u>Parcel No.:</u> 1; 7.01 <u>Road Name:</u> J.D. White Rd	<u>State:</u> Alabama
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Crossing Structure:



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Culvert, 1
<i>Crossing Materials:</i>	PVC
<i>Soil Types:</i>	BnB,CdB,CdC,OrC
<i>Rt Approach Prism Fill:</i>	0.1in
<i>Lt Approach Prism Fill:</i>	0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culvert mostly buried. Ponded farther US.

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Unnamed tributary	co-0904-r-014	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 7.9mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Taylor Mill Creek <i>GPS:</i> 31.252739496, -86.366697254	<u>PLSS (T-R-S):</u> 3N-17E-5	
<u>Land owner:</u> Timmy Kendrick -DS, Warren White -US	<u>Parcel No.:</u> 11; 15	
	<u>Road Name:</u> J.D. White Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: BnB,CdB,CdC,MBA,OrE,TrB  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Notes: Some build up of woody material US. Rip rap in stream channel.

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Unnamed tributary	co-1027-r-007	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 5.5mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Mulberry Creek GPS: 31.344206188, -86.315045276	<u>PLSS (T-R-S):</u> 4N-17E-2	
<u>Land owner:</u> Mary Bobo -US, Jack & Mary Odom -DS	<u>Parcel No.:</u> 1.02; 16	
	<u>Road Name:</u> Oscar Pugh Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
US Channel Morph	PONDED	1
DS Channel Morph	C	5
DS Bank Alteration	HIGH	1
Upstream Skew Angle	5-30°	3
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	No Impairment	5
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	21-40 y <sup>3</sup>	3
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Bare soil	0
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Bare soil	0
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: CdB,CdC,MBA,OrB,OrC,OrE  
Rt Approach Prism Fill: 0.75in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB, SCRUB (OTHER), EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 1 culvert draining pond with 1.5ft drop off, 2<sup>nd</sup> culvert for road crossing.

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<h1>Unnamed tributary</h1>	<h2>ok-0526-r-007</h2>	<b>Sedimentation Risk Index</b> <h1>34</h1>
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<u>Common:</u> 2.9mi NE of Blackman	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Big Horse Creek <u>GPS:</u> 30.965411, -86.626289	<u>PLSS(T-R-S):</u> 5N-24-03	
<u>Land owner:</u> James Hart- US, Lonnie Hughes Jr-DS	<u>Parcel No.:</u> 4, 1.0040	
	<u>Road Name:</u> Horsecreek Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: 35,39,40,52

Rt Approach Prism Fill: 1.0in

Lt Approach Prism Fill: 1.0in

Notes: Culvert inlet collecting woody debris.

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Unnamed tributary	wa-0714-r-009	Sedimentation Risk Index <b>34</b>
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<u>Common:</u> 10.6mi NW of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Big Swamp Creek <u>GPS:</u> 30.858440, -86.196613	<u>PLSS(T-R-S):</u> 4N-20-12	
<u>Land owner:</u> Ronald & David Herring	<u>Parcel No.:</u> 1.002	
	<u>Road Name:</u> Brown Rd	



Crossing Structure: US

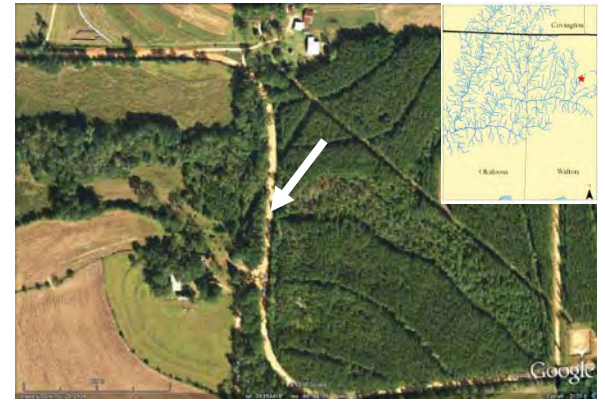


DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>High Risk</b>	<b>34</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	13,15,25,26,31
<u>Rt Approach Prism Fill:</u>	1.0in
<u>Lt Approach Prism Fill:</u>	3.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPED DARTER
Land Use/Cover	Yes	AGRICULTURAL/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Directly DS from impounded system of previous crossing.

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Unnamed tributary	co-0904-r-015	Sedimentation Risk Index <b>36</b>
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<u>Common:</u> 6.1mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Anderson Branch <u>GPS:</u> 31.264062340, -86.394527585	<u>PLSS (T-R-S):</u> 4N-17E-31/3N-17E-6	
<u>Land owner:</u> Roy & Debbie -US, James & Mertha Carter -DS	<u>Parcel No.:</u> 8;4	
	<u>Road Name:</u> Cotton House Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>High Risk</b>	<b>36</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	CdC,DmB,FoA,FuB,MBA
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.2in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across DS.

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Unnamed tributary	co-1027-r-005	Sedimentation Risk Index <b>36</b>
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<u>Common:</u> 6.0mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.344301959, -86.326408847	<u>PLSS (T-R-S):</u> 4N-17E-2	
<u>Land owner:</u> Oscar Pugh - DS, Robert & Janell Morgan -US	<u>Parcel No.:</u> 13; 14	
	<u>Road Name:</u> Oscar Pugh Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Rip Rap	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>High Risk</b>	<b>36</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BnB,CdB,CdC,OrB,OrC,OrE  
Rt Approach Prism Fill: 0.75in  
Lt Approach Prism Fill: 1.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ LOW INTENSITY DEVELOPED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Outfall drop

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<h1 style="margin:0;">Indigo Creek</h1>	<h2 style="margin:0;">ok-0429-r-002</h2>	<i>Sedimentation Risk Index</i> <h1 style="margin:0;">36</h1>
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<u>Common:</u> 4.1mi E of Holt	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <i>GPS:</i> 30.729581195, -86.677171871	<u>PLSS(T-R-S):</u> 3N-24-30	
<u>Land owner:</u> Dorothy Kennedy	<u>Parcel No.:</u> 6	
	<u>Road Name:</u> Gilmore Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>High Risk</b>	<b>36</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ FRESHWATER MARSHES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: 12,13,23,24,25,34,36,37,43,49  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.1in

Notes: Turbidity curtain DS and silt fencing in place both US/DS. Failing BMPs.

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<b>Unnamed tributary</b>	<b>co-0729-r-005</b>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> 5.2mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.002444, -86.535722	<u>PLSS (T-R-S):</u> 1N-15E-34	
<u>Land owner:</u> Rayonier Woodlands LLC- US; Unknown-DS	<u>Parcel No.:</u> 7	
	<u>Road Name:</u> Walker Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



Feature	Within Range	Descriptive Field
303(d)	Yes	METALS (MERCURY)
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	BgA,FoA,IbA,KaA,MBA,TrD
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.5in

Notes: Rt culvert blocked with sediment.

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Unnamed tributary	co-0831-r-010	Sedimentation Risk Index <b>38</b>
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<u>Common:</u> 6.3mi SW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Indian Creek <u>GPS:</u> 31.216278, -86.329078	<u>PLSS (T-R-S):</u> 3N-17E-22/23	
<u>Land owner:</u> Clidie Lee Harper LE-DS, Carolyn & Ben Ellis Jr.-US	<u>Parcel No.:</u> 1; 14	
	<u>Road Name:</u> Harrell Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	PVC
<u>Soil Types:</u>	CdB, CdC, FuB, OrC, OrE
<u>Rt Approach Prism Fill:</u>	0.75in
<u>Lt Approach Prism Fill:</u>	0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<b>Canoe Creek</b>	<b>ok-0429-r-001</b>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> 7.4mi E of Harold	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.672943718, -86.756427066	<u>PLSS(T-R-S):</u> 2N-25-16	
<u>Land owner:</u> Richard & Genevieve George-US, John & Vickie	<u>Parcel No.:</u> 3, 3.1250	
Howzie-DS	<u>Road Name:</u> Log Lake Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 3; Bridge, 1	
<i>Crossing Materials:</i>	Metal; Wood	
<i>Soil Types:</i>	43,50	
<i>Rt Approach Prism Fill:</i>	0.75in	
<i>Lt Approach Prism Fill:</i>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Impoundment causing fish blockage. 3 culverts US 30ft from bridge.

# Little Horse Creek

ok-0526-r-005

Sedimentation Risk Index  
**38**

Common: 3.6mi NE of Blackman  
Drainage: Big Horse Creek GPS: 30.966150, -86.603157  
Land owner: Charles & Wanda Baston

County: Okaloosa  
PLSS(T-R-S): 5N-24-01  
Parcel No.: 4  
Road Name: Johnson Rd

State: Florida



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	C	5
DS Bank Alteration	HIGH	1
Upstream Skew Angle	>30°	1
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	No Impairment	5
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	21-40 y <sup>3</sup>	3
Approach Slope Mean	<2%	5
Soil K Factor	<0.20	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Bare soil	0
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Bare soil	0
<b>Outlet Total</b>	Partially Improved Outlet System	<b>3</b>
<b>Ditches Total</b>	Partially Improved Drainage System	<b>3</b>
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>

**Additional Site Features**

Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 38,39,40,41,43,52,56  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 1.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/IMPROVED PASTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Wire spanning under bridge. DS.

<h1>Clear Creek</h1>	<h2>ok-1005-r-002</h2>	<i>Sedimentation Risk Index</i> <b>38</b>
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<p><u>Common:</u> 7.2mi NE of Crestview  <u>Drainage:</u> Poverty Creek    <i>GPS:</i> 30.812152272, -86.463812135  <u>Land owner:</u> Clear Creek Investments-US, Thomas &amp; Shirley Akers-DS</p>	<p><u>County:</u> Okaloosa                      <u>State:</u> Florida  <u>PLSS(T-R-S):</u> 4N-22-29  <u>Parcel No.:</u> 1.1370/1.0900  <u>Road Name:</u> Clear Creek Dam Rd</p>
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Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>38</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ RESERVOIRS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 20,24,25,50  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 1.0in

Notes: DS drop off. Water control structure.

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Unnamed tributary	wa-0714-r-007	Sedimentation Risk Index <b>38</b>
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<u>Common:</u> 10.3mi NW of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Big Swamp Creek <u>GPS:</u> 30.855673, -86.191371	<u>PLSS(T-R-S):</u> 4N-20-12	
<u>Land owner:</u> J.B. & Betty Coon-DS, Unknown US	<u>Parcel No.:</u> 5.001	
	<u>Road Name:</u> Bryan Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	22,25,60
<u>Rt Approach Prism Fill:</u>	2.0in
<u>Lt Approach Prism Fill:</u>	3.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ FALLOW CROP LAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Impounded system directly DS at next crossing.

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<h1>Unnamed tributary</h1>	<h2>wa-0722-r-008</h2>	<i>Sedimentation Risk Index</i> <b>38</b>
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<u>Common:</u> 5.3mi N of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Gum Creek <i>GPS:</i> 30.795394, -86.138400	<u>PLSS (T-R-S):</u> 4N-19-34-20000	
<u>Land owner:</u> Russell Ray- US, Dennis Ray-DS	<u>Parcel No.:</u> 1.10; 9	
	<u>Road Name:</u> Piney Grove Church Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>38</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: 10,11,13,22,23,35,39  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 1.0in

Notes: None

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Unnamed tributary	wa-0723-r-002	Sedimentation Risk Index <b>38</b>
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<u>Common:</u> 7.6mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Caney Creek <i>GPS:</i> 30.940363380, -86.226391177	<u>PLSS (T-R-S):</u> 5N-20-10-30000	
<u>Land owner:</u> Elizabeth Bopp-US, Orabelle Goodwin-DS	<u>Parcel No.:</u> 7; 8	
	<u>Road Name:</u> Adams Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>38</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ MIXED SCRUB-SHRUB WETLAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 4
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	6,15,59,60
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	1.0in

Notes: None



Unnamed tributary	cf-1103-r-008	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 1.0mi NE of Danleys Crossroads	<u>County:</u> Coffee	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.42209700,-86.182725070	<u>PLSS (T-R-S):</u> 5N-19-07	
<u>Land owner:</u> G.A. Lindsey	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> CR 374	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert,2  
Crossing Materials: Metal  
Soil Types: 7,8,21,22  
Rt Approach Prism Fill: 0.15in  
Lt Approach Prism Fill: 0.15in

Notes: Garbage DS; culverts coming from 2 different angles US.

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Unnamed tributary	co-0731-r-001	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 4mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Larkin Creek <u>GPS:</u> 31.015056, -86.495487	<u>PLSS (T-R-S):</u> 1N-16E-30	
<u>Land owner:</u> Rayonier Forest Resources LP-US, Unknown -DS	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> Booth Rd	



Crossing Structure:



US

Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	DA	3
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Sed Islands/Scouring	3
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	>40 y <sup>3</sup>	1
Approach Slope Mean	<2%	5
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoC,CdC,MBA,OrE,TrB,TrD  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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Unnamed tributary	co-0831-r-008	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 6.8mi SW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Indian Creek	<u>PLSS (T-R-S):</u> 3N-17E-22/23	
<u>Land owner:</u> C&G LLC	<u>Parcel No.:</u> 11	
	<u>Road Name:</u> Harrell Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	B	5
DS Bank Alteration	HIGH	1
Upstream Skew Angle	5-30°	3
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	Sed Islands/Scouring	3
Road Approach Material	All Aggregate	5
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	<2%	5
Soil K Factor	<0.20	5
Upstream Rt Outlet	Bare soil	0
Upstream Lt Outlet	Bare soil	0
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
<b>Outlet Total</b>	Partially Improved Outlet System	<b>3</b>
<b>Ditches Total</b>	Unimproved Drainage System	<b>1</b>
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- OFFSITE HARDWOOD MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoC, CdB, CdC, FoA, FuB, MBA  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.25in

Notes: Aggregate in stream bed.

