ADULT AND JUVENILE FISH FACILITY MONITORING REPORT

LOWER MONUMENTAL DAM

2014

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Enclosure

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INTRODUCTION

The following report on fishway activities at Lower Monumental Dam is required under the Endangered Species Act consultation on the operation of the Federal Columbia River Power System and its associated fish passage facilities. This report summarizes the operation and maintenance of adult fish passage facilities at Lower Monumental Dam, including the results of visual inspections of fishways conducted by fisheries staff during the adult fish passage period of March 1 to December 31, 2014. Inspection readings are provided in Appendix 1. Recommendations are provided for correcting problems found. This report also contains a synopsis of juvenile fish facility operations. Additional information on juvenile fish collection and transportation activities at Lower Monumental Dam can be found in the, "2014 Juvenile Fish Collection and Bypass Report, Lower Monumental Juvenile Fish Facility".

River Conditions

During the 2014 season, the average daily flow exceeded 100.0 kcfs on 22 days and did not exceed 150 kcfs. The highest daily average flow for the season was 143.3 kcfs on May 25. The lowest daily average flow for the season occurred on September 26 with a flow of 12.1 kcfs. The average flow for the season was 58.6 kcfs. Spill occurred for 152 days from April 3 through midnight on August 31, with a maximum daily average spill of 37.8 on May 28. The RSW was put into operation when BiOp spill began on April 3, and was taken out of service for the season on August 31. River temperature averaged 60.8^{o} F for the season and ranged from 46.1^{o} F in early April, to 70.5^{o} F in mid August

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ADULT FISH FACILITY

Facility Description

The adult fishways at Lower Monumental are comprised of north and south shore fish ladders. The upper ladders extend from the forebay to tailwater and include ladder exits, slotted weirs, upper diffusers, overflow weirs with orifices, and fish counting stations with picketed leads. The lower ladders contain collection channels, channel diffusers, and ladder entrances. The north shore lower fish ladder has two north shore entrances (NSE-1 and NSE-2) and two south powerhouse entrances (SPE-1 and SPE-2). The south shore lower fish ladder has two entrances (SSE-1 and SSE-2). Auxiliary water is supplied by three turbine-driven pumps (fish pumps) located in the north side of the powerhouse. The water is pumped into a supply conduit that extends under the north and south shore lower ladders, distributing water to the lower ladder diffusers. Excess water from the juvenile fish bypass system (approximately 180-200 cfs) additionally contributes to the auxiliary water supply during the juvenile fish bypass/collection season.

Facility Modifications

PIT tag detectors were installed in the count station slots of the north and south shore fish ladders. Wiring to the JFF PIT tag data network is scheduled for March 2015

Operations and Maintenance

Fish Ladders and Collection Channels

The adult fishways were in service throughout 2014 with the exception of the winter maintenance season. Inspection and maintenance on the north and south shore fishways occurred from January 6 to January 27 and February 4 to February 28, respectively.

The upper fish ladders are dewatered annually for maintenance activities including: debris removal, diffuser grate and structural support inspections, picketed lead, staff gauge, and fish counting window cleaning, maintenance of count station window cleaning mechanisms, and packing of leaks in expansion joints. A minimum of twenty four hours prior to dewatering, the auxiliary water is shut off to discourage newly arriving fish from starting up the ladders. The fish exit is then bulkheaded off, any exit pool fish are removed and released to the forebay, and the upper ladders are partially dewatered leaving about 4 inches running through ladder weir orifices. This flow is maintained to move any remaining fish to tailwater. Approximately a day later, the flow is reduced to two inches and maintenance personnel go down the ladder through the orifices to remove debris, move remaining fish to tailwater, and inspect the full length of the channel. One unclipped juvenile steelhead was salvaged from the north shore ladder exit. All diffuser grating clasps were inspected and replaced as needed.

The lower ladders are typically dewatered to a depth of one foot providing a holding pool for fish. Once the target depth is obtained, maintenance personnel and biologists inspect entrance weirs, diffuser grates and exposed diffuser gate operating equipment. Staff gauges are then cleaned and debris is removed. The north shore water was lowered to $4/10^{th}$ of a foot for visual inspection of grating. When dewatering for repair is necessary; fish are crowded to the entrance pools, netted, and placed in a 600 gallon container (or 32 gallon containers if fish numbers are very low). The large container is manipulated with the crane to release fish to tailwater and refill the tank if needed. Fish salvage was required in the lower ladders this year to accommodate engineer inspection for planning of diffuser grate replacement. No problems were observed during the inspection of the lower south shore channel. Replacement of diffuser grates and clasps has been an issue for years and will be addressed when engineering design and funding for replacement is available.

