

APPENDIX 1. ICE HARBOR ADULT FISHWAY INSPECTIONS 2013												APPENDIX 2 (CONTINUED). ICE HARBOR ADULT FISHWAY INSPECTIONS 2013											
DATES:	4-Mar	5-Mar	6-Mar	11-Mar	12-Mar	14-Mar	18-Mar	19-Mar	20-Mar	21-Mar	DATES:	25-Mar	26-Mar	27-Mar	1-Apr	2-Apr	4-Apr	8-Apr					
CHANNEL VELOCITIES IN SOUTH FISHWAY:	NA	1.6	2.4	2.1	2.4	2.3	2.1	2.4	NA	2.3	CHANNEL VELOCITIES IN SOUTH FISHWAY:	1.5	2.8	2.1	1.7	1.7	2.5	2.2					
ELEVATIONS:											ELEVATIONS:												
South Fish Ladder											South Fish Ladder												
Forebay	NA	438.7	439.0	439.2	439.2	439.0	438.0	438.1	437.4	438.3	Forebay	438.5	438.6	438.8	438.1	437.8	437.6	437.9					
Exit Pool	NA	438.6	439.0	439.2	439.2	439.0	438.0	438.0	437.3	438.3	Exit Pool	438.5	438.6	438.8	438.1	437.8	437.5	437.9					
Makeup Diffuser	NA	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	Makeup Diffuser	434.1	434.1	434.1	434.1	434.1	434.1	434.1					
U S Picketed Leads	NA	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	U S Picketed Leads	381.1	381.1	381.1	381.1	381.1	381.1	381.1					
D S Picketed Leads	NA	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	D S Picketed Leads	381.0	381.0	381.0	381.0	381.0	381.0	381.0					
North Fish Ladder											North Fish Ladder												
Forebay	438.8	438.7	439.0	439.2	439.2	439.0	438.1	438.3	437.5	438.3	Forebay	438.5	438.6	438.8	438.0	437.8	437.6	437.9					
Exit Pool	438.8	438.7	439.0	439.2	439.2	439.0	438.0	438.3	437.5	438.3	Exit Pool	438.5	438.6	438.8	438.0	437.8	437.5	437.9					
Makeup Diffuser	434.2	434.2	434.2	434.2	434.1	434.2	434.2	434.2	434.2	434.2	Makeup Diffuser	434.2	434.2	434.2	434.2	434.2	434.2	434.2					
U S Picketed Leads	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	U S Picketed Leads	434.2	434.2	434.2	434.2	434.2	434.2	434.2					
D S Picketed Leads	434.2	434.2	434.2	434.2	434.1	434.2	434.2	434.2	434.2	434.2	D S Picketed Leads	434.2	434.2	434.2	434.2	434.2	434.2	434.2					
Collection Channels											Collection Channels												
South Pwrth SG4	NA	343.0	342.6	341.7	342.2	343.4	344.2	342.0	343.5	342.3	South Pwrth SG4	342.2	342.0	342.8	345.0	346.0	343.5	346.0					
North Pwrth SG2	NA	342.5	342.0	341.1	341.7	342.8	343.7	341.6	342.9	341.9	North Pwrth SG2	341.7	341.4	342.3	344.7	345.4	342.8	345.5					
North Shore SG30	342.9	342.4	342.0	341.5	342.0	342.9	343.8	341.9	343.0	341.9	North Shore SG30	341.6	341.6	342.8	344.6	345.3	341.2	343.6					
Tailwater											Tailwater												
South Pwrth SG3	NA	341.4	340.9	339.9	340.7	341.6	342.4	340.3	341.7	340.6	South Pwrth SG3	340.4	340.3	341.2	343.5	344.2	341.7	344.5					
North Pwrth SG1	NA	341.4	340.9	339.9	340.7	341.6	342.4	340.3	341.7	340.5	North Pwrth SG1	340.4	340.3	341.2	343.5	344.1	341.7	344.5					
North Shore SG29	341.9	341.3	340.7	340.0	340.7	341.6	342.4	340.5	341.7	340.5	North Shore SG29	340.0	340.2	341.1	343.2	343.8	339.5	342.5					
Entrance Weirs											Entrance Weirs												
SFE 1	NA	332.6	332.5	332.3	332.4	333.1	333.9	332.2	333.3	332.3	SFE 1	332.3	332.3	332.7	334.8	335.5	333.1	335.5					
NFE 2	NA	333.6	332.3	332.3	332.3	332.8	333.8	332.3	333.2	332.3	NFE 2	332.3	332.3	332.7	334.8	335.4	332.3	334.2					
NSE 1	332.3	332.3	332.3	332.3	332.3	332.7	333.4	332.1	332.8	332.3	NSE 1	332.3	332.3	332.4	333.9	334.5	332.3	332.7					
DIFFERENTIALS/DEPTHS:											DIFFERENTIALS/DEPTHS:												
South Fish Ladder											South Fish Ladder												
Ladder Exit	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.1	0.0					
Ladder Weirs	NA	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	Ladder Weirs	1.1	1.1	1.1	1.1	1.1	1.1	1.1					
Counting Station	NA	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	Counting Station	0.1	0.1	0.1	0.1	0.1	0.1	0.1					
North Fish Ladder											North Fish Ladder												
Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.1	0.0					
Ladder Weirs	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	Ladder Weirs	1.2	1.2	1.2	1.2	1.2	1.2	1.2					
Counting Station	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.1					
Collection Channels											Collection Channels												
South Shore	NA	1.6	1.7	1.8	1.5	1.8	1.8	1.7	1.8	1.7	South Shore	1.8	1.7	1.6	1.5	1.8	1.8	1.5					
North Powerhouse	NA	1.1	1.1	1.2	1.0	1.2	1.3	1.3	1.2	1.4	North Powerhouse	1.3	1.1	1.1	1.2	1.3	1.1	1.0					
North Shore	1.0	1.1	1.3	1.5	1.3	1.3	1.4	1.4	1.3	1.4	North Shore	1.6	1.4	1.7	1.4	1.5	1.7	1.1					
Weir Depths											Weir Depths												
SFE 1	NA	8.8	8.4	7.6	8.3	8.5	8.5	8.1	8.4	8.3	SFE 1	8.1	8.0	8.5	8.7	8.7	8.6	9.0					
NFE 2	NA	7.8	8.6	7.6	8.4	8.8	8.6	8.0	8.5	8.2	NFE 2	8.1	8.0	8.5	8.7	8.7	9.4	10.3					
NSE 1	9.6	9.0	8.4	7.7	8.4	8.9	8.0	8.4	8.9	8.2	NSE 1	7.7	7.9	8.7	9.3	9.3	7.2	9.8					
CRITERIA POINTS:											CRITERIA POINTS:												
Channel Velocities											Channel Velocities												
NA	YES	YES	YES	YES	YES	YES	YES	YES	NA	YES	YES	YES	YES	YES	YES	YES	YES	YES					
Differentials											Differentials												
South Fish Ladder											South Fish Ladder												
Ladder Exit	NA	YES	YES	YES	YES	YES	YES	YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES					
Ladder Weirs	NA	YES	YES	YES	YES	YES	YES	YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES					
Counting Station	NA	NA	YES	YES	YES	NA	YES	YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES					
North Fish Ladder											North Fish Ladder												
Ladder Exit	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES					
Ladder Weirs	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES					
Counting Station	YES	YES	YES	YES	YES	NA	YES	YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES					
Collection Channels											Collection Channels												
South Shore	NA	YES	YES	YES	YES	YES	YES	YES	YES	YES	South Shore	YES	YES	YES	YES	YES	YES	YES					
North Powerhouse	NA	YES	YES	YES	YES	YES	YES	YES	YES	YES	North Powerhouse	YES	YES	YES	YES	YES	YES	YES					
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	North Shore	YES	YES	YES	YES	YES	YES	YES					
Weir Depths											Weir Depths												
SFE 1	NA	YES	YES	SILL	YES	YES	YES	YES	YES	YES	SFE 1	YES	YES	YES	YES	YES	YES	YES					
NFE 2	NA	NO	YES	SILL	YES	YES	YES	YES	YES	YES	NFE 2	YES	YES	YES	YES	YES	YES	YES					
NSE 1	YES	YES	YES	SILL	YES	YES	YES	YES	YES	YES	NSE 1	SILL	SILL	YES	YES	YES	SILL	YES					