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<b>Unnamed tributary</b>	<b>co-0904-r-010</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<i>Common:</i> 8.7mi SE of Andalusia	<i>County:</i> Covington	<i>State:</i> Alabama
<i>Drainage:</i> Yellow River <i>GPS:</i> 31.223892778, -86.380534944	<i>PLSS (T-R-S):</i> 3N-17E-18	
<i>Land owner:</i> Rayonier Woodlands LLC	<i>Parcel No.:</i> 1	
	<i>Road Name:</i> Lost Forty Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Culvert, 2
<i>Crossing Materials:</i>	Metal
<i>Soil Types:</i>	BnB,BnC,CdB,CdC,FuB,MBA
<i>Rt Approach Prism Fill:</i>	0.25in
<i>Lt Approach Prism Fill:</i>	0.25in

Notes: Note sediment load in DS picture

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Unnamed tributary	co-0904-r-012	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 7.5mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Taylor Mill Creek <u>GPS:</u> 31.249888783, -86.375431073	<u>PLSS (T-R-S):</u> 3N-17E-5	
<u>Land owner:</u> Rayonier Woodlands LLC -US, J.D. Casady Heris -DS	<u>Parcel No.:</u> 10; 9	
	<u>Road Name:</u> Otis Maugan Rd	



Crossing Structure:



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BnB,CdB,CdC,MBA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.1in

Notes: None

<h1>Mulberry Creek</h1>	<h2>co-1027-r-006</h2>	<b>Sedimentation Risk Index</b> <h1>40</h1>
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<u>Common:</u> 5.6mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <i>GPS:</i> 31.344171926, -86.317617422	<u>PLSS (T-R-S):</u> 4N-17E-2	
<u>Land owner:</u> Larry Jones -US, David Tohmponson -DS	<u>Parcel No.:</u> 13.01; 13.02	
	<u>Road Name:</u> Oscar Pugh Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Partially Improved Outlet System	3
<b>Ditches Total</b>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: CdB, CdC, MBA, OrB, OrC, OrE

Rt Approach Prism Fill: 1.5in

Lt Approach Prism Fill: 0.75in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across US

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Unnamed tributary	co-1027-r-008	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 5.9mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.356190939, -86.305929163	<u>PLSS (T-R-S):</u> 5N-17E-36	
<u>Land owner:</u> Billy & Mary Ashberry	<u>Parcel No.:</u> 5	
	<u>Road Name:</u> Gardeners Chapel Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: EsC,MbA,OrB,OrC,OrE,RdB,TrD  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.5in

Notes: Large, new rip rap placed in ditches.

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<b>Unnamed tributary</b>	<b>ok-0429-r-003</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 4.2mi W of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.745881514, -86.637365798	<u>PLSS(T-R-S):</u> 3N-24-22	
<u>Land owner:</u> Tim & Nelda Flemming	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Al Gillman Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
US Channel Morph	B	5
DS Channel Morph	B	5
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	5-30°	3
Crossing fill condition	Poor/Bare soil	1
Inlet/Outlet Condition	Blocked	1
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	<2%	5
Soil K Factor	<0.20	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Bare soil	0
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Bridge, 1	
<u>Crossing Materials:</u>	Reinforced Concrete	
<u>Soil Types:</u>	4,6,12,13,27,34,36,43,49,50,51,52	
<u>Rt Approach Prism Fill:</u>	0.2in	
<u>Lt Approach Prism Fill:</u>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
Wetland Species	No	N/A
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Railroad crossing approx 100ft US.



Unnamed tributary	ok-0429-r-004	Sedimentation Risk Index <b>40</b>
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Common: 4.4mi W of Crestview  
Drainage: Yellow River GPS: 30.744474768, -86.6389025726  
Land owner: Fred Young

County: Okaloosa State: Florida  
PLSS(T-R-S): 3N-24-22  
Parcel No.: 4.2  
Road Name: Al Gillman Rd



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	VACANT RESIDENTIAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: 4,6,12,13,27,34,36,43,49,50,51,52  
Rt Approach Prism Fill: 0.2in  
Lt Approach Prism Fill: 0.1in

Notes: None

Unnamed tributary	ok-0429-r-007	Sedimentation Risk Index <b>40</b>
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Common: 4.5mi W of Crestview  
Drainage: Yellow River GPS: 30.738421812, -86.643402911  
Land owner: Phillips Family LTD

County: Okaloosa State: Florida  
PLSS(T-R-S): 3N-24-21  
Parcel No.: 2.30040  
Road Name: Al Gillman Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	4,6,12,13,27,34,36,43,49,50,51,52	
<i>Rt Approach Prism Fill:</i>	1.0in	
<i>Lt Approach Prism Fill:</i>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Private impounded system US. Ladder leading DS.

<h1 style="margin:0;">Moores Mill Creek</h1>	<h2 style="margin:0;">ok-0526-r-002</h2>	<i>Sedimentation Risk Index</i> <b style="font-size: 1.2em;">40</b>
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<u>Common:</u> 6.1mi NW of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.989228, -86.559067	<u>PLSS(T-R-S):</u> 6N-23-29	
<u>Land owner:</u> J.D. Hughes Jr.	<u>Parcel No.:</u> 5	
	<u>Road Name:</u> Moores Mill Creek Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Synthetic	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<b><i>Outlet Total</i></b>	<b>Improved Outlet System</b>	<b>5</b>
<b><i>Ditches Total</i></b>	<b>Partially Improved Drainage System</b>	<b>3</b>
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
<b>303(d)</b>	Yes	COLIFORMS, TURBIDITY, MERCURY
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	Yes	BLUENOSE SHINER, ALABAMA SHAD, ALLIGATOR GAR, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<b>Land Use/Cover</b>	Yes	AGRICULTURAL / WETLAND FORESTED MIX
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: 13,16,23,24,43,45,46,49,51,55  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.5in

Notes: Rt approach paved until last 40yards.

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<h1>Big Horse Creek</h1>	<h2>ok-0526-r-006</h2>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 3mi NE of Blackman	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.961968, -86.610516	<u>PLSS(T-R-S):</u> 5N-24-02	
<u>Land owner:</u> Blackwater River State Forest	<u>Parcel No.:</u> 7	
	<u>Road Name:</u> Horsecreek Rd	

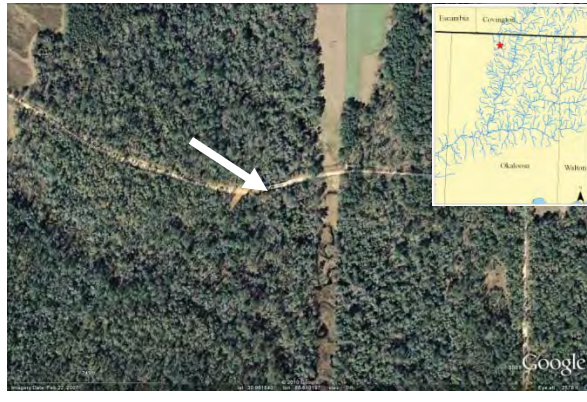


Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	PUBLIC/SEMI-PUBLIC/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 12,13,16,20,23,39,43,50,52  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 1.0in

Notes: None

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<b>Unnamed tributary</b>	<b>ok-0526-r-011</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 1.8mi NE of Blackman	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Big Horse Creek <i>GPS:</i> 30.927286, -86.606262	<u>PLSS(T-R-S):</u> 5N-24-14/13	
<u>Land owner:</u> Blackwater River State Forest	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Peacock Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	PUBLIC/SEMI-PUBLIC/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	24,36,39,43,46,47,49,51
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	0.5in

Notes: None

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<h1>Burnt Grocery Creek</h1>	<h2>sr-0401-r-001</h2>	<b>Sedimentation Risk Index</b> <h1>40</h1>
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<u>Common:</u> 2.4mi SE of Harold	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.635267, -86.849675	<u>PLSS(T-R-S):</u> 2N-26-33	
<u>Land owner:</u> The Nature Conservancy	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Bobcat Trail	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1; Reservoir Drain, 1	
<i>Crossing Materials:</i>	Metal; Reinforced Concrete	
<i>Soil Types:</i>	22,34,40	
<i>Rt Approach Prism Fill:</i>	0.25in	
<i>Lt Approach Prism Fill:</i>	0.40in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ MDC - LOW DENSITY, FIXED SINGLE FAMILY UNITS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Drainage undersized to accommodate storm events. DS inundated.

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# Big Swamp Creek

wa-0714-r-002

Sedimentation Risk Index

**40**

Common: 6.6mi NE of Mossy Head  
Drainage: Shoal River GPS: 30.802508, -86.226481  
Land owner: Mary Frymire & Joe Johnson

County: Walton  
PLSS(T-R-S): 4N-20-34  
Parcel No.: 5  
Road Name: Raley Rd

State: Florida



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	N/A/ STREAMS AND WATERWAYS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge,1  
Crossing Materials: Wood  
Soil Types: 4,15,31,32,48  
Rt Approach Prism Fill: 2.0in  
Lt Approach Prism Fill: 1.5in

Notes: None

Unnamed tributary	wa-0714-r-006	Sedimentation Risk Index <b>40</b>
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<u>Common:</u> 10.4mi NW of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Big Swamp Creek <u>GPS:</u> 30.853328, -86.197277	<u>PLSS(T-R-S):</u> 4N-20-12	
<u>Land owner:</u> John & Annie Coon-US, Pauline Price-DS	<u>Parcel No.:</u> 5; 4	
	<u>Road Name:</u> Price Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 2	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	15,25,26,60	
<i>Rt Approach Prism Fill:</i>	0.25in	
<i>Lt Approach Prism Fill:</i>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS drop off creating partial fish passage barrier.

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<h1>Big Swamp Creek</h1>	<h2>wa-0714-r-010</h2>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 10.7mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <i>GPS:</i> 30.860540, -86.202056	<u>PLSS(T-R-S):</u> 4N-20-12	
<u>Land owner:</u> Ronald & Dorothy Herring-US, David & Misty Herring-DS	<u>Parcel No.:</u> 3.0; 3.002	
	<u>Road Name:</u> Brown Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Reinforced Concrete	
<i>Soil Types:</i>	15, 22,25,26,31,32,42,60	
<i>Rt Approach Prism Fill:</i>	1.0in	
<i>Lt Approach Prism Fill:</i>	3.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Road under construction at time of survey. Some erosion control attempts.

<b>Bee Branch</b>	<b>wa-0722-r-003</b>	<i>Sedimentation Risk Index</i> <b>40</b>
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<u>Common:</u> 8.4mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Big Swamp Creek <u>GPS:</u> 30.842528, -86.235539	<u>PLSS(T-R-S):</u> 4N-20-15-29000	
<u>Land owner:</u> Andrews Investments LLC 50%, Charles Jones 50%	<u>Parcel No.:</u> 6	
	<u>Road Name:</u> Elmer Jones Rd	



Crossing Structure: Lt Approach



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>40</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Ford, 1	
<u>Crossing Materials:</u>	Reinforced Concrete	
<u>Soil Types:</u>	6,15,25,26,35,60,	
<u>Rt Approach Prism Fill:</u>	0.25in	
<u>Lt Approach Prism Fill:</u>	1.0in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across DS

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Unnamed tributary	co-0729-r-004	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 5.2mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.005470, -86.534821	<u>PLSS (T-R-S):</u> 1N-15E-34	
<u>Land owner:</u> Rayonier Woodlands LLC	<u>Parcel No.:</u> 7	
	<u>Road Name:</u> Walker Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BgA, FoA, IbA, KaA, MBA, TrD  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	Yes	METALS (MERCURY)
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Close proximity to YR main stem. Rip rap in stream bed.

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<b>Unnamed tributary</b>	<b>co-0729-r-006</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 3.2mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Big Creek <u>GPS:</u> 30.997012, -86.499121	<u>PLSS (T-R-S):</u> 6N-23W-24	
<u>Land owner:</u> Dwight Steele	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> Steele Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB, SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge,1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	CdC,DmB,MBA,OrB,OrC,TrB,TrD
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.25in

Notes: Outlet sediment loading severe US.

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<b>Unnamed tributary</b>	<b>co-0729-r-007</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 2.4mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Big Creek <u>GPS:</u> 30.993519, -86.484894	<u>PLSS (T-R-S):</u> 6N-22W-30	
<u>Land owner:</u> Andy Campbell	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> Steele Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge,1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	CdC,DmB,MBA,OrB,OrC,TrB,TrD
<u>Rt Approach Prism Fill:</u>	1.00in
<u>Lt Approach Prism Fill:</u>	0.75in

Notes: Very little water flowing under bridge.

<b>Unnamed tributary</b>	<b>co-0831-r-007</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 6.1mi SW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Mulberry Creek	<u>PLSS (T-R-S):</u> 3N-17E-24	
<u>Land owner:</u> Elma Sasser LE	<u>Parcel No.:</u> 15	
<u>GPS:</u> 31.208589, -86.311083	<u>Road Name:</u> Tweedle Bell Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	PVC
<u>Soil Types:</u>	CdC,DmB,FoA,FuB,MBA
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.1in

Notes: None

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Unnamed tributary	co-0831-r-011	Sedimentation Risk Index <b>42</b>
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Common: 6.6mi SW of Opp  
Drainage: Indian Creek *GPS:* 31.212997, -86.333344  
Land owner: Clidie Lee Harper LE -US, Troy Riley Creane & Brett Riley -DS  
County: Covington State: Alabama  
PLSS (T-R-S): 3N-17E-22  
Parcel No.: 1; 9  
Road Name: Henderson Bridge Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE, EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: BoC,CdB,CdC,FuB,MBA,ORF  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.1in

Notes: Lots of clay loading.