Auxiliary Water Supply

Fish pumps 1, 2, and 3 were out of service (OOS) from January 1 to February 27 for annual maintenance. Annual maintenance consists of changing oil in pedestals, adjusting or replacing packing and shaft seals, inspecting and cleaning heat exchangers, inspecting and replacing broken shear pins on the wicket gates, adjusting brakes, removing trash and debris from the fish pump turbine, and a general mechanical and electrical inspection. AWS pump 2 was out of service from March 20 to April 1, to remove a large sturgeon. The more significant pump outages are summarized in Table 1.

Table 1. Fish pump outages at Lower Monumental Dam, 2014

Affected Pump(s)	Dates	Reason for Outage/Comments
1, 2, 3	Jan 1 – Feb 27	Annual maintenance
1, 2, 3	October 18	Rotated OOS for quarterly maintenance inspection
2	Mar 20 – April 1	Remove 7-8 foot sturgeon from pump
3	June 9	Replace broken shear pin

Adult Fishway Inspections

Methods

The automated fishway control system consists of a computer in the control room that interfaces with process level controllers and receives information from remote terminal units. The terminal units are fed by sensors detecting entrance weir gate positions, collection channel water and tailwater elevations, upper diffuser pool levels, and water temperatures within the fishways. The automated fishway control system is based on a GE Fanuc Series 90 control program. The computer is used to change the control parameters of the terminal units and provides datum acquisition and storage. The remote terminal units control the fishway entrance weir gates according to set points that either regulate the gate depths below tailwater or channel to tailwater entrance head differentials. The computer printout contains the following information: dates; times (hour, minute, and second); channel temperatures; channel and tailwater elevations (feet above mean sea level) for the north shore, south powerhouse, and south shore; gate elevations; gate depths; entrance heads; and set points for the gate depths and entrance heads. The automated fishway control system was out of service throughout the 2014 operating year. System part replacement and a spare programmed PLC are planned to be available and operating at the start of the 2015 operating season.

Operating criteria involve normal and special operating conditions. Under normal operating conditions, NSE-1, NSE-2, SPE-1, SPE-2, and SSE-1 weir gates are operated to meet criteria of at least 8 foot depths (depth criteria) or be on sill if less than 8 foot depths (sill criteria). SSE-2 weir gate is operated with a 6-foot opening. Normal operating criteria for the rest of the ladder include maximums of 0.5 foot heads at the exits, maximums of 0.4 foot and 0.3 foot heads at the north and south shore picketed leads, respectively, 1.0-1.3 feet of water over the ladder weirs, 1.5-4.0 feet per second collection channel velocity, and 1.0-2.0 foot head differentials at all fishway entrances. Special operating conditions are used if normal operating criteria cannot be met. When only two fish pumps are operational, SSE-2 and SPE-2 may be closed and SPE-1 raised to provide 1.0-2.0 feet of entrance head differentials. This special operation was not required to maintain depth criteria this season.

Adult fishway inspections consist of observing facility operating conditions and recording visual readings from staff gauges, weir gate selsyns, and electronic meters. Wave action and large debris impacts have consistently resulted in loss of the south ladder tailwater staff gauge. Readings of the lower south ladder and tailwater are therefore taken from an electronic panel in the service gallery.

Inspections by fisheries staff and QC personnel are normally conducted three or more times per reporting week with times randomized, and day rarely randomized. An average of 3.75 inspections per week were performed (165 inspections /44 weeks) in 2014. Depths and head differentials that were out of criteria, as well as other problems, were reported to powerhouse

shift operators and/or maintenance staff for correction. Powerhouse operators conduct shift inspections in addition to the inspections performed by fisheries staff.

Inspection Results

Visual readings are normally recorded and compared with automated control system readings to check for calibration problems. This was not possible in 2014 due to failure of the automated system. Data from fishway inspections was entered into an Excel spreadsheet (Appendix 1). The average compliance of all criteria points in 2014 was 96.7%. A summary of fish ladder performance and variability is provided in Table 2.

Ladder exits: North shore ladder exit head differentials were in criteria on 98.9% of the inspections. The three out of criteria reading of 0.8' and 0.7' and 1.4 feet occurred on March 1, 2, and 3 due to debris on ladder exit trash rack. South shore ladder exit head differentials were in criteria on 100% of the inspections. North and south shore exits were operated without debris booms again this season. Changing designs of debris booms which will be able to withstand high winds and wave action has delayed debris boom replacement.