FISHWAY INSPECTIONS 2013

APPENDIX 2 (CONTINUED): ICE HARBOR ADULT FISHWAY INSPECTIONS 2013

26-Jun	1-Jul	2-Jul	3-Jul	8-Jul	9-Jul	10-Jul	15-Jul	17-Jul	18-Jul	22-Jul	23-Jul	24-Jul	29-Jul	31-Jul	1-Aug	5-Aug	6-Aug
2.2	2.2	1.8	2.4	2.5	2.3	2.5	2.4	2.5	2.4	2.2	2.6	2.1	2.7	2.4	2.6	2.5	2.2
CHANNEL VELOCITIES IN SOUTH FISHWAY:																	
ELEVATIONS:																	
South Fish Ladder																	
437.7	437.6	437.6	437.4	437.5	437.4	437.8	437.7	437.6	437.6	437.8	437.8	437.6	437.6	437.8	437.7	437.7	437.5
437.7	437.6	437.5	437.3	437.4	437.3	437.7	437.8	437.5	437.6	437.7	437.8	437.6	437.5	437.7	437.7	437.7	437.3
434.1	434.1	434.1	434.0	434.1	434.1	434.1	434.1	434.1	434.2	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.0
381.1	381.1	381.1	381.1	381.1	381.2	381.1	381.1	381.1	381.1	381.2	381.1	381.1	381.1	381.2	381.1	381.1	381.1
381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	380.0
North Fish Ladder																	
437.7	437.5	437.6	437.4	437.5	437.5	437.8	437.7	437.6	437.6	437.8	437.7	437.6	437.6	437.8	437.7	437.7	437.5
437.7	437.5	437.6	437.4	437.5	437.5	437.8	437.7	437.7	437.7	437.8	437.7	437.8	437.6	437.8	437.7	437.7	437.5
434.2	434.2	434.1	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.1	434.2	434.2	434.2	434.2	434.1	434.2	434.2
434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.3	434.3	434.2	434.1	434.3	434.2	434.2	434.2	434.2	434.2
434.2	434.2	434.1	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.1	434.2	434.2	434.2	434.1	434.2	434.2
Collection Channels																	
342.8	343.0	344.6	343.0	342.0	342.1	341.7	342.0	341.5	341.7	341.4	341.6	341.6	341.6	341.8	341.6	341.5	341.5
342.3	342.5	343.0	342.5	341.5	341.5	341.0	341.6	341.0	341.0	340.7	340.8	341.0	341.0	341.2	341.1	340.9	341.5
341.9	340.8	341.4	341.9	341.1	340.9	341.4	341.1	341.1	340.7	340.5	340.7	341.0	341.0	340.8	340.9	340.6	340.7
Tailwater																	
341.0	341.2	342.6	341.7	340.2	340.5	339.7	340.2	339.6	340.0	339.6	340.0	339.9	340.3	340.2	340.2	340.0	340.0
341.0	341.4	342.0	341.5	340.2	340.5	339.8	340.5	340.0	340.0	339.7	339.6	340.0	339.9	340.3	340.2	339.9	340.2
340.7	339.6	340.0	340.8	340.2	339.7	339.7	339.8	338.7	338.7	338.8	338.6	338.7	338.7	338.7	339.8	337.9	338.7
Entrance Weirs																	
332.5	332.6	333.2	332.7	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.2	332.3	332.3	332.3	332.3	332.3	332.3
332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3
332.7	332.3	332.3	332.7	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3
DIFFERENTIALS/DEPTHS:																	
South Fish Ladder																	
0.0	0.0	0.1	0.1	0.1	0.1	0.1	-0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.2
1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0
0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	1.1
North Fish Ladder																	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0
1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.2	1.1	1.2
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Collection Channels																	
1.8	1.8	2.0	1.3	1.8	1.6	2.0	1.8	1.9	1.7	1.4	2.0	1.6	1.7	1.5	1.4	1.5	1.5
1.3	1.1	1.0	1.0	1.3	1.0	1.2	1.1	1.0	1.0	1.0	1.2	1.0	1.1	0.9	0.9	1.0	1.3
1.2	1.2	1.4	1.1	0.9	1.2	1.7	1.3	2.4	2.0	1.7	2.1	2.0	2.3	2.1	1.1	2.7	2.0
Weir Depths																	
8.5	8.6	9.4	9.0	7.9	8.2	7.4	7.9	7.3	7.7	7.4	7.7	7.6	8.0	7.9	7.7	7.7	7.7
8.7	9.1	9.7	9.2	7.9	8.2	7.5	8.2	7.7	7.7	7.4	7.3	7.7	7.6	8.0	7.5	7.6	7.9
8.0	7.3	7.7	8.1	7.9	7.4	7.4	7.5	6.4	6.4	6.5	6.3	6.4	6.4	6.4	7.5	5.6	6.4
CRITERIA POINTS:																	
Channel Velocities																	
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials																	
South Fish Ladder																	
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO
North Fish Ladder																	
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Collection Channels																	
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES
YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	NO	YES	NO	NO	YES	NO	YES
Weir Depths																	
YES	YES	YES	YES	SILL	YES	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL	SILL
YES	YES	YES	YES	SILL	YES	SILL	YES	SILL	SILL	SILL	SILL	SILL	SILL	YES	NO	SILL	SILL
YES	SILL	SILL	YES	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL

APPENDIX 2 (CONTINUED). ICE HARBOR ADULT FISHWAY INSPECTIONS 2013

12-Sep	16-Sep	DATES:	17-Sep	18-Sep	19-Sep	24-Sep	25-Sep	26-Sep	30-Sep	1-Oct	3-Oct	7-Oct
2.5	2.3	CHANNEL VELOCITIES IN SOUTH FISHWAY:	2.3	2.4	2.5	2.9	2.2	2.7	2.3	2.6	2.5	2.3
		ELEVATIONS:										
		South Fish Ladder										
439.2	438.8	Forebay	438.7	438.9	439.1	439.4	439.3	438.9	439.2	438.1	438.2	438.8
439.2	438.7	Exit Pool	438.7	438.8	439.1	439.4	439.2	438.9	439.1	438.1	438.2	438.8
434.1	434.1	Makeup Diffuser	434.2	434.1	434.2	434.1	434.1	434.2	434.2	434.1	434.1	434.1
381.3	381.1	U S Picketed Leads	381.1	381.2	381.1	381.1	381.3	381.1	381.1	381.1	381.1	381.1
381.0	381.0	D S Picketed Leads	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
		North Fish Ladder										
439.3	439.0	Forebay	438.7	438.9	439.2	439.4	439.4	438.9	439.2	438.2	438.2	438.9
439.3	439.0	Exit Pool	438.7	438.9	439.1	439.4	439.4	438.9	439.2	438.2	438.2	438.9
434.2	434.2	Makeup Diffuser	434.2	434.2	434.2	434.3	434.2	434.1	434.2	434.2	434.2	434.2
434.3	434.3	U S Picketed Leads	434.3	434.3	434.4	434.3	434.3	434.2	434.3	434.2	434.3	434.3
434.2	434.2	D S Picketed Leads	434.2	434.2	434.2	434.2	434.2	434.1	434.2	434.2	434.2	434.2
		Collection Channels										
342.2	341.9	South Pwrh SG4	341.8	341.5	341.6	341.6	341.9	341.7	341.8	343.6	342.6	342.7
341.5	341.2	North Pwrh SG2	341.5	341.0	341.1	341.3	341.3	341.3	341.3	343.0	342.3	342.2
341.2	341.3	North Shore SG30	341.3	340.7	341.4	341.4	341.3	341.4	341.4	342.7	341.7	342.2
		Tailwater										
340.3	339.9	South Pwrh SG3	340.0	339.6	339.7	339.7	340.0	339.9	339.9	341.7	340.9	340.8
340.3	339.8	North Pwrh SG1	340.0	339.6	339.6	339.8	340.0	339.8	339.9	341.6	340.8	340.8
339.7	339.8	North Shore SG29	340.1	338.7	340.2	339.8	340.0	339.9	340.0	341.7	340.6	340.9
		Entrance Weirs										
332.3	332.3	SFE 1	332.3	332.3	332.3	332.3	332.3	332.3	332.3	333.3	332.3	332.3
332.3	332.3	NFE 2	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3
332.3	332.3	NSE 1	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.2	332.3	332.3
		DIFFERENTIALS/DEPTHS:										
		South Fish Ladder										
0.0	0.1	Ladder Exit	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
1.1	1.1	Ladder Weirs	1.2	1.1	1.2	1.1	1.1	1.1	1.2	1.1	1.1	1.1
0.3	0.1	Counting Station	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1
		North Fish Ladder										
0.0	0.0	Ladder Exit	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.2	1.2	Ladder Weirs	1.2	1.2	1.2	1.3	1.2	1.1	1.2	1.2	1.2	1.2
0.1	0.1	Counting Station	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1
		Collection Channels										
1.9	2.0	South Shore	1.8	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.7	1.9
1.2	1.4	North Powerhouse	1.5	1.4	1.5	1.5	1.3	1.5	1.4	1.4	1.5	1.4
1.5	1.5	North Shore	1.2	2.0	1.2	1.6	1.3	1.5	1.4	1.0	1.1	1.3
		Weir Depths										
8.0	7.6	SFE 1	7.7	7.3	7.4	7.4	7.7	7.6	7.6	8.4	8.6	8.5
8.0	7.5	NFE 2	7.7	7.3	7.3	7.5	7.7	7.5	7.6	9.3	8.5	8.5
7.4	7.5	NSE 1	7.8	6.4	7.9	7.5	7.7	7.6	7.7	9.5	8.3	8.6
		CRITERIA POINTS:										
YES	YES	Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
		Differentials										
		South Fish Ladder										
YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
		North Fish Ladder										
YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
		Collection Channels										
YES	YES	South Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	North Powerhouse	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
		Weir Depths										
YES	SILL	SFE 1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	YES	YES	YES
YES	SILL	NFE 2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	YES	YES	YES
SILL	SILL	NSE 1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	YES	YES	YES