Unnamed tributary	co-0831-r-015	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 6.8mi SW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Mulberry Creek <u>GPS:</u> 31.198640, -86.315943	<u>PLSS (T-R-S):</u> 3N-17E-26	
<u>Land owner:</u> Chester & Connie Harper-DS, Navajo Bawkum –US	<u>Parcel No.:</u> 6; 1; 7.01	
West, Mary Nawlin –US East	<u>Road Name:</u> Crosby Clark Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: CdB,CdC,DmB,MBA  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB, SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 1 culvert blocked

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Unnamed tributary	co-0904-r-007	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 7.2mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River GPS: 31.238567047, -86.394405708	<u>PLSS (T-R-S):</u> 3N-17E-7	
<u>Land owner:</u> Dixon Family LP -US, Shirley & William Colvin -DS	<u>Parcel No.:</u> 7.01; 11	
	<u>Road Name:</u> Willy Moore Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: PVC  
Soil Types: CdB,CdC,DmB  
Rt Approach Prism Fill: 0.2in  
Lt Approach Prism Fill: 0.2in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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Unnamed tributary	co-0904-r-008	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 8.8mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.224030612, -86.370864491	<u>PLSS (T-R-S):</u> 3N-17E-17	
<u>Land owner:</u> George Jr & Madge Powell-US, Jodie & Irene Wiggins-DS	<u>Parcel No.:</u> 4; 7	
	<u>Road Name:</u> Lost Forty Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BnB,BnC,CdB,CdC  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.1in

Notes: Farm land US- pond seriously nutrient loaded.

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Unnamed tributary	co-0904-r-018	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 3.4mi SW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Indian Creek <i>GPS:</i> 31.239793676, -86.287003582	<u>PLSS (T-R-S):</u> 3N-18E-7	
<u>Land owner:</u> Linnie Sharpe -DS, Jimmy & Rebecca Foster -US	<u>Parcel No.:</u> 5; 7.03	
	<u>Road Name:</u> Substation Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BnC,CdB,CdC,DmB,FuB,OrE  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE, EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MODIFIER
Candidate Mussels	No	N/A
Sturgeons C.H.	No	N/A

Notes: Strong manure odor.

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<h1>Good Springs Creek</h1>	<h2>co-1102-r-006</h2>	<b>Sedimentation Risk Index</b> <h1>42</h1>
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<u>Common:</u> 2.2mi SE of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.410767288,-86.290725527	<u>PLSS (T-R-S):</u> 5N-18E-7	
<u>Land owner:</u> J&R Langford North, Troy & Kyle Creane South	<u>Parcel No.:</u> 8,2	
	<u>Road Name:</u> Chalker Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: LuB, MBA, OrB, OrC, OrE, TrB, TrD

Rt Approach Prism Fill: 0.50in

Lt Approach Prism Fill: 0.10in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<h1>Honey Creek</h1>	<h2>ok-0409-r-001</h2>	<b>Sedimentation Risk Index</b> <h1>42</h1>
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<u>Common:</u> 6.5mi SE of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Titi Creek <u>GPS:</u> 30.607561, -86.816481	<u>PLSS(T-R-S):</u> 2N-23-07	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> RR211 East Eglin AFB	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge,1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	12,25,26
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Cover/ Use	Yes	INSTITUTIONAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Hilltop to hilltop paving, but ditches are washing sediment down to pile on top of the bridge.

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Unnamed tributary	ok-0429-r-006	Sedimentation Risk Index <b>42</b>
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Common: 4.5mi W of Crestview  
Drainage: Yellow River GPS: 30.739574285, -86.641770415  
Land owner: T.V. Kolmetz

County: Okaloosa State: Florida  
PLSS(T-R-S): 3N-24-22  
Parcel No.: 3.20010  
Road Name: Al Gillman Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert,1  
Crossing Materials: PVC  
Soil Types: 4,6,12,13,27,34,36,43,49,50,51,52  
Rt Approach Prism Fill: 0.2in  
Lt Approach Prism Fill: 0.2in

Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	N/A/ ELECTRICAL POWER TRANSMISSION LINES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Reservoir drain. DS inaccessible due to fencing off of private property

Unnamed tributary	ok-0526-r-008	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 2.9mi N of Blackman	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Big Horse Creek <u>GPS:</u> 30.965575, -86.629023	<u>PLSS(T-R-S):</u> 5N-24-03	
<u>Land owner:</u> James Hart-US, Unknown-DS	<u>Parcel No.:</u> 4, 1.005A	
	<u>Road Name:</u> Horsecreek Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Synthetic	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	35,39,40,52	
<i>Rt Approach Prism Fill:</i>	0.5in	
<i>Lt Approach Prism Fill:</i>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Top cut off culvert.

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<b>Unnamed tributary</b>	<b>ok-0617-r-002</b>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 8.78mi NW of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Deadfall Creek <u>GPS:</u> 30.869556, -86.644992	<u>PLSS(T-R-S):</u> 4N-24-04	
<u>Land owner:</u> Lenwood Jackson-DS, Warren Griffith-US	<u>Parcel No.:</u> 4, 5	
	<u>Road Name:</u> Lenwood Jackson Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	RESIDENTIAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	40,41,42,43
<u>Rt Approach Prism Fill:</u>	2.5in
<u>Lt Approach Prism Fill:</u>	2.0in

Notes: Oily sheen, LT buffer logged bare, severe erosion over culvert. Rip rap encircling DS. Impounded farther US.



Unnamed tributary	wa-0710-r-005	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 3.2mi NW of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.781183, -86.345665	<u>PLSS(T-R-S):</u> 3N-21-04/09	
<u>Land owner:</u> J. Laden Dewrell-DS, Delmar & Marlene Walker-US	<u>Parcel No.:</u> 1.004; 1.009	
	<u>Road Name:</u> Jones Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE SHINER
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	15,17,31,33,35
<u>Rt Approach Prism Fill:</u>	0.75in
<u>Lt Approach Prism Fill:</u>	0.1in

Notes: 200ft of RT approach is paved. All Lt paved

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Unnamed tributary	wa-0714-r-001	Sedimentation Risk Index <b>42</b>
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<u>Common:</u> 4.9mi NW of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Wolf Branch <u>GPS:</u> 30.798529, -86.366837	<u>PLSS(T-R-S):</u> 4N-21-32	
<u>Land owner:</u> Theodore Lehmann Jr-US, John Mills-DS	<u>Parcel No.:</u> 2.0011; 4	
	<u>Road Name:</u> Hinote Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	AGRICULTURAL/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	13,14,15,31,32,38
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.15in

Notes: Grate over inlet.

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<h1>Unnamed tributary</h1>	<h2>wa-0722-r-004</h2>	<b>Sedimentation Risk Index</b> <h1>42</h1>
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<u>Common:</u> 8.5mi N of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Gum Creek <u>GPS:</u> 30.843467, -86.113519	<u>PLSS (T-R-S):</u> 4N-19-14-20000	
<u>Land owner:</u> Helen Poole	<u>Parcel No.:</u> 01.50010	
	<u>Road Name:</u> Barlett Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Partially Improved Outlet System	3
<b>Ditches Total</b>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



**Additional Site Features**

Crossing Type and Quantity: Culvert, 2

Crossing Materials: Metal

Soil Types: 10,15,20,69

Rt Approach Prism Fill: 1.0in

Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<h1>Unnamed tributary</h1>	<h2>wa-0722-r-006</h2>	<i>Sedimentation Risk Index</i> <b>42</b>
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<u>Common:</u> 11.2mi N of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Gum Creek <u>GPS:</u> 30.874809, -86.080803	<u>PLSS (T-R-S):</u> 4N-18-06-11000	
<u>Land owner:</u> T.R. Miller Mill Co	<u>Parcel No.:</u> 1.0	
	<u>Road Name:</u> T.R. Miller Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<b>Outlet Total</b>	Unimproved Outlet System	1
<b>Ditches Total</b>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>42</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	13,29,32,35,39
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ UPLAND CONIFEROUS FORESTS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<b>Larkin Creek</b>	<b>co-0729-r-003</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<i>Common:</i> 5.4mi NW of Laurel Hill	<i>County:</i> Covington	<i>State:</i> Alabama
<i>Drainage:</i> Yellow River <i>GPS:</i> 31.008716, -86.534784	<i>PLSS (T-R-S):</i> 1N-15E-34	
<i>Land owner:</i> Charles & Ola Churchwell	<i>Parcel No.:</i> 6	
	<i>Road Name:</i> Walker Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Bridge, 1
<i>Crossing Materials:</i>	Reinforced Concrete
<i>Soil Types:</i>	BgA,FoA,IbA,KaA,MBA,TrD
<i>Rt Approach Prism Fill:</i>	0.25in
<i>Lt Approach Prism Fill:</i>	0.25in



Feature	Within Range	Descriptive Field
303(d)	Yes	METALS (MERCURY)
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	Yes	FUZZY PIGTOE, SOUTHERN SANDSHELL
Sturgeon C.H.	No	N/A

Notes: None

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<h1>Unnamed tributary</h1>	<h2>co-0731-r-002</h2>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 5.1mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Larkin Creek <u>GPS:</u> 31.032136, -86.496928	<u>PLSS (T-R-S):</u> 1N-15E-24	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 10	
	<u>Road Name:</u> Booth Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Reinforced Concrete	
<i>Soil Types:</i>	BoC, MBA, TrB, TrD	
<i>Rt Approach Prism Fill:</i>	1.0in	
<i>Lt Approach Prism Fill:</i>	1.0in	



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	No	N/A
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: US outlet sediment loading.

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<b>Larkin Creek</b>	<b>co-0731-r-003</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 5.7mi NW of Laurel Hill	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.041678, -86.494814	<u>PLSS (T-R-S):</u> 1N-16E-19	
<u>Land owner:</u> Rayonier Forest Resources	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Booth Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	BoB,BoC,LuB,MBA,OrB,TrB,TrD
<u>Rt Approach Prism Fill:</u>	1.0in
<u>Lt Approach Prism Fill:</u>	0.75in

Notes: Woody debris build-up DS.

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<h1>Taylor Mill Creek</h1>	<h2>co-0904-r-016</h2>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 6.8mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.278513547, -86.372965993	<u>PLSS (T-R-S):</u> 4N-17E-29/32	
<u>Land owner:</u> C&R Wratford -US, J&R Pate LE -DS	<u>Parcel No.:</u> 16; 5	
	<u>Road Name:</u> Ellis Griggs Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	BoC,CdB,DmB,FuB,MBA	
<i>Rt Approach Prism Fill:</i>	0.1in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	N/A/ SUCCESSIONAL SHRUB, SCRUB (CLEAR CUT)
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: None



<b>Unnamed tributary</b>	<b>co-0904-r-017</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<i>Common:</i> 2.8mi SW of Opp	<i>County:</i> Covington	<i>State:</i> Alabama
<i>Drainage:</i> Indian Creek <i>GPS:</i> 31.253022205, -86.287154176	<i>PLSS (T-R-S):</i> 3N-18E-6	
<i>Land owner:</i> Charles Jr & Renee Burgess	<i>Parcel No.:</i> 8.02	
	<i>Road Name:</i> Substation Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Improved Drainage System	5
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 3	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	CdC,FuB,MBA,OrB,OrC	
<i>Rt Approach Prism Fill:</i>	0.3in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Most of Rt approach paved

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<b>Poley Creek</b>	<b>co-1027-r-009</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 5.0mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.345664048, -86.296779154	<u>PLSS (T-R-S):</u> 4N-17E-1	
<u>Land owner:</u> Patricia Edge	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Wages Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: MBA,OrB,OrC,OrE,TrD  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: High sediment loads from outlets.

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<b>Mulberry Creek</b>	<b>co-1027-r-010</b>	<b>Sedimentation Risk Index</b> <b>44</b>
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<u>Common:</u> 4.9mi NW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.334838128, -86.309673279	<u>PLSS (T-R-S):</u> 4N-17E-1	
<u>Land owner:</u> Jack and Mary Odom	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Carlisle Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: MBA, OrB, OrC, OrE  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<b>Good Springs Creek</b>	<b>co-1102-r-005</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 2.0mi S of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.410927205,-86.301856745	<u>PLSS (T-R-S):</u> 5N-17E-12	
<u>Land owner:</u> Charles & Stacy Hinds	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Chalker Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: Cdc, DmB, MBA, OrB, OrC  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.50in

Notes: None

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<b>Poley Creek</b>	<b>co-1102-r-009</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 2.2mi SE of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.420291457, -86.273888041	<u>PLSS (T-R-S):</u> 5N-18E-8	
<u>Land owner:</u> Paul Langford	<u>Parcel No.:</u> 7	
	<u>Road Name:</u> Mitchell Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: MBA, OrB, OrC, OrE, TrD  
Rt Approach Prism Fill: 0.75in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	co-1103-r-017	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 5.3mi E of Cedar Grove	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.352183333, -86.238752688	<u>PLSS (T-R-S):</u> 5N-18E-34/4N-18E-3	
<u>Land owner:</u> T. Ivey Powell & Sons INC North, Ruth Cain South	<u>Parcel No.:</u> 3,3	
	<u>Road Name:</u> Cain Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Rip Rap	1
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: MBA, OrB, OrE, TrD

Rt Approach Prism Fill: 0.5in

Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST, EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<h1>Turkey Gobbler Creek</h1>	<h2>ok-0407-r-002</h2>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 9.3mi SW of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <i>GPS:</i> 30.637169, -86.636894	<u>PLSS(T-R-S):</u> 2N-24-19	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> RR 238 Eglin AFB	



Crossing Structure: Rt Approach



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare Soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Concrete	0
<i>Upstream Rt Ditch</i>	Concrete	0
<i>Upstream Lt Ditch</i>	Concrete	0
<i>Downstream Rt Outlet</i>	Concrete	0
<i>Downstream Lt Outlet</i>	Concrete	0
<i>Downstream Rt Ditch</i>	Concrete	0
<i>Downstream Lt Ditch</i>	Concrete	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Ford, 1
<u>Crossing Materials:</u>	Native Soil
<u>Soil Types:</u>	12, 13
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	INSTITUTIONAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Both approaches paved hilltop to hilltop

<b>Mill Branch</b>	<b>ok-0512-r-007</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 7.7mi NW of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Deadfall Creek <u>GPS:</u> 30.856417, -86.636839	<u>PLSS(T-R-S):</u> 4N-24-10	
<u>Land owner:</u> Blackwater River State Forest	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> H-52 Halloway Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	PUBLIC/SEMI-PUBLIC/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert,1; Ford, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	23,24,25,43,49
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.1in

Notes: Insufficient culvert to drain US wetland- road turned into ford.