Ladder weirs: The depths over the weirs of the north shore ladder were within criteria on 100% of the inspections.

Depths over the weirs of the south shore ladder were within criteria on 100% of inspections.

Counting stations: The head differential across the north shore counting station picketed leads was in criteria on 98.9% of inspections. The two out of criteria readings of 0.9' feet and 0.8 feet were due to leaves accumulating on the lower picketed leads following high winds. The south shore counting station met criteria on 100% of inspections.

Entrance heads: North shore entrance head differential was in criteria on 94.5% of inspections. Failure of the automated control system caused criteria breaches.

South powerhouse entrance head was in criteria on 87.3% of inspections. Failure of the automated control system caused criteria breaches.

South shore entrance head differential was in criteria on 84.8% of inspections. Failure of the automated control system caused criteria breaches.

North shore entrance (NSE-1 & 2) depths: NSE-1 weir gate was in depth criteria or sill criteria on 93.3% of inspections (92.7% depth, 0.6% sill). Failure of the automated control system caused criteria breaches.

NSE-2 weir gate was in depth or sill criteria on 93.3% of inspections (92.7% depth, 0.6% sill). Failure of the automated control system caused criteria breaches.

South powerhouse entrance (SPE-1 & 2) depths: SPE-1 weir gate was in depth or sill criteria on 98.8% of inspections (20.0% depth, 78.8% sill). Failure of the automated control system caused criteria breaches.

SPE-2 weir gate was in depth criteria or sill on 98.8% of inspections (20.0% depth, 78.8% sill). Failure of the automated control system caused criteria breaches.

South shore entrances (SSE-1 & 2): SSE-1 weir gate was in depth or sill criteria on 99.4% of inspections (46.7% depth, 52.7 % sill). Failure of the automated control system caused criteria breaches.

SSE-2 weir gate was in criteria on 100% of inspections.

North shore collection channel velocity: The velocity unit is located in north shore collection channel in the transition area between unit 1 and unit 2. The sending unit is positioned in the channel's length and width to avoid non-characteristic high or low readings that are not representative of overall velocity conditions. Accurate velocity readings require the inspector to wait for the digital display to warm up and achieve a duplication of its peak reading.

Velocities were in criteria on 98.8% of inspections (criteria: 1.5-4.0 ft/s). Gage was out of service on one inspection and showed 4.5 on another.

Recommendations

1. Leave pumps permanently installed in the auxiliary water supply conduit to reduce the preparation time for dewatering the lower ladders.
2. Remove sand and debris from the supply conduits and replace all original ladder diffuser grates, support structures, and mud valves.
3. Replace plastic picketed leads at the north shore with stainless steel leads to eliminate the expansion and warping that the plastic exhibits with hot temperatures. Construct the downstream leads so that the vanes are oriented at an angle to the water flow to prevent algae and debris from adhering to the vanes.
4. Modify the south shore picketed leads from a single set to a double set, and install an electric hoist system. This will allow for easier cleaning of the leads and prevent fish from becoming trapped between the leads during cleaning.
5. Modify the method of attachment of ladder exit debris booms and install exit booms capable of withstanding turbulent waters.
6. Operate the number of fish pumps needed to keep the fishway in criteria, such as three pumps during periods of higher tailwater levels, and two pumps at higher speeds when tailwater is lower. Manipulate weir gate depths and entrance head differentials as needed to keep all inspection points in criteria.
7. Finish rebuilding the fish pumps to fix the bearing housing attachment problems so that three reliable fish pumps are available to meet criteria.
8. Fully open the north shore Diffuser N1 and N2B gates to obtain higher head differentials at main entrances, greater weir depths, and increase total system discharge.
9. Improve south shore fishway conditions by either reversing the direction Diffuser S1 gates move with increasing tailwater or converting them from automatic operation to a fixed setting.
10. Verify the condition and settings for all diffuser gates and calibrate position indicators to actual gate position when the AWS is unwatered for inspection and maintenance.
11. Rebuild south shore entrance gates operating equipment. All other fish ladder entrance gates have rebuilt.
12. Repair north and south shore fish ladder joint leakage.