DATES:	9-Oct	10-Oct	15-Oct	16-Oct	17-Oct	22-Oct	23-Oct	24-Oct	28-Oct	29-Oct	30-Oct	4-Nov
CHANNEL VELOCITIES												
IN SOUTH FISHWAY:	2.9	2.5	2.6	2.6	2.6	2.6	3.0	2.8	3.0	2.3	3.0	3.2
ELEVATIONS:												
South Fish Ladder												
Forebay	438.8	439.1	439.2	439.3	439.3	438.5	438.9	438.7	438.9	439.3	439.0	439.1
Exit Pool	438.7	439.0	439.1	439.2	439.2	438.4	438.9	438.7	438.9	439.2	439.0	439.0
Makeup Diffuser	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1
U S Picketed Leads	381.1	381.2	381.2	381.2	381.2	381.2	381.2	381.1	381.1	381.1	381.2	381.1
D S Picketed Leads	380.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
North Fish Ladder												
Forebay	438.8	439.2	439.3	439.3	439.2	438.5	438.9	438.7	439.0	439.3	438.9	439.1
Exit Pool	438.8	439.2	439.3	439.3	439.2	438.5	438.9	438.7	439.0	439.3	438.9	439.1
Makeup Diffuser	434.2	434.2	434.2	434.2	434.2	434.1	434.2	434.2	434.2	434.1	434.1	434.1
U S Picketed Leads	434.3	434.3	434.3	434.3	434.2	434.2	434.3	434.3	434.3	434.2	434.2	434.2
D S Picketed Leads	434.2	434.2	434.2	434.2	434.2	434.1	434.2	434.2	434.2	434.1	434.1	434.1
Collection Channels												
South Pwrth SG4	342.1	342.9	342.2	342.8	341.7	342.3	341.5	341.0	340.7	341.5	341.6	341.2
North Pwrth SG2	342.0	342.5	341.5	342.2	341.2	341.8	341.0	340.7	340.2	341.0	341.1	340.7
North Shore SG30	341.8	342.3	341.5	341.9	341.6	341.7	341.1	340.8	340.5	341.2	341.2	340.8
Tailwater												
South Pwrth SG3	340.8	341.2	340.1	340.8	339.8	340.3	339.6	339.0	338.3	339.3	339.4	338.9
North Pwrth SG1	340.5	341.2	340.1	340.9	339.8	340.3	339.6	339.0	338.3	339.4	339.5	338.9
North Shore SG29	340.6	341.0	340.3	340.8	339.7	340.4	339.6	339.0	338.5	339.5	339.4	338.9
Entrance Weirs												
SFE 1	332.2	332.3	332.3	332.4	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3
NFE 2	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3
NSE 1	332.2	332.3	332.3	332.3	332.7	332.3	332.3	332.3	332.3	332.3	332.3	332.3
DIFFERENTIALS/DEPTHS:												
South Fish Ladder												
Ladder Exit	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1
Ladder Weirs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Counting Station	1.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1
North Fish Ladder												
Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ladder Weirs	1.2	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.1	1.1	1.1
Counting Station	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Collection Channels												
South Shore	1.3	1.7	2.1	2.0	1.9	2.0	1.9	2.0	2.4	2.2	2.2	2.3
North Powerhouse	1.5	1.3	1.4	1.3	1.4	1.5	1.4	1.7	1.9	1.6	1.6	1.8
North Shore	1.2	1.3	1.2	1.1	1.9	1.3	1.5	1.8	2.0	1.7	1.8	1.9
Weir Depths												
SFE 1	8.6	8.9	7.8	8.4	7.5	8.0	7.3	6.7	6.0	7.0	7.1	6.6
NFE 2	8.2	8.9	7.8	8.6	7.5	8.0	7.3	6.7	6.0	7.1	7.2	6.6
NSE 1	8.4	8.7	8.0	8.5	7.0	8.1	7.3	6.7	6.2	7.2	7.1	6.6
CRITERIA POINTS:												
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials												
South Fish Ladder												
Ladder Exit	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Ladder Weirs	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Counting Station	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
North Fish Ladder												
Ladder Exit	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Ladder Weirs	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Counting Station	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Collection Channels												
South Shore	YES	YES	NO	YES	YES	YES	YES	YES	NO	NO	NO	NO
North Powerhouse	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Weir Depths												
SFE 1	YES	YES	SILL	YES	SILL	YES	SILL	SILL	SILL	SILL	SILL	SILL
NFE 2	YES	YES	SILL	YES	SILL	YES	SILL	SILL	SILL	SILL	SILL	SILL
NSE 1	YES	YES	YES	YES	NO	YES	SILL	SILL	SILL	SILL	SILL	SILL

APPENDIX 2 (CONTINUED). ICE HARBOR ADULT FISHWAY INSPECTIONS 2013

DATES:	5-Nov	6-Nov	11-Nov	13-Nov	14-Nov	19-Nov	20-Nov	21-Nov	25-Nov	26-Nov
CHANNEL VELOCITIES IN SOUTH FISHWAY:	2.5	2.6	2.5	2.4	2.9	2.1	2.8	2.3	NA	2.6
ELEVATIONS:										
South Fish Ladder										
Forebay	438.5	437.9	438.7	438.5	439.1	439.2	438.9	438.6	438.9	439.0
Exit Pool	438.5	437.8	438.7	438.5	439.0	439.1	438.9	438.5	438.9	439.1
Makeup Diffuser	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1
U S Picketed Leads	381.2	381.2	381.1	381.1	381.2	381.0	381.2	381.2	381.1	381.1
D S Picketed Leads	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.1	381.0
North Fish Ladder										
Forebay	438.4	437.9	438.7	438.6	439.0	439.2	438.9	438.7	438.9	439.1
Exit Pool	438.4	437.9	438.7	438.6	439.0	439.2	438.9	438.7	438.9	439.1
Makeup Diffuser	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.1	434.2
U S Picketed Leads	434.3	434.2	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3
D S Picketed Leads	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2
Collection Channels										
South Pwrth SG4	341.7	341.1	341.6	341.7	341.4	342.0	341.8	342.4	341.0	342.0
North Pwrth SG2	341.2	340.8	341.2	341.1	341.0	341.5	341.4	341.8	340.9	341.5
North Shore SG30	341.3	340.8	341.2	341.3	341.2	341.6	341.3	341.7	341.0	341.6
Tailwater										
South Pwrth SG3	339.8	338.8	339.7	339.8	339.5	340.2	339.8	340.4	339.4	340.0
North Pwrth SG1	339.7	338.8	339.6	339.7	339.5	340.1	339.8	340.4	339.4	340.0
North Shore SG29	339.8	339.1	339.6	339.8	339.5	340.1	339.9	340.3	339.7	340.2
Entrance Weirs										
SFE 1	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.2	332.3
NFE 2	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3
NSE 1	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.2	332.3
DIFFERENTIALS/DEPTHS:										
South Fish Ladder										
Ladder Exit	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1
Ladder Weirs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Counting Station	0.2	0.2	0.1	0.1	0.2	0.0	0.2	0.2	0.0	0.1
North Fish Ladder										
Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ladder Weirs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.2
Counting Station	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Collection Channels										
South Shore	1.9	2.3	1.9	1.9	1.9	1.8	2.0	2.0	1.6	2.0
North Powerhouse	1.5	2.0	1.6	1.4	1.5	1.4	1.6	1.4	1.5	1.5
North Shore	1.5	1.7	1.6	1.5	1.7	1.5	1.4	1.4	1.3	1.4
Weir Depths										
SFE 1	7.5	6.5	7.4	7.5	7.2	7.9	7.5	8.1	7.2	7.7
NFE 2	7.4	6.5	7.3	7.4	7.2	7.8	7.5	8.1	7.1	7.7
NSE 1	7.5	6.8	7.3	7.5	7.2	7.8	7.6	8.0	7.5	7.9
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	NA	YES
Differentials										
South Fish Ladder										
Ladder Exit	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Ladder Weirs	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Counting Station	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
North Fish Ladder										
Ladder Exit	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Ladder Weirs	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Counting Station	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Collection Channels										
South Shore	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
North Powerhouse	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Weir Depths										
SFE 1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL
NFE 2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL
NSE 1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL

APPENDIX 2 (CONTINUED). ICE HARBOR ADULT FISHWAY

DATES:	27-Nov	2-Dec	3-Dec
CHANNEL VELOCITIES IN SOUTH FISHWAY:	2.5	2.6	2.5
ELEVATIONS:			
South Fish Ladder			
Forebay	438.8	439.4	439.1
Exit Pool	438.7	439.4	439.0
Makeup Diffuser	434.1	434.1	434.1
U S Picketed Leads	381.1	381.2	381.1
D S Picketed Leads	381.0	381.0	381.0
North Fish Ladder			
Forebay	438.9	439.4	439.2
Exit Pool	438.9	439.4	439.2
Makeup Diffuser	434.1	434.2	434.2
U S Picketed Leads	434.2	434.3	434.3
D S Picketed Leads	434.1	434.2	434.2
Collection Channels			
South Pwrth SG4	341.2	341.8	344.0
North Pwrth SG2	341.2	341.4	343.5
North Shore SG30	341.4	341.4	344.0
Tailwater			
South Pwrth SG3	338.9	339.8	342.2
North Pwrth SG1	339.0	339.8	342.2
North Shore SG29	339.4	339.9	342.3
Entrance Weirs			
SFE 1	332.3	332.3	333.6
NFE 2	332.3	332.3	332.3
NSE 1	332.3	332.3	334.3
DIFFERENTIALS/DEPTHS:			
South Fish Ladder			
Ladder Exit	0.1	0.0	0.1
Ladder Weirs	1.1	1.1	1.1
Counting Station	0.1	0.2	0.1
North Fish Ladder			
Ladder Exit	0.0	0.0	0.0
Ladder Weirs	1.1	1.2	1.2
Counting Station	0.1	0.1	0.1
Collection Channels			
South Shore	2.3	2.0	1.8
North Powerhouse	2.2	1.6	1.3
North Shore	2.0	1.5	1.7
Weir Depths			
SFE 1	6.6	7.5	8.6
NFE 2	6.7	7.5	9.9
NSE 1	7.1	7.6	8.0
CRITERIA POINTS:			
Channel Velocities	YES	YES	YES
Differentials			
South Fish Ladder			
Ladder Exit	YES	YES	YES
Ladder Weirs	YES	YES	YES
Counting Station	YES	YES	YES
North Fish Ladder			
Ladder Exit	YES	YES	YES
Ladder Weirs	YES	YES	YES
Counting Station	YES	YES	YES
Collection Channels			
South Shore	NO	YES	YES
North Powerhouse	NO	YES	YES
North Shore	YES	YES	YES
Weir Depths			
SFE 1	SILL	SILL	YES
NFE 2	SILL	SILL	YES
NSE 1	SILL	SILL	YES