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<h1>Little Horse Creek</h1>	<h2>ok-0526-r-003</h2>	<b>Sedimentation Risk Index</b> <h1>44</h1>
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<u>Common:</u> 8.3mi W of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Big Horse Creek <u>GPS:</u> 30.955267, -86.604486	<u>PLSS(T-R-S):</u> 5N-24-01	
<u>Land owner:</u> Blackwater River State Forest	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> W Kelly Rd	



US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	PUBLIC/SEMI-PUBLIC/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: 12,13,16,20,23,24,36,39,43,52

Rt Approach Prism Fill: 0.5in

Lt Approach Prism Fill: 0.75in

Notes: None

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<h1>Unnamed tributary</h1>	<h2>ok-0526-r-009</h2>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 3mi NE of Blackman	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Big Horse Creek <u>GPS:</u> 30.967639, -86.625359	<u>PLSS(T-R-S):</u> 5N-24-03	
<u>Land owner:</u> Lonnie Hughes Jr- US, Rhonda Nelson- DS	<u>Parcel No.:</u> 1.0040, 1.002A	
	<u>Road Name:</u> Owen Cotton Cemetery Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	N/A/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 35,39,43,52  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.5in

Notes: None

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<b>Bridge Branch</b>	<b>ok-1005-r-003</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 6mi E of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Bear Creek <u>GPS:</u> 30.756197979, -86.469174761	<u>PLSS(T-R-S):</u> 3N-22-17	
<u>Land owner:</u> Courington Construction Inc	<u>Parcel No.:</u> 4.001	
	<u>Road Name:</u> Carousel Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	12, 13, 25
<u>Rt Approach Prism Fill:</u>	2.0in
<u>Lt Approach Prism Fill:</u>	3.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	ACREAGE NOT ZONED FOR AGRICULTURE/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Highly vegetated.

<b>Unnamed tributary</b>	<b>wa-0626-r-007</b>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 6.5mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Turkey Creek <u>GPS:</u> 30.926158, -86.267631	<u>PLSS:</u> 5N-20-17/20	
<u>Land owner:</u> James & Elizabeth Hall- US, Laura Wise-Adams-DS	<u>Parcel No.:</u> 5; 3.001	
	<u>Road Name:</u> Pittman Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ CONIFEROUS PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	6,13,60
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.1in

Notes: Dry at time of survey. Dead minnows in DS puddle.

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Unnamed tributary	wa-0714-r-005	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 9.8mi NW of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Big Swamp Creek <u>GPS:</u> 30.843701, -86.197376	<u>PLSS(T-R-S):</u> 4N-20-13	
<u>Land owner:</u> Vivian Worley-US, Juanita Courtney-DS	<u>Parcel No.:</u> 3; 5	
	<u>Road Name:</u> Price Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	DA	3
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Sed Islands/Scouring	3
Road Approach Material	All Aggregate	5
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Bare soil	0
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Bridge, 1	
<u>Crossing Materials:</u>	Reinforced Concrete	
<u>Soil Types:</u>	15,26,60	
<u>Rt Approach Prism Fill:</u>	0.1in	
<u>Lt Approach Prism Fill:</u>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Aggregate getting into stream channel.

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<h1>Unnamed tributary</h1>	<h2>wa-0722-r-009</h2>	<i>Sedimentation Risk Index</i> <b>44</b>
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<u>Common:</u> 6.4mi N of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Gum Creek <u>GPS:</u> 30.814542, -86.129770	<u>PLSS (T-R-S):</u> 4N-19-27-20000	
<u>Land owner:</u> Johnny Padgey & Anne Waverly-US, Ralph Proctor-DS	<u>Parcel No.:</u> 1.0010;006.0000	
	<u>Road Name:</u> McLendon Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ CYPRESS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 3  
Crossing Materials: Metal  
Soil Types: 10,13,29  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Notes: Pond drainage, but also culverts for road crossing.

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Unnamed tributary	wa-0723-r-003	Sedimentation Risk Index <b>44</b>
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<u>Common:</u> 7.2mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Caney Creek <u>GPS:</u> 30.944042388, -86.230059991	<u>PLSS (T-R-S):</u> 5N-20-10-30000	
<u>Land owner:</u> Elizabeth Bopp-DS, Deanna Wilson-US	<u>Parcel No.:</u> 7; 2.001	
	<u>Road Name:</u> Davis Rd	



DS



US

Risk Factor	Ranking	Score
US Channel Morph	BEAVER DAM	3
DS Channel Morph	DA	3
DS Bank Alteration	MINOR/PARTIAL	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Blocked	1
Road Approach Material	All Aggregate	5
Potential Eroded Volume Mean	<21 y <sup>3</sup>	5
Approach Slope Mean	<2%	5
Soil K Factor	0.21-0.40	3
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Improved Outlet System	5
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Medium Risk</b>	<b>44</b>
<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Culvert, 2	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	6,13,14,15,31,32,59,60	
<u>Rt Approach Prism Fill:</u>	0.25in	
<u>Lt Approach Prism Fill:</u>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Highly vegetated DS

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<b>Mulberry Creek</b>	<b>co-0831-r-006</b>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 6.4mi SW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Indian Creek <u>GPS:</u> 31.199322, -86.303517	<u>PLSS (T-R-S):</u> 3N-17E-25	
<u>Land owner:</u> Rayonier Forest Resources LP	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Tweedle Bell Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE,HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: BoB,BoC,CdB,CdC,FoA,FuB,MBA  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 2.5in

Notes: None



Unnamed tributary	co-0831-r-009	Sedimentation Risk Index <b>46</b>
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<u>Common:</u> 6.6mi SW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Indian Creek	<u>PLSS (T-R-S):</u> 3N-17E-22/23	
<u>Land owner:</u> C&G LLC	<u>Parcel No.:</u> 11	
	<u>Road Name:</u> Harrell Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BoC,CdB,CdC,FuB,MBA
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	0.75in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<b>Unnamed tributary</b>	<b>co-0901-r-003</b>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 7.8mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poplar Creek <i>GPS:</i> 31.201271576, -86.441651591	<u>PLSS (T-R-S):</u> 3N-16E-27	
<u>Land owner:</u> David Sightler - US, Howard Sightler-DS	<u>Parcel No.:</u> 2; 4	
	<u>Road Name:</u> Wamblesville Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE, PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: CdC,DmB,FoA,RaA  
Rt Approach Prism Fill: 0.05in  
Lt Approach Prism Fill: 0.1in

Notes: None

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<b>Unnamed tributary</b>	<b>co-0904-r-006</b>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 7.0mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.238586499, -86.397066995	<u>PLSS (T-R-S):</u> 3N-16E-12	
<u>Land owner:</u> Dixon Family -US, Rayonier Woodlands LLC -DS	<u>Parcel No.:</u> 4;5	
	<u>Road Name:</u> Willy Moore Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: CdB,CdC,DmB  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.2in

Notes: None

Unnamed tributary	co-0904-r-011	Sedimentation Risk Index <b>46</b>
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<u>Common:</u> 8.0mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.223841314, -86.390269522	<u>PLSS (T-R-S):</u> 3N-17E-18	
<u>Land owner:</u> Louise & Tip Grider -US, John E. Vick -DS	<u>Parcel No.:</u> 5;7	
	<u>Road Name:</u> Lost Forty Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Culvert, 1
<i>Crossing Materials:</i>	PVC
<i>Soil Types:</i>	BnB,BnC,CdB,FuB
<i>Rt Approach Prism Fill:</i>	0.1in
<i>Lt Approach Prism Fill:</i>	0.25in

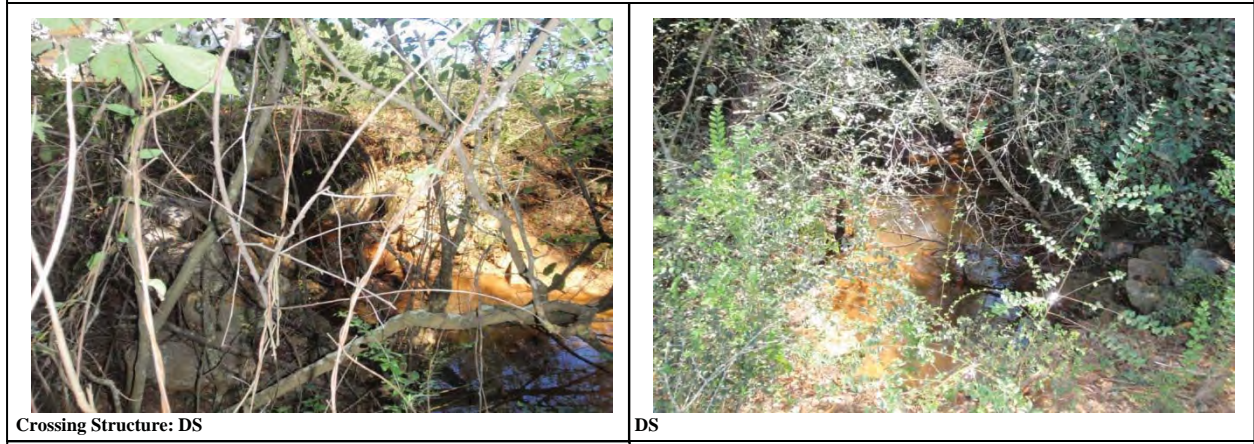


Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

<h1 style="margin:0;">Good Springs Creek</h1>	<h2 style="margin:0;">co-1102-r-004</h2>	<i>Sedimentation Risk Index</i> <h1 style="margin:0;">46</h1>
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<u>Common:</u> 2.1mi S of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.410927205,-86.301856745	<u>PLSS (T-R-S):</u> 5N-17E-12	
<u>Land owner:</u> Charles & Stacy Hinds	<u>Parcel No.:</u> ?	
	<u>Road Name:</u> Chaker Rd	



Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	C	5	
<i>DS Channel Morph</i>	C	5	
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3	
<i>Upstream Skew Angle</i>	<5°	5	
<i>Crossing fill condition</i>	Fair/Rip Rap	3	
<i>Inlet/Outlet Condition</i>	No Impairment	5	
<i>Road Approach Material</i>	All Sand/Clay	3	
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5	
<i>Approach Slope Mean</i>	2.1-4%	3	
<i>Soil K Factor</i>	0.21-0.40	3	
<i>Upstream Rt Outlet</i>	Bare soil	0	
<i>Upstream Lt Outlet</i>	Vegetated	1	
<i>Upstream Rt Ditch</i>	Vegetated	1	
<i>Upstream Lt Ditch</i>	Vegetated	1	
<i>Downstream Rt Outlet</i>	Vegetated	1	
<i>Downstream Lt Outlet</i>	Vegetated	1	
<i>Downstream Rt Ditch</i>	Bare soil	0	
<i>Downstream Lt Ditch</i>	Bare soil	0	
<i>Outlet Total</i>	Partially Improved Outlet System	3	
<i>Ditches Total</i>	Partially Improved Drainage System	3	
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>46</b>	

<b>Additional Site Features</b>		
<u>Crossing Type and Quantity:</u>	Culvert, 1	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	CdC ,DmB ,MBA ,OrB	
<u>Rt Approach Prism Fill:</u>	0.15in	
<u>Lt Approach Prism Fill:</u>	0.25in	

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE, PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A



Notes: None

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<b>Unnamed tributary</b>	<b>co-1103-r-013</b>	<i>Sedimentation Risk Index</i> <b>46</b>
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<u>Common:</u> 5.7mi NE of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.356551963,-86.210525437	<u>PLSS (T-R-S):</u> 5N-18E-36	
<u>Land owner:</u> Mary Donaldson	<u>Parcel No.:</u> 2	
	<u>Road Name:</u> Piney Grove Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge,1  
Crossing Materials: Reinforced Concrete  
Soil Types: MBA,OrB,OrC,TrD  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Notes: None

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Unnamed tributary	co-1103-r-014	Sedimentation Risk Index <b>46</b>
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<u>Common:</u> 5.0mi NE of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Pond Creek	<u>PLSS (T-R-S):</u> 4N-18E-2	
<u>Land owner:</u> Couis Cain	<u>Parcel No.:</u> 4	
	<u>Road Name:</u> Piney Grove Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	DA	3
DS Bank Alteration	NATURAL	5
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	No Impairment	5
Road Approach Material	All Sand/Clay	3
Potential Eroded Volume Mean	21-40 y <sup>3</sup>	3
Approach Slope Mean	2.1-4%	3
Soil K Factor	<0.20	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare soil	0
Upstream Lt Ditch	Bare soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare soil	0
Downstream Lt Ditch	Bare soil	0
Outlet Total	Improved Outlet System	5
Ditches Total	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: MBA, OrB, OrC, TrD

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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Unnamed tributary		ok-0223-r-005	Sedimentation Risk Index <b>46</b>																																																																		
<u>Common:</u> 3.9mi SE of Holt <u>Drainage:</u> Yellow River <u>GPS:</u> 30.662850, -86.772450 <u>Land owner:</u> The Nature Conservancy		<u>County:</u> Okaloosa <u>State:</u> Florida <u>PLSS (T-R-S):</u> 2N-25-20 <u>Parcel No.:</u> 1 <u>Road Name:</u> Yellow River Log Lake Rd																																																																			
																																																																					