Table 2. Summary of adult fishway inspections at Lower Monumental Dam, 2014 [1]

			------Not Enough Depth------			-------Too Much Depth-------		
Criteria and Locations	**No. in Depth Criteria/ No. in Sill Criteria/ No. of Inspections**	**% In Depth Criteria/ % In Sill Criteria**	**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**
North Channel Water Velocities	163 *** 165	98.8 ***	*** ***	*** ***	*** ***	*** ***	*** ***	*** ***
Differentials								
North Ladder								
Ladder Exit	162 *** 165	98.2 ***	*** ***	*** ***	*** ***	0 0.0	1 0.6	2 1.2
Ladder Weirs	165 *** 165	100.0 ***	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
Counting Station	165 *** 165	100.0 ***	*** ***	*** ***	*** ***	0 0.0	0 0.0	0 0.0
South Ladder								
Ladder Exit	165 *** 165	100.0 ***	*** ***	*** ***	*** ***	0 0.0	0 0.0	0 0.0
Ladder Weirs	165 *** 165	100.0 ***	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
Counting Station	165 *** 165	100.0 ***	*** ***	*** ***	*** ***	0 0.0	0 0.0	0 0.0
Coll. Channels								
North Shore Entrance	156 *** 165	94.5 ***	3 1.8	3 1.8	3 1.8	0 0.0	0 0.0	0 0.0
South Powerhouse Entrance	144 *** 165	87.3 ***	8 4.8	4 2.4	8 4.8	0 0.0	0 0.0	0 0.0
South Shore Entrance	140 *** 165	84.8 ***	8 4.8	8 4.8	9 5.5	0 0.0	0 0.0	0 0.0
Weir Depths								
NSE-1[2]	153 1 165	92.7 0.6	2 1.2	1 0.6	9 5.5	*** ***	*** ***	*** ***
NSE-2[2]	153 1 165	92.7 0.6	3 1.8	0 0.0	9 5.5	*** ***	*** ***	*** ***
SPE-1[2]	33 130 165	20.0 78.8	0 0.0	0 0.0	2 1.2	*** ***	*** ***	*** ***
SPE-2[2]	33 130 165	20.0 78.8	0 0.0	0 0.0	2 1.2	*** ***	*** ***	*** ***
SSE-1[2]	77 87 165	46.7 52.7	0 0.0	0 0.0	1 0.6	*** ***	*** ***	*** ***
SSE-2	165 Not Applic. 165	100.0 ***	0 0.0	0 0.0	0 0.0	*** ***	*** ***	*** ***

[1] Data from Appendix 1.
[2] "On sill" means the weirgate is resting on its sill and meets "on sill" criteria at this location

SYNOPSIS OF JUVENILE FISH FACILITY OPERATION

Facility Description

Juvenile fish facilities at Lower Monumental Dam consist of: standard length submersible traveling screens, twelve inch orifices, a collection channel that terminates in a dewatering structure, transport flume, separator, and fish distribution system including, PIT tag bypass, sampling, holding facilities distribution, and barge and truck loading.

Each of the 18 bulkhead slots contains two orifices for diverting fish into the collection channel. Eighteen to 21 orifices are open at any one time with a minimum of one orifice open on all bulkhead slots of operating units. Lights are directed at each open orifice to enhance fish movement into the collection channel. The collection channel terminates at the primary dewatering structure where all but 30 cfs flow is removed. That remaining 30 cfs flow and fish are routed through the transport flume to the separator. Upon reaching the separator, adult and non-target fish are released to the river and juvenile fish pass below the separator bars and enter the distribution system. The distribution system directs the fish to their target locations.

Facility Modifications

The following modifications were made to the JFF prior to or during the 2014 fish collection season:

1. To accommodate the needs of the avian action plan, an area has been prepared with storage and concrete pads for deploying propane cannons at the LoMo tailrace.
2. A concrete ramp was installed for easy access to the facility storage building.
3. Handrails and concrete repair were added in numerous locations where one might accidently step off an elevated area. (Safety)

Operation and Maintenance

Turbine Operations

Efforts were made to operate all turbine units within one percent of the peak efficiency from April 1 to October 31. Deviations were infrequent and brief or required by BPA.

Below is a summary of unit outages and cause from March 1 through December 5.