4-Dec	9-Dec	10-Dec	11-Dec	16-Dec	18-Dec	19-Dec	DATES:	23-Dec	24-Dec	26-Dec		
2.3	2.7	2.8	2.7	2.8	2.9	2.6	CHANNEL VELOCITIES IN SOUTH FISHWAY:	2.4	2.0	2.7		
							ELEVATIONS:				Max	Min
							South Fish Ladder				439.9	437.1
439.2	438.8	438.8	439.1	439.9	439.0	438.9	Forebay	439.1	439.0	439.2	439.4	437.2
439.2	438.8	438.8	439.1	439.9	439.0	438.9	Exit Pool	439.1	439.0	439.2	439.9	437.1
434.1	434.1	434.1	434.1	434.1	434.1	434.1	Makeup Diffuser	434.1	434.1	434.1	434.2	434.0
381.2	381.2	381.2	381.2	381.2	381.2	381.2	U S Picketed Leads	381.2	381.2	381.1	381.3	381.0
381.0	381.0	381.1	381.0	381.0	381.0	381.0	D S Picketed Leads	381.0	381.0	381.0	381.1	380.0
							North Fish Ladder				0.0	0.0
439.3	438.8	439.0	439.2	438.9	439.1	439.1	Forebay	439.1	439.0	439.2	439.4	437.2
439.3	438.8	439.0	439.2	438.9	439.1	439.1	Exit Pool	439.1	439.0	439.2	439.4	437.2
434.2	434.1	434.2	434.2	434.2	434.2	434.2	Makeup Diffuser	434.2	434.2	434.2	434.3	341.1
434.3	434.2	434.2	434.3	434.3	434.3	434.3	U S Picketed Leads	434.3	434.3	434.3	434.4	434.1
434.2	434.1	434.2	434.2	434.2	434.2	434.2	D S Picketed Leads	434.2	434.2	434.2	434.3	434.1
							Collection Channels				0.0	0.0
342.8	342.1	341.8	341.0	341.6	341.5	341.6	South Pwrh SG4	342.2	341.5	341.2	350.2	339.0
342.5	341.6	341.0	340.6	341.0	341.1	341.1	North Pwrh SG2	341.6	341.1	340.2	350.0	340.0
344.3	342.0	340.6	341.1	341.2	341.5	341.3	North Shore SG30	341.7	341.3	341.8	347.9	340.3
							Tailwater				0.0	0.0
341.8	340.4	339.6	339.0	339.5	339.8	339.5	South Pwrh SG3	340.5	339.6	339.2	348.5	338.3
341.5	340.2	339.2	339.0	339.6	339.6	339.5	North Pwrh SG1	340.3	339.6	339.2	348.5	338.3
342.3	340.7	339.6	339.5	339.7	340.0	339.6	North Shore SG29	339.9	339.7	338.8	346.6	332.8
							Entrance Weirs					
333.3	332.3	332.2	332.3	332.3	332.3	332.3	SFE 1	332.3	332.3	332.2	339.6	332.2
332.3	332.3	332.2	332.3	332.3	332.3	332.3	NFE 2	332.3	332.2	332.2	338.7	332.2
333.7	332.3	332.3	332.3	332.3	332.3	332.3	NSE 1	332.3	332.3	332.2	334.5	332.1
							DIFFERENTIALS/DEPTHS:					
							South Fish Ladder				0.2	-0.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	Ladder Exit	0.0	0.0	0.0	1.2	1.0
1.1	1.1	1.1	1.1	1.1	1.1	1.1	Ladder Weirs	1.1	1.1	1.1	1.1	0.0
0.2	0.2	0.1	0.2	0.2	0.2	0.2	Counting Station	0.2	0.2	0.1	0.1	0.0
							North Fish Ladder					
0.0	0.0	0.0	0.0	0.0	0.0	0.0	Ladder Exit	0.0	0.0	0.0	0.1	-0.2
1.2	1.1	1.2	1.2	1.2	1.2	1.2	Ladder Weirs	1.2	1.2	1.2	1.3	-91.9
0.1	0.1	0.0	0.1	0.1	0.1	0.1	Counting Station	0.1	0.1	0.1	0.2	0.0
							Collection Channels					
1.0	1.7	2.2	2.0	2.1	1.7	2.1	South Shore	1.7	1.9	2.0	2.4	-1.3
1.0	1.4	1.8	1.6	1.4	1.5	1.6	North Powerhouse	1.3	1.5	1.0	2.2	0.8
2.0	1.3	1.0	1.6	1.5	1.5	1.7	North Shore	1.8	1.6	3.0	8.3	0.6
							Weir Depths					
8.5	8.1	7.4	6.7	7.2	7.5	7.2	SFE 1	8.2	7.3	7.0	11.5	6.0
9.2	7.9	7.0	6.7	7.3	7.3	7.2	NFE 2	8.0	7.4	7.0	11.7	6.0
8.6	8.4	7.3	7.2	7.4	7.7	7.3	NSE 1	7.6	7.4	6.6	14.4	0.5
							CRITERIA POINTS:					
YES	YES	YES	YES	YES	YES	YES	Channel Velocities	YES	YES	YES		
							Differentials					
							South Fish Ladder					
YES	YES	YES	YES	YES	YES	YES	Ladder Exit	YES	YES	YES		
YES	YES	YES	YES	YES	YES	YES	Ladder Weirs	YES	YES	YES		
YES	YES	YES	YES	YES	YES	YES	Counting Station	YES	YES	YES		
							North Fish Ladder					
YES	YES	YES	YES	YES	YES	YES	Ladder Exit	YES	YES	YES		
YES	YES	YES	YES	YES	YES	YES	Ladder Weirs	YES	YES	YES		
YES	YES	YES	YES	YES	YES	YES	Counting Station	YES	YES	YES		
							Collection Channels					
YES	YES	NO	YES	NO	YES	NO	South Shore	YES	YES	YES		
YES	YES	YES	YES	YES	YES	YES	North Powerhouse	YES	YES	YES		
YES	YES	YES	YES	YES	YES	YES	North Shore	YES	YES	NO		
							Weir Depths					
YES	YES	SILL	SILL	SILL	SILL	SILL	SFE 1	YES	SILL	SILL		
YES	SILL	SILL	SILL	SILL	SILL	SILL	NFE 2	YES	SILL	SILL		
YES	YES	SILL	SILL	SILL	SILL	SILL	NSE 1	SILL	SILL	SILL		

CRITERIA POINTS: YES (Output = 0, 1, or NA)											CRITERIA POINTS: YES (Output = 0, 1, or NA)										
Channel Velocities											Channel Velocities										
Differentials											Differentials										
South Fish Ladder											South Fish Ladder										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
North Fish Ladder											North Fish Ladder										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
Collection Channels											Collection Channels										
South Shore											South Shore										
North Powerhouse											North Powerhouse										
North Shore											North Shore										
Weir Depths											Weir Depths										
SFE 1											SFE 1										
NFE 2											NFE 2										
NSE 1											NSE 1										

CRITERIA POINTS: NO (Output = 0, 1, or NA)											CRITERIA POINTS: NO (Output = 0, 1, or NA)										
Channel Velocities											Channel Velocities										
Differentials											Differentials										
South Fish Ladder											South Fish Ladder										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
North Fish Ladder											North Fish Ladder										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
Collection Channels											Collection Channels										
South Shore											South Shore										
North Powerhouse											North Powerhouse										
North Shore											North Shore										
Weir Depths											Weir Depths										
SFE 1											SFE 1										
NFE 2											NFE 2										
NSE 1											NSE 1										

CRITERIA POINTS: SILL (Output = 0, 1, or NA)											CRITERIA POINTS: SILL (Output = 0, 1, or NA)										
Weir Depths											Weir Depths										
SFE 1											SFE 1										
NFE 2											NFE 2										
NSE 1											NSE 1										

OUT OF CRITERIA SITUATIONS BY INCREMENTS - THESE SHOULD MATCH THE "NOS" ABOVE.