Crossing Structure- US		DS																																																																			
<table border="1"> <thead> <tr> <th>Risk Factor</th> <th>Ranking</th> <th>Score</th> </tr> </thead> <tbody> <tr><td><i>US Channel Morph</i></td><td>C</td><td>5</td></tr> <tr><td><i>DS Channel Morph</i></td><td>C</td><td>5</td></tr> <tr><td><i>DS Bank Alteration</i></td><td>MINOR/PARTIAL</td><td>3</td></tr> <tr><td><i>Upstream Skew Angle</i></td><td>&lt;5°</td><td>5</td></tr> <tr><td><i>Crossing fill condition</i></td><td>Poor/Bare Soil</td><td>1</td></tr> <tr><td><i>Inlet/Outlet Condition</i></td><td>Blocked</td><td>1</td></tr> <tr><td><i>Road Approach Material</i></td><td>All Native Soil</td><td>1</td></tr> <tr><td><i>Potential Eroded Volume Mean</i></td><td>&lt;21 y<sup>3</sup></td><td>5</td></tr> <tr><td><i>Approach Slope Mean</i></td><td>&lt;2%</td><td>5</td></tr> <tr><td><i>Soil K Factor</i></td><td>&lt;0.20</td><td>5</td></tr> <tr><td><i>Upstream Rt Outlet</i></td><td>Vegetated</td><td>1</td></tr> <tr><td><i>Upstream Lt Outlet</i></td><td>Vegetated</td><td>1</td></tr> <tr><td><i>Upstream Rt Ditch</i></td><td>Vegetated</td><td>1</td></tr> <tr><td><i>Upstream Lt Ditch</i></td><td>Vegetated</td><td>1</td></tr> <tr><td><i>Downstream Rt Outlet</i></td><td>Vegetated</td><td>1</td></tr> <tr><td><i>Downstream Lt Outlet</i></td><td>Vegetated</td><td>1</td></tr> <tr><td><i>Downstream Rt Ditch</i></td><td>Vegetated</td><td>1</td></tr> <tr><td><i>Downstream Lt Ditch</i></td><td>Vegetated</td><td>1</td></tr> <tr><td><i>Outlet Total</i></td><td>Improved Outlet System</td><td>5</td></tr> <tr><td><i>Ditches Total</i></td><td>Improved Drainage System</td><td>5</td></tr> <tr><td><b>SRI Total</b></td><td><b>Low Risk</b></td><td><b>46</b></td></tr> </tbody> </table>		Risk Factor	Ranking	Score	<i>US Channel Morph</i>	C	5	<i>DS Channel Morph</i>	C	5	<i>DS Bank Alteration</i>	MINOR/PARTIAL	3	<i>Upstream Skew Angle</i>	<5°	5	<i>Crossing fill condition</i>	Poor/Bare Soil	1	<i>Inlet/Outlet Condition</i>	Blocked	1	<i>Road Approach Material</i>	All Native Soil	1	<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5	<i>Approach Slope Mean</i>	<2%	5	<i>Soil K Factor</i>	<0.20	5	<i>Upstream Rt Outlet</i>	Vegetated	1	<i>Upstream Lt Outlet</i>	Vegetated	1	<i>Upstream Rt Ditch</i>	Vegetated	1	<i>Upstream Lt Ditch</i>	Vegetated	1	<i>Downstream Rt Outlet</i>	Vegetated	1	<i>Downstream Lt Outlet</i>	Vegetated	1	<i>Downstream Rt Ditch</i>	Vegetated	1	<i>Downstream Lt Ditch</i>	Vegetated	1	<i>Outlet Total</i>	Improved Outlet System	5	<i>Ditches Total</i>	Improved Drainage System	5	<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>		
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<b>Additional Site Features</b> <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 6, 43, 50 <u>Lt Approach Prism Fill:</u> 0.08in <u>Rt Approach Prism Fill:</u> 0.08in		<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>Yes</td> <td>1-3 FOCAL SPECIES IN UPLAND AREAS</td> </tr> <tr> <td>Rare and Imperiled</td> <td>Yes</td> <td>ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER</td> </tr> <tr> <td>Land Use/Cover</td> <td>Yes</td> <td>PUBLIC, SEMI-PUBLIC/ WETLAND FORESTED MIX</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>		Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER	Land Use/Cover	Yes	PUBLIC, SEMI-PUBLIC/ WETLAND FORESTED MIX	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Candidate Mussels	No	N/A																																																																			
Sturgeon C.H.	No	N/A																																																																			

Notes: Woody material being caught at US entrance to culvert. DS drop off.



<b>Titi Creek</b>	<b>ok-0409-r-002</b>	<b>Sedimentation Risk Index</b> <b>46</b>
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<u>Common:</u> 6.3mi SE of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.701603275, -86.492143871	<u>PLSS(T-R-S):</u> 2N-22-01	
<u>Land owner:</u> US Government- Eglin AFB	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> RR207 Eglin AFB	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Riprap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	6,12,22,25,34,50
<u>Rt Approach Prism Fill:</u>	0.15in
<u>Lt Approach Prism Fill:</u>	1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Cover/ Use	Yes	INSTITUTIONAL/ STREAMS AND WATERWAYS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS Lt Outlet aggregate boat launch.

<h1>Baggett Creek</h1>	<h2>ok-0617-r-001</h2>	<b>Sedimentation Risk Index</b> <h1>46</h1>
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<u>Common:</u> 6.4mi W of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.749119, -86.677778	<u>PLSS(T-R-S):</u> 3N-24-19	
<u>Land owner:</u> Benjamin & Mary Plenge- DS, Ouida Keyser-US	<u>Parcel No.:</u> 2.006, 1	
	<u>Road Name:</u> Keyser Mill Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>46</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: 6,12,24,25,51  
Rt Approach Prism Fill: 0.15in  
Lt Approach Prism Fill: 0.25in

Notes: US Rt outlet sand bag burm

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<h1>Caney Creek</h1>	<h2>wa-0714-r-011</h2>	<small>Sedimentation Risk Index</small> <h1>46</h1>
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<u>Common:</u> 10.3mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Big Swamp Creek <u>GPS:</u> 30.899538, -86.210733	<u>PLSS(T-R-S):</u> 5N-20-26	
<u>Land owner:</u> Angus Andrews Jr	<u>Parcel No.:</u> 3	
	<u>Road Name:</u> Royce Gill Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>46</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge,1  
Crossing Materials: Wood  
Soil Types: 13,15,20,22,25,31  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

Notes: Approaches in bad condition; not drivable.

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Unnamed tributary	co-0904-r-009	Sedimentation Risk Index <b>48</b>
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<u>Common:</u> 8.7mi SE of Andalusia	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <u>GPS:</u> 31.223978682, -86.374240707	<u>PLSS (T-R-S):</u> 3N-17E-17	
<u>Land owner:</u> George Jr& Madge Powell –US, Arthur & Felma Wiggins -DS	<u>Parcel No.:</u> 4;8	
	<u>Road Name:</u> Lost Forty Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	BnB,BnC,CdB,CdC,FuB,MBA
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed Tributary	co-1102-r-008	Sedimentation Risk Index <b>48</b>
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<u>Common:</u> 2.6mi SE of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.416936117,-86.268871573	<u>PLSS (T-R-S):</u> 5N-18E-8	
<u>Land owner:</u> Jean Everage	<u>Parcel No.:</u> 8	
	<u>Road Name:</u> Mitchell Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge,1  
Crossing Materials: Reinforced Concrete  
Soil Types: LuB,MBA,OrB,OrC,OrE,TrD  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ ROW CROP
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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Unnamed tributary	co-1102-r-010	Sedimentation Risk Index <b>48</b>
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<u>Common:</u> 1.0mi NE of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.443749815,-86.287363957	<u>PLSS (T-R-S):</u> 6N-18E-31	
<u>Land owner:</u> Josephine Ray	<u>Parcel No.:</u> 10	
	<u>Road Name:</u> Jack Kelly Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y <sup>3</sup>	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Reinforced Concrete

Soil Types: LuB, MBA, OrB, OrC, OrE

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

<b>Unnamed tributary</b>	<b>co-1103-r-015</b>	<b>Sedimentation Risk Index</b> <b>48</b>
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<u>Common:</u> 3.3mi NW of Brooklyn	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.333270156,-86.221932759	<u>PLSS (T-R-S):</u> 4N-18E-11	
<u>Land owner:</u> Robert M Williams West, Jody J Jones East	<u>Parcel No.:</u> 6.01, 6	
	<u>Road Name:</u> Piney Grove Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 2  
Crossing Materials: Metal  
Soil Types: BnC,CdC,OrB  
Rt Approach Prism Fill: 0.15in  
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MODIFIER, SUCCESSIONAL SHRUB, SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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Unnamed tributary	ok-0223-r-003	Sedimentation Risk Index <b>48</b>
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Common: 4.5mi SE of Holt  
Drainage: Yellow River GPS: 30.661542, -86.785647  
Land owner: The Nature Conservancy

County: Okaloosa State: Florida  
PLSS(T-R-S): 2N-25-19  
Parcel No.: 1  
Road Name: Yellow River Log Lake Rd



Crossing Structure- DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare Soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare Soil	0
<i>Upstream Lt Outlet</i>	Bare Soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare Soil	0
<i>Downstream Lt Outlet</i>	Bare Soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 6, 8, 50  
Lt Approach Prism Fill: 0.25in  
Rt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	4-6 FOCAL SPECIES IN WETLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	PUBLIC, SEMI-PUBLIC/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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Unnamed tributary	ok-0407-r-001	Sedimentation Risk Index <b>48</b>
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Common: 8.3mi SW of Crestview  
Drainage: Turkey Gobbler Creek GPS: 30.646942, -86.616639  
Land owner: US Government- Eglin AFB

County: Okaloosa State: Florida  
PLSS(T-R-S): 2N-24-19  
Parcel No.: 1  
Road Name: RR 215 Eglin AFB



Crossing Structure- US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Concrete	0
<i>Upstream Lt Outlet</i>	Concrete	0
<i>Upstream Rt Ditch</i>	Concrete	0
<i>Upstream Lt Ditch</i>	Concrete	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Concrete	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Concrete	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	INSTITUTIONAL/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features	
<i>Crossing Type and Quantity:</i>	Culvert, 1
<i>Crossing Materials:</i>	Reinforced Concrete
<i>Soil Types:</i>	12,13,25
<i>Rt Approach Prism Fill:</i>	0.25in
<i>Lt Approach Prism Fill:</i>	0.25in



Notes: Both approaches paved hilltop to hilltop

Unnamed tributary	ok-0526-r-001	Sedimentation Risk Index <b>48</b>
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<u>Common:</u> 6.6mi W of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.960997, -86.571319	<u>PLSS(T-R-S):</u> 5N-23-05	
<u>Land owner:</u> Cennie Stokes	<u>Parcel No.:</u> 6	
	<u>Road Name:</u> Yellow Baptist Church Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: 12,16,23,24,37,43,46,49,50  
Rt Approach Prism Fill: 1.0in  
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	ACREAGE NOT ZONED FOR AGRICULTURE / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<h1>Unnamed tributary</h1>	<h2>ok-0526-r-010</h2>	<i>Sedimentation Risk Index</i> <b>48</b>
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<u>Common:</u> 3.4mi N of Blackman	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Dry Branch <span style="float:right"><u>GPS:</u> 30.973309, -86.632652</span>	<u>PLSS(T-R-S):</u> 5N-24-03-2770	
<u>Land owner:</u> Donald & Janet Fugate	<u>Parcel No.:</u> 0000.0300	
	<u>Road Name:</u> Bowen Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: 39,43,52

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 0.25in

Notes: None

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<h1>Burnt Grocery Creek</h1>	<h2>sr-0223-r-001</h2>	<i>Sedimentation Risk Index</i> <h1>48</h1>
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<u>Common:</u> 3mi SE of Harold	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.626983, -86.846339	<u>PLSS(T-R-S):</u> 2N-26-33	
<u>Land owner:</u> The Nature Conservancy	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Fisher Old Mill Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>48</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	4-6 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: 7,18,33,34

Rt Approach Prism Fill: 1.25in

Lt Approach Prism Fill: 0.75in

Notes: DS Rt private residence, point source pollution potential.

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<b>Unnamed tributary</b>	<b>wa-0626-r-008</b>	<i>Sedimentation Risk Index</i> <b>48</b>
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<u>Common:</u> 6.4mi SE of Florala	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Turkey Creek <u>GPS:</u> 30.926191, -86.270866	<u>PLSS(T-R-S):</u> 17-5N-20; 20-5N-20	
<u>Land owner:</u> James & Elizabeth Hall- US, Cynthia Wise- DS	<u>Parcel No.:</u> 5;3	
	<u>Road Name:</u> Pittman Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX, CONIFEROUS PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 2
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	6,13,30
<u>Rt Approach Prism Fill:</u>	0.1in
<u>Lt Approach Prism Fill:</u>	0.1in

Notes: Culverts placed too high US. DS leading to impoundment.

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<b>Gum Creek</b>	<b>wa-0714-r-003</b>	<i>Sedimentation Risk Index</i> <b>48</b>
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<u>Common:</u> 6.7mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.784156, -86.213087	<u>PLSS(T-R-S):</u> 3N-20-02	
<u>Land owner:</u> Arlene Victoria Engle Trustee	<u>Parcel No.:</u> 7	
	<u>Road Name:</u> Engles Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Rip Rap	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>48</b>



<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	15,31,35,48
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	1.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US RT and DS RT outlets are culverts.

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<h1 style="margin:0;">Gum Creek</h1>	<h2 style="margin:0;">wa-0722-r-005</h2>	<i>Sedimentation Risk Index</i> <h1 style="margin:0;">48</h1>
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<u>Common:</u> 8.2mi N of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <span style="float:right;"><u>GPS:</u> 30.843435, -86.112790</span>	<u>PLSS (T-R-S):</u> 4N-19-14-20000	
<u>Land owner:</u> James & Hazel Rachels	<u>Parcel No.:</u> 1.00	
	<u>Road Name:</u> Bartlett Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>48</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Wood	
<i>Soil Types:</i>	15,20,69	
<i>Rt Approach Prism Fill:</i>	0.25	
<i>Lt Approach Prism Fill:</i>	0.05in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ CONIFEROUS PLANTATIONS, HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

<b>Unnamed tributary</b>	<b>co-0831-r-014</b>	<i>Sedimentation Risk Index</i> <b>50</b>
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<i>Common:</i> 8.3mi SW of Opp	<i>County:</i> Covington	<i>State:</i> Alabama
<i>Drainage:</i> Indian Creek <i>GPS:</i> 31.190044, -86.345447	<i>PLSS (T-R-S):</i> 3N-17E-33/34	
<i>Land owner:</i> Rayonier Woodlands LLC -DS, Effie Harage LE -US	<i>Parcel No.:</i> 1; 3	
	<i>Road Name:</i> Coon Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<i>Crossing Type and Quantity:</i>	Bridge, 1
<i>Crossing Materials:</i>	Reinforced Concrete
<i>Soil Types:</i>	BoB,BoC,FoA,MBA
<i>Rt Approach Prism Fill:</i>	0.1in
<i>Lt Approach Prism Fill:</i>	0.01in

Notes: Fence across US




<b>Poley Creek</b>	<b>co-1102-r-007</b>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 2.9mi SE of Five Points	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Lightwood Knot <i>GPS:</i> 31.407671902,-86.273104606	<u>PLSS (T-R-S):</u> 5N-18E-17	
<u>Land owner:</u> Paul Langford Tr. 3- North, Faye Rowls & Jordan	<u>Parcel No.:</u> 3.04,3, 3.01	
Langford -SE, B &K Graham - SW	<u>Road Name:</u> Chalker Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y <sup>3</sup>	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>



**Additional Site Features**  
Crossing Type and Quantity: Bridge,1  
Crossing Materials: Reinforced Concrete  
Soil Types: BgA,LuB,MBA,OrB,OrC,OrE,TrD  
Rt Approach Prism Fill: 0.10in  
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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Unnamed tributary	co-1103-r-001	Sedimentation Risk Index <b>50</b>
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<u>Common:</u> 1.4mi NE of Eoda	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Good Springs <u>GPS:</u> 31.383869544,-86.297141303	<u>PLSS (T-R-S):</u> 5N-17E-24	
<u>Land owner:</u> Austin & Robin Baley	<u>Parcel No.:</u> 05	
	<u>Road Name:</u> Meadows Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>



**Additional Site Features**  
Crossing Type and Quantity: Culvert,1  
Crossing Materials: Metal  
Soil Types: LuB,MBA,OrC,TrD  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap in stream bed creating partial fish passage barrier.