Unit	Dates out of service	Reason out of service
All Units	March 17-26	Trash rack raking and STS installation
All Units	Monthly (3 days)	STS/VBS inspection.
All Units	May 27 - 29	Installation of oil sample tap/MU oil coolers – 1 unit at a time
All Units	August 21	Line Outage for T-1
	October 6	Trash Rack Inspections
Unit 1	July 21	Remove Headgate from Unit 1 B Slot for Unit 4B
	July 28	Swap STS
	Nov 10 – Dec 5	Annual Maintenance
	December 5	Headgate cylinder removal
Unit 2	June 3	Governor Repairs & Troubleshooting
	June 30 – July 17	Annual Maintenance
	July 21	Headgate cylinder removal
Unit 3	August 4 – 21	Annual Maintenance
	August 25 5	Headgate cylinder removal
	September 17-23	Troubleshoot high-lift pump
Unit 4	August 4	Headgate cylinder removal
	July 21-31	Annual Maintenance
	September 16	Hydrologic Surveys of Spill basin
	September 22	Modifications to Exciter Installation
Unit 5	June 10	Repair RTD in Thrust Tub
	June 18-23	Overspeed on Start-up possible governor problems
	June 23-27	Governor restoring cable replacement
	June 30	Remove Operating gate cylinder Unit 5 - Also switched out STS 5C due to failed gearbox.
	September 10- 12	Modifications to Exciter Installation
	September 16	Hydrologic Surveys of Spill basin
	October 20-24	Governor Repairs
Unit 6	Aug 25 – Nov 17	6 Year Overhaul
	November 10	Headgate cylinder removal

Debris/Trash Racks

Trash rack raking occurred on March 17, 18, and 19. A total of 30 cubic yards of debris was removed in this operation. Generally speaking, debris was light this season.

Submersible Screens

The submersible traveling screens (STSs) were inspected and tested on March 24 and were installed from March 24 through 26. After installation, inspection was done monthly by

underwater video camera through November. Only 3 STS problems required repair during the 2014 season. The STS in slot 3C had an open seam requiring repair on June 3. The STS in slot 2C had blown seals in the gearbox on July 22. The spare STS had leaking gearbox seals July 22.

STSs were operated in "cycle" mode while the average fork length of subyearling chinook and/or sockeye/kokanee were greater than 120 mm (March 24 through April 10), and in continuous "run" mode when either was less than 120 mm (April 10 to July 17). From July 17 through December 15 they again were operated in cycle mode as fish length exceeded 120 mm.

Vertical Barrier Screens

The vertical barrier screens (VBSs) were inspected by underwater video camera on July 8 and 9. Additionally, they were spot-checked monthly during STS inspections. No problems were found.

Gatewells

Dipping the bulkhead slots (gatewells) yielded 22 cubic yards of debris this season. Gatewells were normally less than 10% covered. Gatewells did not exceed the 50% debris criterion in 2014. Occasional oil sheens were dealt with by floating oil absorbent pads in the affected gatewells.

Orifices/Collection Channel

During the 2014 season the number of open orifices varied from 18 to 21 according to forebay level. With the Lower Monumental reservoir at minimum operating pool, water discharge through an orifice is reduced. During this period, extra orifices were opened to supply additional water to the adult fishway. Orifices were cycled and backflushed with air daily to remove debris. Orifice fouling was not a problem this season with low flows and a minimal debris load typifying the season. Orifice lights were checked daily. If a light was not working, the operating orifice was switched to the other orifice in the slot until repairs could be made.

Primary Dewaterer

A major problem occurred regarding the primary dewaterer during the 2012 season. Two weir stem drive gear assemblies failed. Weirs that were no longer useable were set to an acceptable elevation and an adjustment nut was used to hold them in place. A new automatic weir drive system is being researched and should be installed during the winter maintenance period of 2016.

The mechanical screen cleaner maintained a clean screen throughout the fish passage season. The compressed air screen cleaner functioned well, as usual, and the system as a whole functioned very well keeping debris from plugging the inclined screen. No other breakdowns occurred during the transport season but occasional adjustment of the cables and cable tension device of the mechanical screen cleaner was required.

Wet Separator/Distribution and Sampling Systems

Sudden water level drops at the separator were not a problem this year. Water level remained fairly consistent at the separator with the automated weirs of the primary dewaterer in manual. As has been the case for the last few years, the separator was run at a higher water level to assure no problem with exposed separator bars would occur.

Only one problem occurred with the PIT-tag diversion gates this season. On May 8 the "B" side diversion gate pneumatic cylinder was replaced.

PIT-tag diversion gate position sensors were installed eight years ago. These sensors act to prevent the over-travel problem we once had, and by so doing, they eliminated gate failure problems caused by metal fatigue.