South Ladder Differentials (more than 0.2 too low)											South Ladder Differentials (more than 0.2 too low)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
South Ladder Differentials (0.11 - 0.2 too low)											South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
South Ladder Differentials (0.01 - 0.1 too low)											South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
South Ladder Differentials (0.01 - 0.1 too high)											South Ladder Differentials (0.01 - 0.1 too high)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
South Ladder Differentials (0.11 - 0.2 too high)											South Ladder Differentials (0.11 - 0.2 too high)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
South Ladder Differentials (more than 0.2 too high)											South Ladder Differentials (more than 0.2 too high)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
North Ladder Differentials (more than 0.2 too low)											North Ladder Differentials (more than 0.2 too low)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
North Ladder Differentials (0.11 - 0.2 too low)											North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
North Ladder Differentials (0.01 - 0.1 too low)											North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
North Ladder Differentials (0.01 - 0.1 too high)											North Ladder Differentials (0.01 - 0.1 too high)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
North Ladder Differentials (0.11 - 0.2 too high)											North Ladder Differentials (0.11 - 0.2 too high)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
North Ladder Differentials (more than 0.2 too high)											North Ladder Differentials (more than 0.2 too high)										
Ladder Exit											Ladder Exit										
Ladder Weirs											Ladder Weirs										
Counting Station											Counting Station										
Channel/Tailwater Differentials (<0.80)											Channel/Tailwater Differentials (<0.80)										
South Shore											South Shore										
North Powerhouse											North Powerhouse										
North Shore											North Shore										
Channel/Tailwater Differentials (0.80 - 0.89)											Channel/Tailwater Differentials (0.80 - 0.89)										
South Shore											South Shore										
North Powerhouse											North Powerhouse										
North Shore											North Shore										
Channel/Tailwater Differentials (0.90 - 0.99)											Channel/Tailwater Differentials (0.90 - 0.99)										
South Shore											South Shore										
North Powerhouse											North Powerhouse										
North Shore											North Shore										
Channel/Tailwater Differentials (2.01 - 2.10)											Channel/Tailwater Differentials (2.01 - 2.10)										
South Shore											South Shore										
North Powerhouse											North Powerhouse										
North Shore											North Shore										
Channel/Tailwater Differentials (2.11 - 2.20)											Channel/Tailwater Differentials (2.11 - 2.20)										
South Shore											South Shore										
North Powerhouse											North Powerhouse										
North Shore											North Shore										
Channel/Tailwater Differentials (>2.20)											Channel/Tailwater Differentials (>2.20)										
South Shore											South Shore										
North Powerhouse											North Powerhouse										
North Shore											North Shore										
Entrance Weir Depths (more than 0.2 too low)											Entrance Weir Depths (more than 0.2 too low)										
SFE 1 (<7.80)											SFE 1 (<7.80)										
NFE 2 (<7.80)											NFE 2 (<7.80)										
NSE 1 (<7.80)											NSE 1 (<7.80)										
Entrance Weir Depths (0.11 - 0.2 too low)											Entrance Weir Depths (0.11 - 0.2 too low)										
SFE 1 (7.80 - 7.89)											SFE 1 (7.80 - 7.89)										
NFE 2 (7.80 - 7.89)											NFE 2 (7.80 - 7.89)										
NSE 1 (7.80 - 7.89)											NSE 1 (7.80 - 7.89)										
Entrance Weir Depths (0.01 - 0.1 too low)											Entrance Weir Depths (0.01 - 0.1 too low)										
SFE 1 (7.90 - 7.99)											SFE 1 (7.90 - 7.99)										
NFE 2 (7.90 - 7.99)											NFE 2 (7.90 - 7.99)										
NSE 1 (7.90 - 7.99)											NSE 1 (7.90 - 7.99)										

CRITERIA POINTS: YES (Output = 0, 1, or NA)				CRITERIA POINTS: YES (Output = 0, 1, or NA)			
1	1	1	1	1	1	1	1
Channel Velocities				Channel Velocities			
Differentials				Differentials			
South Fish Ladder				South Fish Ladder			
Ladder Exit	1	1	1	Ladder Exit	1	1	1
Ladder Weirs	1	1	1	Ladder Weirs	1	1	1
Counting Station	1	1	1	Counting Station	1	1	1
North Fish Ladder				North Fish Ladder			
Ladder Exit	1	1	1	Ladder Exit	1	1	1
Ladder Weirs	1	1	1	Ladder Weirs	1	1	1
Counting Station	1	1	1	Counting Station	1	1	1
Collection Channels				Collection Channels			
South Shore	1	1	1	South Shore	1	1	1
North Powerhouse	1	1	1	North Powerhouse	1	1	1
North Shore	1	1	1	North Shore	1	1	1
Weir Depths				Weir Depths			
SFE 1	1	1	1	SFE 1	1	1	1
NFE 2	1	1	1	NFE 2	1	1	1
NSE 1	1	1	1	NSE 1	1	1	1

CRITERIA POINTS: NO (Output = 0, 1, or NA)				CRITERIA POINTS: NO (Output = 0, 1, or NA)			
0	0	0	0	0	0	0	0
Channel Velocities				Channel Velocities			
Differentials				Differentials			
South Fish Ladder				South Fish Ladder			
Ladder Exit	0	0	0	Ladder Exit	0	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	0	0	0	Counting Station	0	0	0
North Fish Ladder				North Fish Ladder			
Ladder Exit	0	0	0	Ladder Exit	0	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	0	0	0	Counting Station	0	0	0
Collection Channels				Collection Channels			
South Shore	0	0	0	South Shore	0	0	0
North Powerhouse	0	0	0	North Powerhouse	0	0	0
North Shore	0	0	0	North Shore	0	0	0
Weir Depths				Weir Depths			
SFE 1	0	0	0	SFE 1	0	0	0
NFE 2	0	0	0	NFE 2	0	0	0
NSE 1	0	0	0	NSE 1	0	0	0

CRITERIA POINTS: SILL (Output = 0, 1, or NA)				CRITERIA POINTS: SILL (Output = 0, 1, or NA)			
0	0	0	0	0	0	0	0
Weir Depths				Weir Depths			
SFE 1	0	0	0	SFE 1	0	0	0
NFE 2	0	0	0	NFE 2	0	0	0
NSE 1	1	1	1	NSE 1	1	1	1

South Ladder Differentials (more than 0.2 too low)				South Ladder Differentials (more than 0.2 too low)			
Ladder Exit	Not applicable.	0	0	Ladder Exit	Not applicable.	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	Not applicable.	0	0	Counting Station	Not applicable.	0	0
South Ladder Differentials (0.11 - 0.2 too low)				South Ladder Differentials (0.11 - 0.2 too low)			
Ladder Exit	Not applicable.	0	0	Ladder Exit	Not applicable.	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	Not applicable.	0	0	Counting Station	Not applicable.	0	0
South Ladder Differentials (0.01 - 0.1 too low)				South Ladder Differentials (0.01 - 0.1 too low)			
Ladder Exit	Not applicable.	0	0	Ladder Exit	Not applicable.	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	Not applicable.	0	0	Counting Station	Not applicable.	0	0
South Ladder Differentials (0.01 - 0.1 too high)				South Ladder Differentials (0.01 - 0.1 too high)			
Ladder Exit	0	0	0	Ladder Exit	0	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	0	0	0	Counting Station	0	0	0
South Ladder Differentials (0.11 - 0.2 too high)				South Ladder Differentials (0.11 - 0.2 too high)			
Ladder Exit	0	0	0	Ladder Exit	0	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	0	0	0	Counting Station	0	0	0
South Ladder Differentials (more than 0.2 too high)				South Ladder Differentials (more than 0.2 too high)			
Ladder Exit	0	0	0	Ladder Exit	0	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	0	0	0	Counting Station	0	0	0
North Ladder Differentials (more than 0.2 too low)				North Ladder Differentials (more than 0.2 too low)			
Ladder Exit	Not applicable.	0	0	Ladder Exit	Not applicable.	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	Not applicable.	0	0	Counting Station	Not applicable.	0	0
North Ladder Differentials (0.11 - 0.2 too low)				North Ladder Differentials (0.11 - 0.2 too low)			
Ladder Exit	Not applicable.	0	0	Ladder Exit	Not applicable.	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	Not applicable.	0	0	Counting Station	Not applicable.	0	0
North Ladder Differentials (0.01 - 0.1 too low)				North Ladder Differentials (0.01 - 0.1 too low)			
Ladder Exit	Not applicable.	0	0	Ladder Exit	Not applicable.	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	Not applicable.	0	0	Counting Station	Not applicable.	0	0
North Ladder Differentials (0.01 - 0.1 too high)				North Ladder Differentials (0.01 - 0.1 too high)			
Ladder Exit	0	0	0	Ladder Exit	0	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	0	0	0	Counting Station	0	0	0
North Ladder Differentials (0.11 - 0.2 too high)				North Ladder Differentials (0.11 - 0.2 too high)			
Ladder Exit	0	0	0	Ladder Exit	0	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	0	0	0	Counting Station	0	0	0
North Ladder Differentials (more than 0.2 too high)				North Ladder Differentials (more than 0.2 too high)			
Ladder Exit	0	0	0	Ladder Exit	0	0	0
Ladder Weirs	0	0	0	Ladder Weirs	0	0	0
Counting Station	0	0	0	Counting Station	0	0	0
Channel/Tailwater Differentials (<0.80)				Channel/Tailwater Differentials (<0.80)			
South Shore	0	0	0	South Shore	0	0	0
North Powerhouse	0	0	0	North Powerhouse	0	0	0
North Shore	0	0	0	North Shore	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)				Channel/Tailwater Differentials (0.80 - 0.89)			
South Shore	0	0	0	South Shore	0	0	0
North Powerhouse	1	0	0	North Powerhouse	0	0	0
North Shore	0	0	0	North Shore	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):				Channel/Tailwater Differentials (0.90 - 0.99):			
South Shore	0	0	0	South Shore	0	0	0
North Powerhouse	0	0	0	North Powerhouse	0	0	0
North Shore	0	0	0	North Shore	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)				Channel/Tailwater Differentials (2.01 - 2.10)			
South Shore	0	0	0	South Shore	0	0	0
North Powerhouse	0	0	0	North Powerhouse	0	0	0
North Shore	0	1	0	North Shore	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)				Channel/Tailwater Differentials (2.11 - 2.20)			
South Shore	0	0	0	South Shore	0	0	0
North Powerhouse	0	0	0	North Powerhouse	0	0	0
North Shore	0	0	0	North Shore	0	0	0
Channel/Tailwater Differentials (>=2.20)				Channel/Tailwater Differentials (>=2.20)			
South Shore	0	0	0	South Shore	0	0	0
North Powerhouse	0	0	0	North Powerhouse	0	0	0
North Shore	0	0	1	North Shore	0	0	0
Entrance Weir Depths (more than 0.2 too low)				Entrance Weir Depths (more than 0.2 too low)			
SFE 1 (<7.80)	0	0	0	SFE 1 (<7.80)	0	0	0
NFE 2 (<7.80)	0	0	0	NFE 2 (<7.80)	0	0	0
NSE 1 (<7.80)	0	0	0	NSE 1 (<7.80)	0	0	0
Entrance Weir Depths (0.11 - 0.2 too low)				Entrance Weir Depths (0.11 - 0.2 too low)			
SFE 1 (7.80 - 7.89)	0	0	0	SFE 1 (7.80 - 7.89)	0	0	0
NFE 2 (7.80 - 7.89)	0	0	0	NFE 2 (7.80 - 7.89)	0	0	0
NSE 1 (7.80 - 7.89)	0	0	0	NSE 1 (7.80 - 7.89)	0	0	0
Entrance Weir Depths (0.01 - 0.1 too low)				Entrance Weir Depths (0.01 - 0.1 too low)			
SFE 1 (7.90 - 7.99)	0	0	0	SFE 1 (7.90 - 7.99)	0	0	0
NFE 2 (7.90 - 7.99)	0	0	0	NFE 2 (7.90 - 7.99)	0	0	0
NSE 1 (7.90 - 7.99)	0	0	0	NSE 1 (7.90 - 7.99)	0	0	0