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<b>Julian Mill Creek</b>	<b>sr-0223-r-002</b>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 5.2mi E of Harold	<u>County:</u> Santa Rosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <u>GPS:</u> 30.661269, -86.794267	<u>PLSS(T-R-S):</u> 2N-26-24	
<u>Land owner:</u> Alma Crain	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Garner Landing	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Culvert, 2	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	14,21,22,34,40,44,46	
<i>Rt Approach Prism Fill:</i>	0.08in	
<i>Lt Approach Prism Fill:</i>	0.08in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS Lt Outlet vegetated, but doing little for the large amounts of sediment. DS outfall drop.

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<b>Bee Branch</b>	<b>wa-0722-r-002</b>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 8.2mi NE of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Big Swamp Creek <u>GPS:</u> 30.832996-86.229162	<u>PLSS(T-R-S):</u> 4N-20-22-29000	
<u>Land owner:</u> James Cecil Hall	<u>Parcel No.:</u> 1.002	
	<u>Road Name:</u> Old Dairy Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>
<b>Additional Site Features</b>		
<i>Crossing Type and Quantity:</i>	Bridge,1	
<i>Crossing Materials:</i>	Wood	
<i>Soil Types:</i>	3,13,14,15,31,32,61	
<i>Rt Approach Prism Fill:</i>	0.5in	
<i>Lt Approach Prism Fill:</i>	0.75in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	PARCELS WITH NO VALUES/ MDC - LOW DENSITY, FIXED SINGLE FAMILY UNITS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Farm along both approaches.

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<b>Unnamed tributary</b>	<b>wa-0722-r-007</b>	<i>Sedimentation Risk Index</i> <b>50</b>
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<u>Common:</u> 11 mi N of DeFuniak Springs	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Gum Creek <u>GPS:</u> 30.867720, -86.084502	<u>PLSS (T-R-S):</u> 04N-18-06-11000	
<u>Land owner:</u> T.R. Miller Mill Co	<u>Parcel No.:</u> 1.0	
	<u>Road Name:</u> T.R. Miller Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>50</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	AGRICULTURAL/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	10,11,13,22,23,35,39,69
<u>Rt Approach Prism Fill:</u>	0.15in
<u>Lt Approach Prism Fill:</u>	0.1in

Notes: None

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<b>Indian Creek</b>	<b>co-0831-r-012</b>	<i>Sedimentation Risk Index</i> <b>52</b>
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<u>Common:</u> 6.9mi SW of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.212869, -86.340139	<u>PLSS (T-R-S):</u> 3N-17E-22	
<u>Land owner:</u> Clidie Lee Harper LE-US, James & Barbara McCart-DS	<u>Parcel No.:</u> 1; 6	
	<u>Road Name:</u> Henderson Bridge Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>52</b>

<b>Additional Site Features</b>	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	BnB, BnC, CdC, FoA, FuB, MBA, OrE
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY, SUCCESSIONAL SHRUB, SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<b>Unnamed tributary</b>	<b>co-1103-r-016</b>	<i>Sedimentation Risk Index</i> <b>52</b>
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<u>Common:</u> 2.28 NE of Opp	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <i>GPS:</i> 31.314453730,-86.245187458	<u>PLSS (T-R-S):</u> 4N-18E-15/16	
<u>Land owner:</u> Palmer & Mildred Ellis East, O.J. Spurlin Heirs West	<u>Parcel No.:</u> 11,8	
	<u>Road Name:</u> Jones Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>52</b>



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	No	N/A
<b>Land Use/Cover</b>	Yes	N/A/ SUCCESSIONAL SHRUB, SCRUB (OTHER)
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

**Additional Site Features**

Crossing Type and Quantity: Culvert, 1

Crossing Materials: Metal

Soil Types: BnC, CdB, CdC, MBA, OrB

Rt Approach Prism Fill: 0.1in

Lt Approach Prism Fill: 0.1in

Notes: None

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Unnamed tributary		ok-0223-r-004	Sedimentation Risk Index <b>52</b>
<i>Common:</i> 4.14mi SE of Holt		<i>County:</i> Okaloosa	<i>State:</i> Florida
<i>Drainage:</i> Yellow River	<i>GPS:</i> 30.662569, -86.777975	<i>PLSS(T-R-S):</i> 2N-25-19	
<i>Land owner:</i> The Nature Conservancy		<i>Parcel No.:</i> 1	
		<i>Road Name:</i> Yellow River Log Lake Rd	
			
Crossing Structure- DS		US	
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	
<i>US Channel Morph</i>	C	5	
<i>DS Channel Morph</i>	C	5	
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3	
<i>Upstream Skew Angle</i>	<5°	5	
<i>Crossing fill condition</i>	Poor/Bare Soil	1	
<i>Inlet/Outlet Condition</i>	No Impairment	5	
<i>Road Approach Material</i>	All Sand/Clay	3	
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5	
<i>Approach Slope Mean</i>	<2%	5	
<i>Soil K Factor</i>	<0.20	5	
<i>Upstream Rt Outlet</i>	Vegetated	1	
<i>Upstream Lt Outlet</i>	Vegetated	1	
<i>Upstream Rt Ditch</i>	Vegetated	1	
<i>Upstream Lt Ditch</i>	Vegetated	1	
<i>Downstream Rt Outlet</i>	Vegetated	1	
<i>Downstream Lt Outlet</i>	Vegetated	1	
<i>Downstream Rt Ditch</i>	Vegetated	1	
<i>Downstream Lt Ditch</i>	Vegetated	1	
<i>Outlet Total</i>	Improved Outlet System	5	
<i>Ditches Total</i>	Improved Drainage System	5	
<b>SRI Total</b>	<b>Low Risk</b>	<b>52</b>	
<b>Additional Site Features</b>			
<i>Crossing Type and Quantity:</i>	Culvert, 1		
<i>Crossing Materials:</i>	Metal		
<i>Soil Types:</i>	6, 8, 50		
<i>Lt Approach Prism Fill:</i>	N/A		
<i>Rt Approach Prism Fill:</i>	0.25in		
			
<b>Feature</b>	<b>Within Range</b>	<b>Descriptive Field</b>	
303(d)	No	N/A	
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS	
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER	
Land Use/ Cover	Yes	PUBLIC, SEMI-PUBLIC/ WETLAND FORESTED MIX, CONIFEROUS PLANTATIONS	
Candidate Mussels	No	N/A	
Sturgeon C.H.	No	N/A	

Notes: Left road approach is a negative slope, therefore not contributing to sedimentation and not calculated.



<b>Unnamed Tributary</b>	<b>ok-0226-r-006</b>	<i>Sedimentation Risk Index</i> <b>52</b>
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Common: 4.2mi SW of Crestview  
Drainage: Yellow River GPS: 30.665139, -86.761744  
Land owner: The Nature Conservancy

County: Okaloosa State: Florida  
PLSS (T-R-S): 20-2N-24  
Parcel No.: 1  
Road Name: Log Lake Rd



Crossing Structure- DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
<b>SRI Total</b>	<b>Low Risk</b>	<b>52</b>

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	4-6 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/Cover	Yes	PUBLIC, SEMI-PUBLIC/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	43
<u>Lt Approach Prism Fill:</u>	0.4in
<u>Rt Approach Prism Fill:</u>	0.25in



Notes: Receives a lot of sediment when the road is grated. Culvert undersized.

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Unnamed tributary	co-0811-r-001	Sedimentation Risk Index <b>54</b>
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<u>Common:</u> 8.9mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.088983, -86.440317	<u>PLSS (T-R-S):</u> 2N-16E-34/1N-16E-3	
<u>Land owner:</u> William Hicks & Phyllis Hicks Moody-DS, Lora Smith - US	<u>Parcel No.:</u> 8; 4.03	
	<u>Road Name:</u> Yellow River Ranch Rd	



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>54</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Wood  
Soil Types: BoC,CdC,DmB,FoA,FuB,MBA,TrB  
Rt Approach Prism Fill: 0.1in  
Lt Approach Prism Fill: 0.1in

Notes: None

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Unnamed tributary	co-1103-r-012	Sedimentation Risk Index <b>54</b>
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<u>Common:</u> 1.8mi SE of Friendship	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Poley Creek <u>GPS:</u> 31.379322157,-86.195769575	<u>PLSS (T-R-S):</u> 5N-18E-24/25	
<u>Land owner:</u> Kayron Laska North, Lucille & Kayron McMinn South	<u>Parcel No.:</u> 1,2	
	<u>Road Name:</u> CR 397	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
<b>SRI Total</b>	<b>Low Risk</b>	<b>54</b>



**Additional Site Features**

Crossing Type and Quantity: Bridge, 1

Crossing Materials: Wood

Soil Types: 2, 18, 22

Rt Approach Prism Fill: 0.15in

Lt Approach Prism Fill: 1.00in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY, EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

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<h1>Big Horse Creek</h1>	<h2>ok-0526-r-004</h2>	<i>Sedimentation Risk Index</i> <b>54</b>
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<u>Common:</u> 2.7mi NE of Blackman	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River <i>GPS:</i> 30.955489, -86.608581	<u>PLSS(T-R-S):</u> 5N-24-02	
<u>Land owner:</u> Blackwater River State Forest	<u>Parcel No.:</u> 8	
	<u>Road Name:</u> Creston Barrow Rd	



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Rip Rap	1
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Rip Rap	1
<i>Downstream Lt Ditch</i>	Rip Rap	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
<b><i>SRI Total</i></b>	<b>Low Risk</b>	<b>54</b>



Feature	Within Range	Descriptive Field
<b>303(d)</b>	No	N/A
<b>Wetland Species</b>	No	N/A
<b>Rare and Imperiled</b>	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
<b>Land Use/Cover</b>	Yes	PUBLIC/SEMI-PUBLIC/ WETLAND FORESTED MIX
<b>Candidate Mussels</b>	No	N/A
<b>Sturgeon C.H.</b>	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Bridge, 1  
Crossing Materials: Reinforced Concrete  
Soil Types: 12,13,16,20,23,24,36,39,43,52  
Rt Approach Prism Fill: 0.5in  
Lt Approach Prism Fill: 0.75in

Notes: None

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<h1>Unnamed tributary</h1>	<h2>co-0901-r-019</h2>	<i>Sedimentation Risk Index</i> <b>56</b>
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<u>Common:</u> 10.4mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River <i>GPS:</i> 31.141652044, -86.378701811	<u>PLSS (T-R-S):</u> 2N-17E-7	
<u>Land owner:</u> T. Ivey Powell & Sons Inc	<u>Parcel No.:</u> 1	
	<u>Road Name:</u> Cravey Bridge Rd	



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Low Risk</b>	<b>56</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: BoB,BoC,FoA,RaA  
Rt Approach Prism Fill: 0.25in  
Lt Approach Prism Fill: 0.25in

Notes: Rip rap in stream bed. Close proximity to YR main stem.

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<b>Unnamed tributary</b>	<b>wa-0710-r-001</b>	<i>Sedimentation Risk Index</i> <b>56</b>
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<u>Common:</u> 4.8mi NW of Mossy Head	<u>County:</u> Walton	<u>State:</u> Florida
<u>Drainage:</u> Shoal River <u>GPS:</u> 30.783340, -86.381786	<u>PLSS(T-R-S):</u> 3N-21-06	
<u>Land owner:</u> William P. Corley-DS, James & Patricia Mixon-US	<u>Parcel No.:</u> 11; 14	
	<u>Road Name:</u> W.T. Hulion Rd	



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y <sup>3</sup>	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
<b>SRI Total</b>	<b>Low Risk</b>	<b>56</b>



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

**Additional Site Features**  
Crossing Type and Quantity: Culvert, 1  
Crossing Materials: Metal  
Soil Types: 15,35,48  
Rt Approach Prism Fill: 0.05in  
Lt Approach Prism Fill: 0.5in

Notes: Rt approach paved.

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**DRIPPING ROCK STABILIZATION  
PROJECT  
RESTORATION PLAN  
SCOPE OF WORK  
  
YELLOW RIVER  
COVINGTON COUNTY, ALABAMA  
JUNE 2011**



**COOPERATING ENTITIES:**

**THE NATURE CONSERVANCY**

**FLORIDA FISH AND WILDLIFE CONSERVATION  
COMMISSION**

**PRIVATE LANDOWNERS**

**PROJECT PROPOSAL**

The U.S. Fish and Wildlife Service (USFWS), in cooperation with The Nature Conservancy (TNC), the Florida Fish and Wildlife Conservation Commission (FWCC), U.S. Department of Defense (DoD), and private landowners propose to restore the Dripping Rock site on the Yellow River, Covington County, Alabama by reshaping streambank habitat, planting native vegetation, installing permanent gates, and re-contour floodplain terrace to reduce and eliminate sedimentation. The USFWS, along with FWCC, TNC, DoD, and the private landowners will be funding components of this

project to benefit threatened Gulf sturgeon spawning habitat, migratory fish species, and restore floodplain wetland plant communities.

## **BACKGROUND**

Habitat degradation is a primary factor in the decline of biodiversity in aquatic ecosystems in the southeastern U.S. Riverine and riparian restoration are often necessary to conserve and restore natural function, connectivity, and biodiversity of rivers affected by habitat degradation. The Yellow River (Pensacola Bay Drainage) is a large, blackwater river which flows through forested and agricultural lands in Alabama and Florida. While the Yellow River is noted for relatively high fish and mollusk biodiversity, its watershed is currently being impacted by a variety of nonpoint sources of pollution, notably sedimentation resulting from river bank instability. This excessive sedimentation causes habitat smothering, loss of in-stream habitat, and ultimately large-scale degradation of river ecology and function.

The Gulf sturgeon (*Acipenser oxyrinchus desotoi*) is a federally threatened species indigenous to Gulf of Mexico river drainages, including the Yellow River. The Yellow River, downstream from Alabama State Highway 55, is designated as critical habitat for Gulf sturgeon. The USFWS identified five potential spawning sites on the Yellow River that possess the features – limestone outcroppings, cobble, and gravel – which are essential for successful sturgeon spawning. The “Dripping Rock” site was identified as having the best potential spawning habitat of the five sites and was the only one from which sturgeon eggs have been documented (Figures 1, 2, and 3).

However, this location has substantial public use along its banks adjacent to this spawning area. This has resulted in denuded river banks which are known to slough substantial amounts of sediment to the Gulf sturgeon spawning area during rain events and high river flow periods. This has resulted in reduced water quality and significant bank erosion (Figure 4) at this site, and is believed to smother and otherwise degrade the natural bedrock and gravel spawning substrate needed by Gulf sturgeon for population recovery in this river. The USFWS Gulf Sturgeon Recovery/Management Plan (1995) identifies habitat degradation, including degradation and loss of spawning habitat, as a significant contributor to the decline of this species and responsible for its listing under the Endangered Species Act. The plan also recommends habitat restoration to reduce these impacts for long-term recovery of Gulf sturgeon populations in affected systems.

## **PROBLEM**

This location, known locally as “Dripping Rock”, is located on the western bank of the Yellow River approximately two miles downriver of Alabama State Highway 55, in Covington County, AL (FDEP 2002). Dripping Rock is characterized by a denuded riverbank and an unpaved road which terminates at the site and is directly adjacent to one of five potential Gulf sturgeon spawning sites and is the only site from which sturgeon eggs have been documented in the Yellow River (USFWS 2001). The “Dripping Rock”



site also has substantial public use along its banks adjacent to this spawning area. This site is accessed by the unpaved road, in which persons trespass over private property to reach the river, and vandalism is common. Destruction of the riverbank by trespassers apparently facilitates large amounts of sediment from the unpaved road to enter the river and is believed to smother and otherwise degrade the natural bedrock and gravel spawning substrate needed by Gulf sturgeon in the Yellow River (FDEP 2002).

The “Dripping Rock” locality was assessed during Phase 1 of the “Inventory and Prioritization of Impaired Sites in the Yellow River Watershed in Florida” (FWC Agreement Number 08232). This location (site number co-0610-001) was identified as an area of substantial impairment that affected several biological and habitat resources in the Yellow River, including Gulf sturgeon as described above. Because the limestone hard-bottom which characterizes this site is rare in the basin, the USFWS also believe that this is a potential locality for at least one of the five mussels which are currently candidates for protection under the Endangered Species Act. Although located in Alabama, the factors degrading this site (e.g., sedimentation for an unpaved road) directly affect the quality of softwater streams in Florida located directly downriver from the site and biological resources of Florida freshwaters such as the Gulf sturgeon and species designated as Species of Greatest Conservation Need such as Alabama shad (*Alosa alabamae*), which are similarly affected by this habitat degradation (FWC 2005). Sedimentation originating from the unpaved road and denuded riverbank is considered a “High ranking Sources of Stress” to softwater streams, categorized under the heading “roads” in the CWCS (FWC 2005). The State of Florida has previously identified this location as impacting Florida resources and recommend restoration at this site (FDEP 2002). In addition, the State of Florida has identified this drainage in both Alabama and Florida as an important conservation unit for Gulf sturgeon and recommend habitat restoration for long-term recovery and conservation of its stocks (Wakeford 2001). The cost of restoring this site is relatively low in comparison to similar river restoration actions. In total, restoration of the “Dripping Rock” will directly improve several high-priority Florida habitat and biological resources at a relatively low cost.

## **RESTORATION PLAN DESCRIPTION AND BUDGET**

We will restore the riverbank as well as the unpaved road leading to the riverbank at Dripping Rock using standard river corridor restoration techniques which have been employed successfully elsewhere in the Yellow River and nearby river drainages (NRCS 2001, USFWS 2005). Generally, we will fill, grade, stabilize, and revegetate the road and river corridor at the site. In addition, we will install a main enclosure gate and a secondary gate to prevent illegal trespassing at the site and ensure long-term stabilization and recovery.

We propose the physical modification of the unpaved road, right floodplain, and streambank on the Yellow River at the Dripping Rock Site (see Appendix 1 for Engineering Design). This includes constructing a contoured terrace within the floodplain and streambank to stabilize slope habitat and plant with native vegetation. Specifically, we propose to (1) stabilize the length of the impacted streambank and

floodplain using natural fiber erosion control cloth, (2) provide native shrub and tree material planting along the stream corridor for future stabilization and habitat recovery, (3) seed all exposed areas with annual and perennial plants, and (4) install heavy duty gate at main entrance and secondary gate mid-way to minimize vehicular traffic. An itemized list with total quantities needed for the restoration is located in Table 1, including erosion control fabric for short-term sediment/bank stabilization; stakes for setting the erosion control fabric; trees, shrubs, herbaceous plants, and temporary seed for revegetation and long-term sediment/bank stabilization, and fill dirt for assuring necessary grade; and substrate for long-term revegetation and site stabilization. All plantings and material for this project will follow guidelines outlined and recommended in Appendix 2.

Table1. Itemized list of materials and cost needed for the Dripping Rock Site, Yellow River, AL.

Item	Quantity	Unit Price	Total Cost
Main Gate-4" steel tube gates(installed)	2	1550.00	3100.00
4" steel post road barricade(installed)	15	250.00	3750.00
Secondary Gate	2	425.00	850.00
Seeding (browntop, lime fertilizer, Bahia, mulch and planting)	2 acres	1650.00	3300.00
Fill Dirt	300 cuYDS	7.00	2100.00
Topsoil	50 cuYDS	10.00	500.00
Mobilization and Demobilization	job	1500.00	1500.00
Tree Planting	175	7.00	1225.00
Shaping, filling and Smoothing (berm and flood plain)	Job	3600.00	3600.00
Total			\$ 19,925.00

## PROJECT OBJECTIVES

The objectives of this project are to (1) reshape the right streambank at the Yellow River to create a stable slope and minimize sedimentation, (2) replant riparian vegetation to restore the natural floodplain ecosystem along the Yellow River, (3) isolate the reach from degradation caused by vehicles, and (4) provide stream corridor habitat necessary for long-term (+10 years) recovery of the natural riparian vegetation community of this stream system.

## **EXPECTED BENEFITS**

Benefits of restoring Dripping Rock Site include: (1) recovery of in-stream habitat for spawning Gulf sturgeon; (2) recovery of native aquatic biota typical to Yellow River stream ecosystems, such as flow-dependent fish and macroinvertebrate species; (3) restoration of natural in-stream water quality and sediment dynamics, which influence the aquatic preserve as described above; (4) increased resilience of aquatic species' populations to population fluctuations; (5) restoration of stream corridor habitat for long-term recovery of the natural riparian vegetation community of this stream system; (6) aesthetic improvement of habitat from degraded to recovered condition; and (7) improvement to condition and management of public resources.

## **SCHEDULE**

We will restore the riverbank as well as the unpaved road leading to the riverbank at "Dripping Rock" from June – July 2011.

## **CONTACTS**

For further information contact Chris Metcalf, FWS (850) 769-0552 x224 or Steve Herrington, TNC (850) 381-1147.



Figure 1. Location of Restoration at “Dripping Rock” site on the Yellow River.

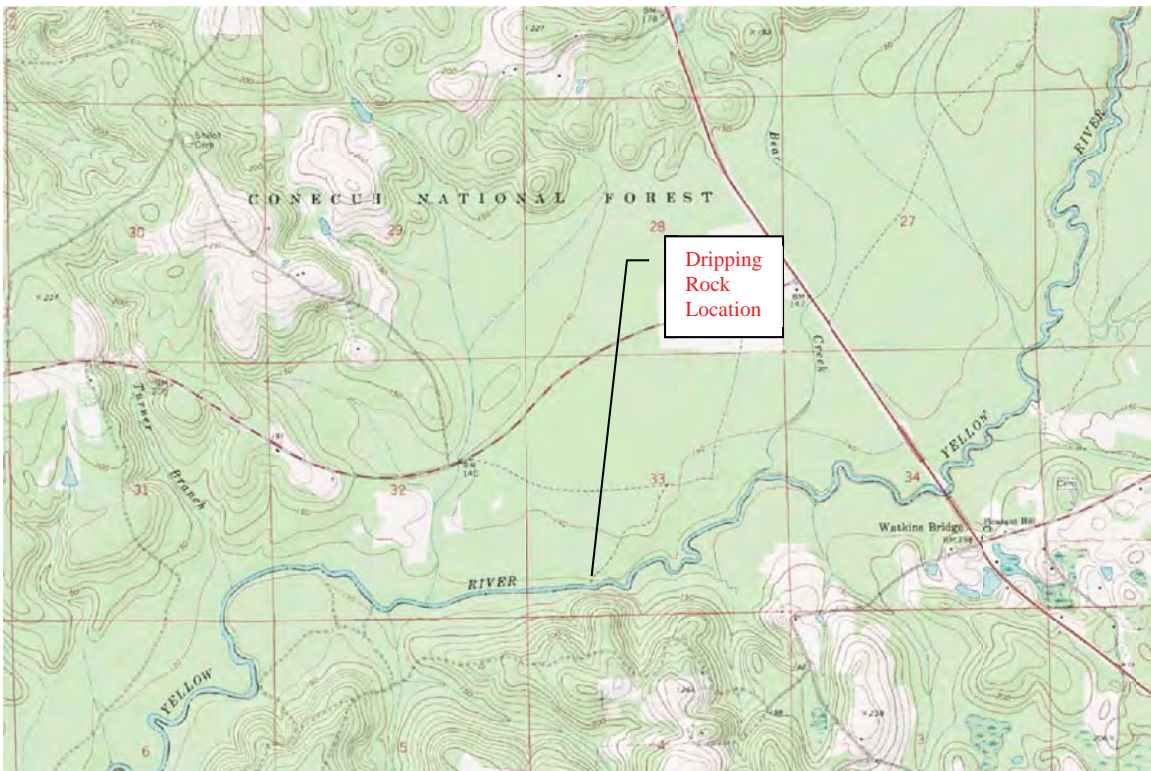


Figure 2. Topographic location of the “Dripping Rock” site on the Yellow River.



**Figure 3. Existing conditions of the Dripping Rock site on the Yellow River.**



**Figure 4. Erosional site discharging into the Dripping Rock site, Yellow River.**



**Figure 5. Eroding unpaved road discharging into the Dripping Rock site, Yellow River.**



**Figure 6. Local impacts on Gulf sturgeon spawning habitat at the Dripping Rock site, Yellow River.**

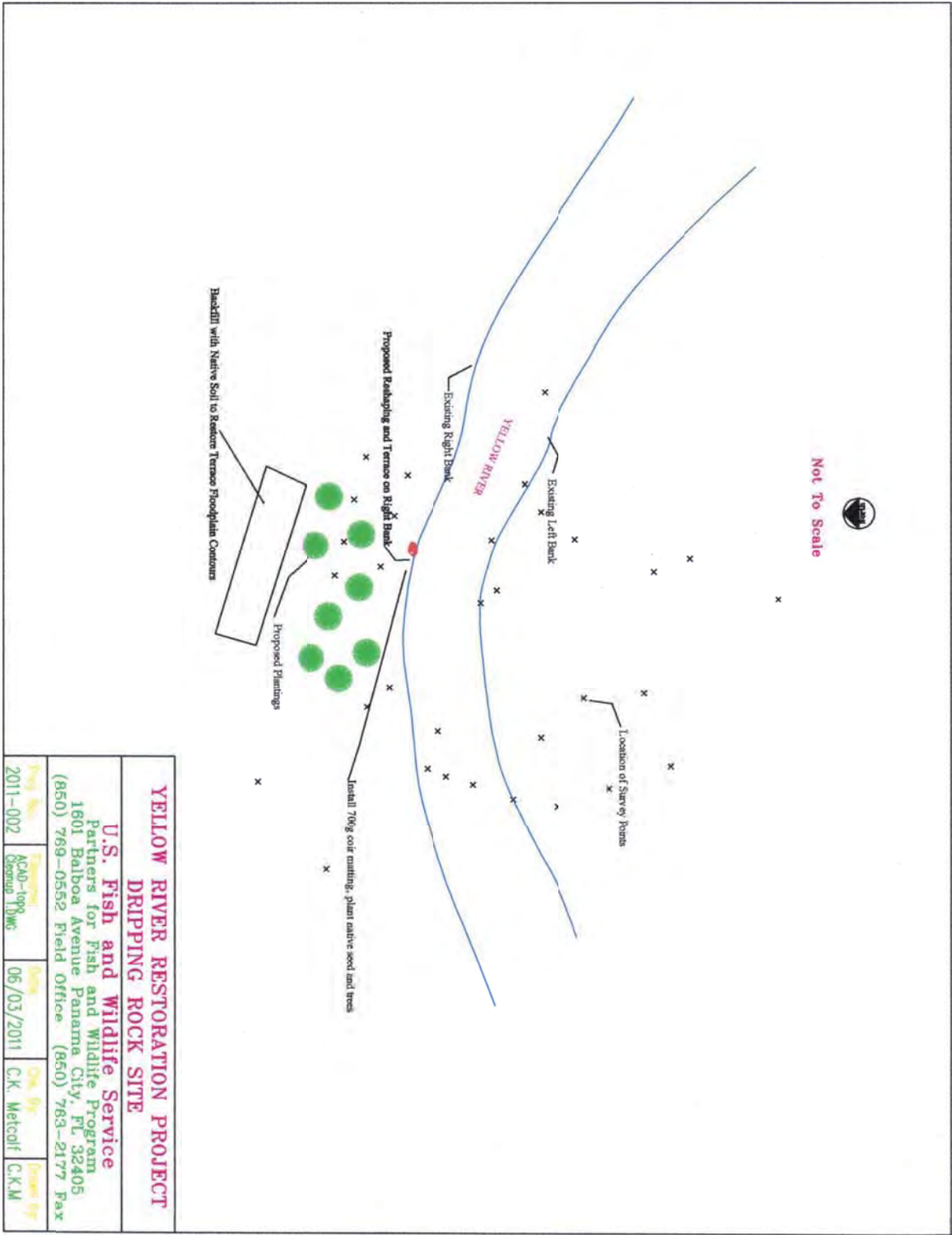
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# Appendix 1 Engineering Drawings