CRITERIA POINTS: YES (Output = 0, 1, or NA)																			
1	1	1	1	1	1	1	1	1	1	Channel Velocities	1	1	1	1	1	1	1	1	1
Differentials										Ladder Exit	1	1	1	1	1	1	1	1	1
South Fish Ladder										Ladder Weirs	1	1	1	1	1	1	1	1	1
Counting Station										Counting Station	1	1	1	1	1	1	1	1	0
North Fish Ladder										Ladder Exit	1	1	1	1	1	1	1	1	1
Ladder Weirs										Ladder Weirs	1	1	1	1	1	1	1	1	1
Counting Station										Counting Station	1	1	1	1	1	1	1	1	1
Collection Channels										South Shore	1	1	1	1	1	1	1	1	1
North Powerhouse										North Powerhouse	1	1	1	1	1	0	0	1	1
North Shore										North Shore	0	1	1	0	1	0	0	1	0
Weir Depths										SFE 1	0	0	0	0	0	0	1	0	0
NFE 2										NFE 2	0	0	0	0	0	0	1	0	0
NSE 1										NSE 1	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: NO (Output = 0, 1, or NA)																			
0	0	0	0	0	0	0	0	0	0	Channel Velocities	0	0	0	0	0	0	0	0	0
Differentials										Ladder Exit	0	0	0	0	0	0	0	0	0
South Fish Ladder										Ladder Weirs	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	0	0	0	0	0	0	0	0	1
North Fish Ladder										Ladder Exit	0	0	0	0	0	0	0	0	0
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	0	0	0	0	0	0	0	0	0
Collection Channels										South Shore	0	0	0	0	0	0	0	0	0
North Powerhouse										North Powerhouse	0	0	0	0	0	0	1	1	0
North Shore										North Shore	1	0	0	1	0	1	1	0	1
Weir Depths										SFE 1	0	0	0	0	0	0	0	0	0
NFE 2										NFE 2	0	0	0	0	0	0	0	1	0
NSE 1										NSE 1	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL (Output = 0, 1, or NA)																			
0	0	0	0	1	0	1	1	1	1	Weir Depths	1	1	1	1	1	1	0	1	1
0	0	0	0	1	0	1	0	1	0	SFE 1	1	1	1	1	1	1	1	0	1
0	1	1	0	1	1	1	1	1	1	NFE 2	1	1	1	1	1	1	1	0	1
										NSE 1	1	1	1	1	1	1	1	1	1

South Ladder Differentials (more than 0.2 too low)										Ladder Exit	Not applicable.									
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	Not applicable.									
South Ladder Differentials (0.11 - 0.2 too low)										Ladder Exit	Not applicable.									
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	Not applicable.									
South Ladder Differentials (0.01 - 0.1 too low)										Ladder Exit	Not applicable.									
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	Not applicable.									
South Ladder Differentials (0.01 - 0.1 too high)										Ladder Exit	0	0	0	0	0	0	0	0	0	0
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (0.11 - 0.2 too high)										Ladder Exit	0	0	0	0	0	0	0	0	0	0
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too high)										Ladder Exit	0	0	0	0	0	0	0	0	0	0
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	0	0	0	0	0	0	0	0	0	1
North Ladder Differentials (more than 0.2 too low)										Ladder Exit	Not applicable.									
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	Not applicable.									
North Ladder Differentials (0.11 - 0.2 too low)										Ladder Exit	Not applicable.									
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	Not applicable.									
North Ladder Differentials (0.01 - 0.1 too low)										Ladder Exit	Not applicable.									
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	0	0	0	0	0	0	0	0	0	0
North Ladder Differentials (0.01 - 0.1 too high)										Ladder Exit	0	0	0	0	0	0	0	0	0	0
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	0	0	0	0	0	0	0	0	0	0
North Ladder Differentials (0.11 - 0.2 too high)										Ladder Exit	0	0	0	0	0	0	0	0	0	0
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	0	0	0	0	0	0	0	0	0	0
North Ladder Differentials (more than 0.2 too high)										Ladder Exit	0	0	0	0	0	0	0	0	0	0
Ladder Weirs										Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										South Shore	0	0	0	0	0	0	0	0	0	0
North Powerhouse										North Powerhouse	0	0	0	0	0	0	0	0	0	0
North Shore										North Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										South Shore	0	0	0	0	0	0	0	0	0	0
North Powerhouse										North Powerhouse	0	0	0	0	0	0	0	0	0	0
North Shore										North Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										South Shore	0	0	0	0	0	0	0	0	0	0
North Powerhouse										North Powerhouse	0	0	0	0	0	0	1	1	0	0
North Shore										North Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										South Shore	0	0	0	0	0	0	0	0	0	0
North Powerhouse										North Powerhouse	0	0	0	0	0	0	0	0	0	0
North Shore										North Shore	0	0	0	1	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										South Shore	0	0	0	0	0	0	0	0	0	0
North Powerhouse										North Powerhouse	0	0	0	0	0	0	0	0	0	0
North Shore										North Shore	0	0	0	0	0	1	0	0	0	0
Channel/Tailwater Differentials (>2.20)										South Shore	0	0	0	0	0	0	0	0	0	0
North Powerhouse										North Powerhouse	0	0	0	0	0	0	0	0	0	0
North Shore										North Shore	1	0	0	0	0	1	0	0	1	0
Entrance Weir Depths (more than 0.2 too low)										SFE 1 (<7.80)	0	0	0	0	0	0	0	0	0	0
NFE 2 (<7.80)										NFE 2 (<7.80)	0	0	0	0	0	0	0	1	0	0
NSE 1 (<7.80)										NSE 1 (<7.80)	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (0.11 - 0.2 too low)										SFE 1 (7.80 - 7.89)	0	0	0	0	0	0	0	0	0	0
NFE 2 (7.80 - 7.89)										NFE 2 (7.80 - 7.89)	0	0	0	0	0	0	0	0	0	0
NSE 1 (7.80 - 7.89)										NSE 1 (7.80 - 7.89)	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (0.01 - 0.1 too low)										SFE 1 (7.90 - 7.99)	0	0	0	0	0	0	0	0	0	0
NFE 2 (7.90 - 7.99)										NFE 2 (7.90 - 7.99)	0	0	0	0	0	0	0	0	0	0
NSE 1 (7.90 - 7.99)										NSE 1 (7.90 - 7.99)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: YES (Output = 0, 1, or NA)										
1	1	Channel Velocities	1	1	1	1	1	1	1	1
Differentials										
South Fish Ladder										
1	1	Ladder Exit	1	1	1	1	1	1	1	1
1	1	Ladder Weirs	1	1	1	1	1	1	1	1
1	1	Counting Station	1	1	1	1	1	1	1	1
North Fish Ladder										
1	1	Ladder Exit	1	1	1	1	1	1	1	1
1	1	Ladder Weirs	1	1	1	1	1	1	1	1
1	1	Counting Station	1	1	1	1	1	1	1	1
Collection Channels										
1	1	South Shore	1	1	1	1	1	1	1	1
1	1	North Powerhouse	1	1	1	1	1	1	1	1
1	1	North Shore	1	1	1	1	1	1	1	1
Weir Depths										
1	0	SFE 1	0	0	0	0	0	0	1	1
1	0	NFE 2	0	0	0	0	0	0	1	1
0	0	NSE 1	0	0	0	0	0	0	1	1