## Appendix 2

### Plant Material and Erosion Control Recommendations for Restoration of Coastal Plain Streams

Chris Metcalf  
U.S. Fish and Wildlife Service  
Panama City Fisheries Office  
Partners for Fish and Wildlife Program  
Panama City, FL 32405  
850/769-0552



The U.S. Fish and Wildlife Service, through the Partners for Fish and Wildlife Program, is actively conducting stream restoration projects within the Northeast Gulf Ecosystem portions of Florida, Alabama and Georgia. As part of the restoration process, plant materials and erosion control is needed to provide stabilization of streambanks and floodplain areas. We recommend using the following materials for restoration. For best plant material recommendations, identify existing plant species at reference locations.

#### Herbaceous Seed Material:

Temporary and permanent seed should be broadcast on all exposed soils upon completion of each project. The following seed mixes are recommended to use at various zones along the streambank, riparian and upland areas. On average, about 10 lbs/acre should be applied on bare soil.

#### **Wet Condition Seed Mix (apply to streambank)**

Virginia Wild Rye – 20%  
Big Bluestem – 20%  
Eastern Gama Grass – 30%  
Switch Grass – 10%  
Partridge Pea – 20%

Redtop grass (*Agrostis stolonifera*) can also be used in addition to the above seed mix.

#### **Semi Dry Conditions Seed Mix (apply to upper streambanks and floodplain areas)**

Big Bluestem – 20%  
Little Bluestem – 15%  
Blackeyed Susan – 15%  
Indian Grass – 20%  
Virginia Wild Rye – 10%  
Switch Grass – 5%  
Showy Partridge Pea – 5%

### **Dry Conditions Mix (apply to upland/dry areas)**

A combination of these seeds should add up to 100%. These species can also be added into the Semi-Dry mix. Florida ecotype seed is preferred.

Bitter panicgrass (*Panicum amarum*)  
Needleleaf witchgrass (*Dichanthelium aciculare*)  
Black-eyed susan (*Rudbeckia hirta*)  
Common trumpetcreeper (*Campsis radicans*)  
American beautyberry (*Callicarpa americana*)  
Shortspike Bluestem (*Andropogon brachystachyus*)  
Wiregrass (*Aristida spp*)  
Coastal Plain Chaffhead (*Carphephorus corymbosus*)  
Toothachegrass (*Ctenium aromaticum*)  
Tall Elephantsfoot (*Elephantopus spp.*)  
Pinebarren Goldenrod (*Solidago fistulosa*)  
Garber's Blazing Star (*Liatris garber*)  
Narrowleaf Silkgrass (*Pityopsis graminifolia*)  
Yelloweyed Grass (*Xyris spp*)

All exposed soils should be temporally treated with an annual grass or plant that will germinate quickly for immediate stabilization. During the winter months, annual grains (rye, oats, or wheat) and/or annual rye grass should be planted. In summer, sorghum or brown top millet should be planted. Rates of planting for temporary stabilization should be at about 5-10 lbs/acre. Native St. Augustine can also be sprigged or sodded along streambanks for critical stabilization. Additionally, mycorrhizae should be added to soil for revegetation success.

### **Woody Plant Material:**

Permanent tree and shrubs should be planted upon completion of each project. Plant materials can be constructed as fascines, live stakes and/or whole live trees/shrubs. Planting should occur along all exposed streambanks and floodplain areas. The following plants are recommended for various planting methods.

#### *Fascines Plants*

The following plants are recommended to construct live fascines. All fascines should be harvested during the winter/dormant months and planted along the streambank where ground water will be exposed to bark. Fascines should range between 4' to 6' long and planted parallel to the bank at 2 foot spacing.

Buttonbush (*Cephalanthus occidentalis*)  
Swamp dogwood (*Cornus foemina*)  
Silky dogwood (*C. amomum*)  
Sandbar willow (*Salix exigua*)  
Black willow (*Salix nigra*)

#### *Live stakes*

The following plants are recommended to make live stakes. All live stakes should be harvested during the winter/dormant months and planted along the streambank where ground water will be exposed to bark. Live stakes should range between 12" to 48" long and planted at a spacing of 2 feet (Figures 1 and 2).

River birch (*Betula nigra*)  
Buttonbush (*Cephalanthus occidentalis*)  
Swamp dogwood (*Cornus foemina*)  
Silky dogwood (*C. amomum*)  
Tulip (yellow) polar (*Liriodendron tulipifera*)  
Sycamore (*Plantanus occidentalis*)  
Carolina willow (*Salix caroliniana*)  
Sandbar willow (*Salix exigua*)  
Black willow (*Salix nigra*)  
Elderberry (*Sambucus Canadensis*)

#### *Shrubs*

The following shrubs are recommended for planting. All shrub materials should be planted during the winter/dormant months and planted along the streambank and throughout the floodplain areas. Shrubs should be planted at a spacing rate of 18" to 36".

River locust [Indigo-Bush] (*Amorpha fruticosa*)  
Wax myrtle (*Myrica cerifera*)  
Sweet pepper bush (*Clethra alnifolia*)  
Hazel alder (*Alnus rugosa* [syn. *Alnus serrulata*])  
Swamp dogwood (*Cornus foemina*)  
Silky dogwood (*C. amomum*)  
Buttonbush (*Cephalanthus occidentalis*)  
Carolina willow (*Salix caroliniana*)  
Virginia willow (*Itea virginica*)  
Titi (*Cyrella racemiflora*)

Southern bayberry or Wax myrtle (*Myrica cerifera*)

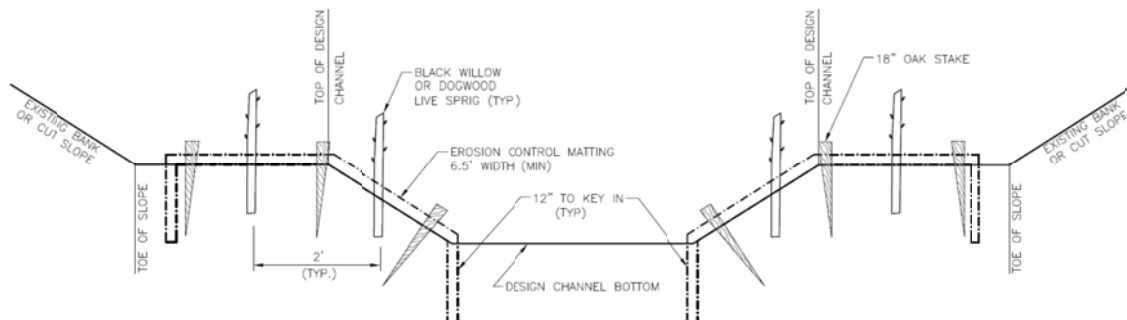
### *Riparian Trees*

The following trees are recommended for planting. All trees should be planted during the winter/dormant months and planted along streambank and throughout the floodplain areas. Trees should be planted at a spacing rate of 12' to 16'.

- Baldcypress (*Taxodium distichum*)
- Green ash (*Fraxinus pennsylvanica*)
- Swamp laurel oak (*Quercus laurifolia*)
- Overcup oak (*Quercus lyrata*)
- Swamp chestnut oak (*Quercus michauxii*)
- Water oak (*Quercus nigra*)
- Tulip (yellow) polar (*Liriodendron tulipifera*)
- American sycamore (*Platanus occidentalis*)
- Water tupelo (*Nyssa aquatica*)
- Blackgum (*Nyssa sylvatica*)
- Ogeechee tupelo (*Nyssa ogeche*)
- Needle palm (*Sabal palmetto*)
- Dogwood tree (*Cornus florida*)
- American beech (*Fagus grandifolia*)
- Red maple (*Acer rubra*)
- River birch (*Betula nigra*)
- Atlantic white cedar (*Chamaecyparis thyoides*)
- Sweet bay (*Magnolia virginiana*)

### Erosion Control Fabric:

Coir fiber blankets should be placed on all exposed streambank soils and anchored with either live or wooden (minimum length 18") stakes every 4 feet (Figures 1 and 2). Blankets should be woven with a minimum weight of 700 grams/square meter. Along exposed upper slopes and floodplain areas, blown hay and wooden fiber blanket (i.e., excelsior) should be installed and securely fastened with either wooden stakes or metal staples.



**Figure 1. Typical Erosion Control Fabric Type and Placement Along Streambank with Live Staking Placement.**

NOTES:

1. STAKE TO HAVE TAPERED POINT 18" - 1" X 1" OAK OR EQUIVALENT. TAPERED 24' STAKES SHOULD BE USED IN HIGH SHEAR STRESS LOCATIONS (TO BE DETERMINED BY SITE ENGINEER).
2. EROSION CONTROL MATTING TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATOINS FOR LENGTH OF DESIGN CHANNEL. MATTING IS TO BE GEOCOIR/DeKoWe 700g/m<sup>2</sup>. CONTRACTOR RESPOSIBLE FOR COORDINATING WITH MANUFACTURER.
3. BEGIN MATTING INSTALLATION AT DESIGN CHANNEL BOTTOM AND INSTALL ONE WIDTH OF MATTING (6.5' MIN) FOR LENGTH OF PROJECT.
4. BLACK WILLOW, DOGWOOD OR EQUIVILANT LIVE SPRIGS TO BE PLANTED AT 2' OC FOR LENGTH OF DESIGN CHANNEL. SPRIGS TO BE 2'-4' IN LENGTH, NO MORE THAN 2' IN DIAMETER.

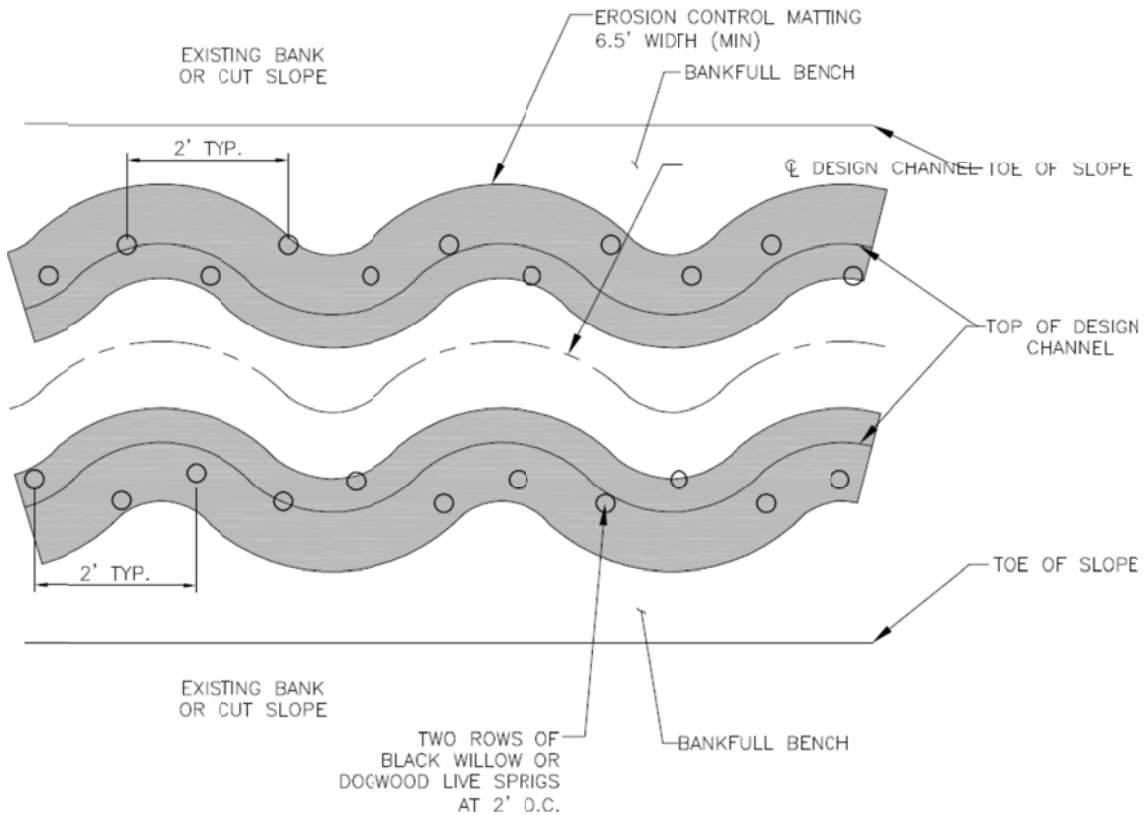


Figure 2. Typical Live Staking Placement Along Streambank.