CRITERIA POINTS: NO (Output = 0, 1, or NA)										
0	0	Channel Velocities	0	0	0	0	0	0	0	0
Differentials										
South Fish Ladder										
0	0	Ladder Exit	0	0	0	0	0	0	0	0
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	0	0	0	0	0	0	0	0
North Fish Ladder										
0	0	Ladder Exit	0	0	0	0	0	0	0	0
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	0	0	0	0	0	0	0	0
Collection Channels										
0	0	South Shore	0	0	0	0	0	0	0	0
0	0	North Powerhouse	0	0	0	0	0	0	0	0
0	0	North Shore	0	0	0	0	0	0	0	0
Weir Depths										
0	0	SFE 1	0	0	0	0	0	0	0	0
0	0	NFE 2	0	0	0	0	0	0	0	0
0	0	NSE 1	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL (Output = 0, 1, or NA)										
0	1	Weir Depths	1	1	1	1	1	1	0	0
0	1	SFE 1	1	1	1	1	1	1	0	0
1	1	NSE 1	1	1	1	1	1	1	0	0

South Ladder Differentials (more than 0.2 too low)										
0	0	Ladder Exit	Not applicable.							
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	Not applicable.							
South Ladder Differentials (0.11 - 0.2 too low)										
0	0	Ladder Exit	Not applicable.							
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	Not applicable.							
South Ladder Differentials (0.01 - 0.1 too low)										
0	0	Ladder Exit	Not applicable.							
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	Not applicable.							
South Ladder Differentials (0.01 - 0.1 too high)										
0	0	Ladder Exit	0	0	0	0	0	0	0	0
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	0	0	0	0	0	0	0	0
South Ladder Differentials (0.11 - 0.2 too high)										
0	0	Ladder Exit	0	0	0	0	0	0	0	0
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too high)										
0	0	Ladder Exit	0	0	0	0	0	0	0	0
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	0	0	0	0	0	0	0	0
North Ladder Differentials (more than 0.2 too low)										
0	0	Ladder Exit	Not applicable.							
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	Not applicable.							
North Ladder Differentials (0.11 - 0.2 too low)										
0	0	Ladder Exit	Not applicable.							
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	Not applicable.							
North Ladder Differentials (0.01 - 0.1 too low)										
0	0	Ladder Exit	Not applicable.							
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	Not applicable.							
North Ladder Differentials (0.01 - 0.1 too high)										
0	0	Ladder Exit	0	0	0	0	0	0	0	0
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	0	0	0	0	0	0	0	0
North Ladder Differentials (0.11 - 0.2 too high)										
0	0	Ladder Exit	0	0	0	0	0	0	0	0
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	0	0	0	0	0	0	0	0
North Ladder Differentials (more than 0.2 too high)										
0	0	Ladder Exit	0	0	0	0	0	0	0	0
0	0	Ladder Weirs	0	0	0	0	0	0	0	0
0	0	Counting Station	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
0	0	South Shore	0	0	0	0	0	0	0	0
0	0	North Powerhouse	0	0	0	0	0	0	0	0
0	0	North Shore	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
0	0	South Shore	0	0	0	0	0	0	0	0
0	0	North Powerhouse	0	0	0	0	0	0	0	0
0	0	North Shore	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
0	0	South Shore	0	0	0	0	0	0	0	0
0	0	North Powerhouse	0	0	0	0	0	0	0	0
0	0	North Shore	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
0	0	South Shore	0	0	0	0	0	0	0	0
0	0	North Powerhouse	0	0	0	0	0	0	0	0
0	0	North Shore	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
0	0	South Shore	0	0	0	0	0	0	0	0
0	0	North Powerhouse	0	0	0	0	0	0	0	0
0	0	North Shore	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
0	0	South Shore	0	0	0	0	0	0	0	0
0	0	North Powerhouse	0	0	0	0	0	0	0	0
0	0	North Shore	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
0	0	SFE 1 (<7.80)	0	0	0	0	0	0	0	0
0	0	NFE 2 (<7.80)	0	0	0	0	0	0	0	0
0	0	NSE 1 (<7.80)	0	0	0	0	0	0	0	0
Entrance Weir Depths (0.11 - 0.2 too low)										
0	0	SFE 1 (7.80 - 7.89)	0	0	0	0	0	0	0	0
0	0	NFE 2 (7.80 - 7.89)	0	0	0	0	0	0	0	0
0	0	NSE 1 (7.80 - 7.89)	0	0	0	0	0	0	0	0
Entrance Weir Depths (0.01 - 0.1 too low)										
0	0	SFE 1 (7.90 - 7.99)	0	0	0	0	0	0	0	0
0	0	NFE 2 (7.90 - 7.99)	0	0	0	0	0	0	0	0
0	0	NSE 1 (7.90 - 7.99)	0	0	0	0	0	0	0	0

CRITERIA POINTS: YES (Output = 0, 1, or NA)												
Channel Velocities	1	1	1	1	1	1	1	1	1	1	1	1
Differentials												
South Fish Ladder												
Ladder Exit	1	1	1	1	1	1	1	1	1	1	1	1
Ladder Weirs	1	1	1	1	1	1	1	1	1	1	1	1
Counting Station	0	1	1	1	1	1	1	1	1	1	1	1
North Fish Ladder												
Ladder Exit	1	1	1	1	1	1	1	1	1	1	1	1
Ladder Weirs	1	1	1	1	1	1	1	1	1	1	1	1
Counting Station	1	1	1	1	1	1	1	1	1	1	1	1
Collection Channels												
South Shore	1	1	0	1	1	1	1	1	0	0	0	0
North Powerhouse	1	1	1	1	1	1	1	1	1	1	1	1
North Shore	1	1	1	1	1	1	1	1	1	1	1	1
Weir Depths												
SFE 1	1	1	0	1	0	1	0	0	0	0	0	0
NFE 2	1	1	0	1	0	1	0	0	0	0	0	0
NSE 1	1	1	1	1	0	1	0	0	0	0	0	0

CRITERIA POINTS: NO (Output = 0, 1, or NA)												
Channel Velocities	0	0	0	0	0	0	0	0	0	0	0	0
Differentials												
South Fish Ladder												
Ladder Exit	0	0	0	0	0	0	0	0	0	0	0	0
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	1	0	0	0	0	0	0	0	0	0	0	0
North Fish Ladder												
Ladder Exit	0	0	0	0	0	0	0	0	0	0	0	0
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0	0	0
Collection Channels												
South Shore	0	0	1	0	0	0	0	0	1	1	1	1
North Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0
North Shore	0	0	0	0	0	0	0	0	0	0	0	0
Weir Depths												
SFE 1	0	0	0	0	0	0	0	0	0	0	0	0
NFE 2	0	0	0	0	0	0	0	0	0	0	0	0
NSE 1	0	0	0	0	1	0	0	0	0	0	0	0

CRITERIA POINTS: SILL (Output = 0, 1, or NA)												
Weir Depths												
SFE 1	0	0	1	0	1	0	1	1	1	1	1	1
NFE 2	0	0	1	0	1	0	1	1	1	1	1	1
NSE 1	0	0	0	0	0	0	1	1	1	1	1	1

South Ladder Differentials (more than 0.2 too low)												
Ladder Exit	Not applicable.											
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.											
South Ladder Differentials (0.11 - 0.2 too low)												
Ladder Exit	Not applicable.											
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.											
South Ladder Differentials (0.01 - 0.1 too low)												
Ladder Exit	Not applicable.											
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.											
South Ladder Differentials (0.01 - 0.1 too high)												
Ladder Exit	0	0	0	0	0	0	0	0	0	0	0	0
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (0.11 - 0.2 too high)												
Ladder Exit	0	0	0	0	0	0	0	0	0	0	0	0
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too high)												
Ladder Exit	0	0	0	0	0	0	0	0	0	0	0	0
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	1	0	0	0	0	0	0	0	0	0	0	0
North Ladder Differentials (more than 0.2 too low)												
Ladder Exit	Not applicable.											
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.											
North Ladder Differentials (0.11 - 0.2 too low)												
Ladder Exit	Not applicable.											
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.											
North Ladder Differentials (0.01 - 0.1 too low)												
Ladder Exit	Not applicable.											
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.											
North Ladder Differentials (0.01 - 0.1 too high)												
Ladder Exit	0	0	0	0	0	0	0	0	0	0	0	0
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0	0	0
North Ladder Differentials (0.11 - 0.2 too high)												
Ladder Exit	0	0	0	0	0	0	0	0	0	0	0	0
Ladder Weirs	0	0	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)												
South Shore	0	0	0	0	0	0	0	0	0	0	0	0
North Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0
North Shore	0	0	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)												
South Shore	0	0	0	0	0	0	0	0	0	0	0	0
North Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0
North Shore	0	0	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):												
South Shore	0	0	0	0	0	0	0	0	0	0	0	0
North Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0
North Shore	0	0	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)												
South Shore	0	0	1	0	0	0	0	0	0	0	0	0
North Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0
North Shore	0	0	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)												
South Shore	0	0	0	0	0	0	0	0	0	1	0	0
North Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0
North Shore	0	0	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)												
South Shore	0	0	0	0	0	0	0	0	1	0	1	1
North Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0
North Shore	0	0	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)												
SFE 1 (<7.80)	0	0	0	0	0	0	0	0	0	0	0	0
NFE 2 (<7.80)	0	0	0	0	0	0	0	0	0	0	0	0
NSE 1 (<7.80)	0	0	0	0	1	0	0	0	0	0	0	0
Entrance Weir Depths (0.11 - 0.2 too low)												
SFE 1 (7.80 - 7.89)	0	0	0	0	0	0	0	0	0	0	0	0
NFE 2 (7.80 - 7.89)	0	0	0	0	0	0	0	0	0	0	0	0
NSE 1 (7.80 - 7.89)	0	0	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (0.01 - 0.1 too low)												
SFE 1 (7.90 - 7.99)	0	0	0	0	0	0	0	0	0	0	0	0
NFE 2 (7.90 - 7.99)	0	0	0	0	0	0	0	0	0	0	0	0
NSE 1 (7.90 - 7.99)	0	0	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: YES (Output = 0, 1, or NA)										CRITERIA POINTS: YES (Output = 0, 1, or NA)									
Channel Velocities										Channel Velocities									
Differentials										Differentials									
South Fish Ladder										South Fish Ladder									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
North Fish Ladder										North Fish Ladder									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
Collection Channels										Collection Channels									
South Shore										South Shore									
North Powerhouse										North Powerhouse									
North Shore										North Shore									
Weir Depths										Weir Depths									
SFE 1										SFE 1									
NFE 2										NFE 2									
NSE 1										NSE 1									

CRITERIA POINTS: NO (Output = 0, 1, or NA)										CRITERIA POINTS: NO (Output = 0, 1, or NA)									
Channel Velocities										Channel Velocities									
Differentials										Differentials									
South Fish Ladder										South Fish Ladder									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
North Fish Ladder										North Fish Ladder									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
Collection Channels										Collection Channels									
South Shore										South Shore									
North Powerhouse										North Powerhouse									
North Shore										North Shore									
Weir Depths										Weir Depths									
SFE 1										SFE 1									
NFE 2										NFE 2									
NSE 1										NSE 1									

CRITERIA POINTS: SILL (Output = 0, 1, or NA)										CRITERIA POINTS: SILL (Output = 0, 1, or NA)									
Weir Depths										Weir Depths									
SFE 1										SFE 1									
NFE 2										NFE 2									
NSE 1										NSE 1									

South Ladder Differentials (more than 0.2 too low)										South Ladder Differentials (more than 0.2 too low)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
South Ladder Differentials (0.11 - 0.2 too low)										South Ladder Differentials (0.11 - 0.2 too low)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
South Ladder Differentials (0.01 - 0.1 too low)										South Ladder Differentials (0.01 - 0.1 too low)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
South Ladder Differentials (0.01 - 0.1 too high)										South Ladder Differentials (0.01 - 0.1 too high)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
South Ladder Differentials (0.11 - 0.2 too high)										South Ladder Differentials (0.11 - 0.2 too high)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
South Ladder Differentials (more than 0.2 too high)										South Ladder Differentials (more than 0.2 too high)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
North Ladder Differentials (more than 0.2 too low)										North Ladder Differentials (more than 0.2 too low)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
North Ladder Differentials (0.11 - 0.2 too low)										North Ladder Differentials (0.11 - 0.2 too low)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
North Ladder Differentials (0.01 - 0.1 too low)										North Ladder Differentials (0.01 - 0.1 too low)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
North Ladder Differentials (0.01 - 0.1 too high)										North Ladder Differentials (0.01 - 0.1 too high)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
North Ladder Differentials (0.11 - 0.2 too high)										North Ladder Differentials (0.11 - 0.2 too high)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
North Ladder Differentials (more than 0.2 too high)										North Ladder Differentials (more than 0.2 too high)									
Ladder Exit										Ladder Exit									
Ladder Weirs										Ladder Weirs									
Counting Station										Counting Station									
Channel/Tailwater Differentials (<0.80)										Channel/Tailwater Differentials (<0.80)									
South Shore										South Shore									
North Powerhouse										North Powerhouse									
North Shore										North Shore									
Channel/Tailwater Differentials (0.80 - 0.89)										Channel/Tailwater Differentials (0.80 - 0.89)									
South Shore										South Shore									
North Powerhouse										North Powerhouse									
North Shore										North Shore									
Channel/Tailwater Differentials (0.90 - 0.99)										Channel/Tailwater Differentials (0.90 - 0.99)									
South Shore										South Shore									
North Powerhouse										North Powerhouse									
North Shore										North Shore									
Channel/Tailwater Differentials (2.01 - 2.10)										Channel/Tailwater Differentials (2.01 - 2.10)									
South Shore										South Shore									
North Powerhouse										North Powerhouse									
North Shore										North Shore									
Channel/Tailwater Differentials (2.11 - 2.20)										Channel/Tailwater Differentials (2.11 - 2.20)									
South Shore										South Shore									
North Powerhouse										North Powerhouse									
North Shore										North Shore									
Channel/Tailwater Differentials (>2.20)										Channel/Tailwater Differentials (>2.20)									
South Shore										South Shore									
North Powerhouse										North Powerhouse									
North Shore										North Shore									
Entrance Weir Depths (more than 0.2 too low)										Entrance Weir Depths (more than 0.2 too low)									
SFE 1 (<7.80)										SFE 1 (<7.80)									
NFE 2 (<7.80)										NFE 2 (<7.80)									
NSE 1 (<7.80)										NSE 1 (<7.80)									
Entrance Weir Depths (0.11 - 0.2 too low)										Entrance Weir Depths (0.11 - 0.2 too low)									
SFE 1 (7.80 - 7.89)										SFE 1 (7.80 - 7.89)									
NFE 2 (7.80 - 7.89)										NFE 2 (7.80 - 7.89)									
NSE 1 (7.80 - 7.89)										NSE 1 (7.80 - 7.89)									
Entrance Weir Depths (0.01 - 0.1 too low)										Entrance Weir Depths (0.01 - 0.1 too low)									
SFE 1 (7.90 - 7.99)										SFE 1 (7.90 - 7.99)									
NFE 2 (7.90 - 7.99)										NFE 2 (7.90 - 7.99)									
NSE 1 (7.90 - 7.99)										NSE 1 (7.90 - 7.99)									

Columns in Table	This table automatically calculates all results. Just copy the data (only) into the Word file table.								Rows in Table
	2	3	4	5	6	7	8	9	
ICE HARBOR	-----Not Enough Depth-----				-----Too Much Depth-----				
Criteria and Locations	No. in Criteria/ No. on Sill/ No. of Inspections	% In Criteria/ % On Sill	No./% Within 0.01-0.1 Foot	No./% Within 0.11-0.2 Foot	No./% >0.2 Foot	No./% Within 0.01-0.1 Foot	No./% Within 0.11-0.2 Foot	No./% >0.2 Foot	
Channel Velocities	126	97.7	***	***	***	***	***	***	1
	***	***	***	***	***	***	***	***	2
	129								3
Differentials									4
South Fish Ladder									5
Ladder Exit	132	100.0	***	***	***	0	0	0	6
	***	***	***	***	***	0.0	0.0	0.0	7
Ladder Weirs	132	100.0	0	0	0	0	0	0	8
	***	***	0.0	0.0	0.0	0.0	0.0	0.0	9
Counting Station	132								10
	128	98.5	***	***	***	0	0	2	11
	***	***	***	***	***	0.0	0.0	1.5	12
	130								13
North Fish Ladder									14
Ladder Exit	133	100.0	***	***	***	0	0	0	15
	***	***	***	***	***	0.0	0.0	0.0	16
Ladder Weirs	132	99.2	0	0	1	0	0	0	17
	***	***	0.0	0.0	0.8	0.0	0.0	0.0	18
Counting Station	133								19
	132	100.0	***	***	***	0	0	0	20
	***	***	***	***	***	0.0	0.0	0.0	21
Collection Channels									22
South Shore	121	91.7	0	0	1	1	4	5	23
	***	***	0.0	0.0	0.8	0.8	3.0	3.8	24
North Powerhouse	132								25
	128	97.0	2	1	0	0	1	0	26
	***	***	1.5	0.8	0.0	0.0	0.8	0.0	27
North Shore	132								28
	121	91.0	1	1	1	2	2	5	29
	***	***	0.8	0.8	0.8	1.5	1.5	3.8	30
	133								31
Weir Depths									32
SFE 1	69	52.3	0	0	0	***	***	***	33
	63	47.7	0.0	0.0	0.0	***	***	***	34
NFE 2	132								35
	67	50.8	0	0	4	***	***	***	36
	61	46.2	0.0	0.0	3.0	***	***	***	37
NSE 1	132								38
	45	33.8	0	0	4	***	***	***	39
	84	63.2	0.0	0.0	3.0	***	***	***	40
	133								41

BE SURE OF NUMBER OF INSPECTIONS IS CORRECTLY CALCULATING. CHECK HC COLUMN