Barge Loading Operations

Fish were transported by barge from May 1 through August 16. Barge loading went very smoothly this season with two exceptions. On May 30 the operating system on the barge boom failed and destroyed the cable and the boom nipple. The components were replaced and this did not adversely affect barge loading then or later. On August 14 the barge collided with the horizontal timbers on the upstream half of the barge dock. Damage was caused and the contractor is being required to repair the damage.

Additionally, the guide for the downstream mooring bit, having been deformed in a collision by a barge years ago, has caused a problem with the downstream floating mooring bit sticking low in the guides. Additionally, it has occasionally taken on water. Plans are being made to refurbish all the mooring bits and repair/replace the damaged downstream mooring bit guide.

Truck Loading Operations

Juvenile fish were transported by truck from August 16 to October 1. Due to a high mortality rate related to *columnaris*, only alternate days' collections were transported from September 13 through October 1. During this period, non-transport days were bypassed. Throughout the late season the midi-tanker was used because of low fish numbers. A 2.5 mg/l salt solution was used to treat and/or ease outbreaks of *columnaris*.

AVIAN PREDATOR MONITORING

Areas of avian predation monitoring included: the forebay, turbine and spillway discharge, and the JFF bypass outfall. Deterrent measures included: bird wires across the tailrace of the powerhouse, water cannon sprinklers at the exit of the bypass outfall pipe, bird deterrent spikes at common perching areas, and hazing (April 1 through June 2) under the animal control contract (APHIS). Two shift hazing coverage (daylight to dusk) occurred from May 6 through June 2 with the exception of holidays and weekends.

Avian predators tend to rest in the forebay and chase juvenile fish as they jump. They also spend time perched on the lock wall facing the tailrace. At the downstream navlock guidewall, bird wires were added along the top rail of the handrail during the winter 08-09 which effectively reduced the perching normally seen there, however, to a great extent the perching only relocated to the deck in front of the handrails.

The following data is based on bird counts taken in two separate procedures (limited to April 1 through October 1). The first procedure takes place during fish ladder inspections with supplemental counts by APHIS on days of no ladder inspection. The second procedure is from daily observations of the tailrace area taken at approximately 11:00 hours each day as specified in the Avian Action Plan.

1. Fish Ladder Inspection/APHIS supplemented Bird Monitoring

Fish ladder inspections are conducted three to six times a week at Lower Monumental Dam to assure ladders are operating within criteria. These inspections are conducted at random times and so contain counts during, as well as absent of active bird hazing. On Mondays and Thursdays (April 1 through June 2) APHIS contracted employees collect bird information in the same format as the ladder inspection data and this information is added to the spreadsheet for inclusion in this report. During daylight hours, gulls were present if hazing was not occurring. High juvenile fish numbers passing the dam via spill related to higher gull numbers. In the absence of hazing, gulls appeared to be fairly effective at feeding in the tailrace areas. Each ladder inspection includes an avian predator count section for five areas including: the forebay (FB), spillway (SWT1), under birdwires of the turbine discharge (PHT1), downstream of the birdwires below the turbine discharge (PHT2), and lastly at the juvenile bypass outfall (JFOF). Each area includes counts of both foraging and resting birds. The following summarizes this data collected from April 1 through October 1 of the 2014 operating year. The averages offered in each category include all data through the time period, and so it is an average of all the Fish Ladder Inspection/Aphis supplemented Bird Monitoring inspections for that condition (feeding/resting) in each zone.

Gulls

Gull numbers were highest from April 24 through May 29. Additionally, there was a second smaller peak in gull activity from July 14 to August 6. In all areas gull numbers dropped after May 29 as juvenile salmonid numbers became increasingly sparse. Gull numbers increased

again later in the year in response to increasing numbers of out migrating juvenile American shad.

Gull numbers feeding in the forebay (**FB**) ranged from 0 to 20 (May 3), and averaged 0.97. Gull numbers resting in the FB ranged from 0 to 101 (May 11), and averaged 7.98. FB gulls are typically seen resting on the nav lock guide wall.

Gull numbers feeding in the spillway (**SWT1**) ranged from 0 to 40 (July 19) and averaged 2.35. Gull numbers resting in SWT1 ranged from 0 to 29 (July 18), and averaged 1.60. SWT1 gulls are typically seen avoiding the pyrotechnics of the hazers firing over the spillway discharge from the navigation lock deck (elevation 536).

Gull numbers feeding in the power house tailrace under the bird wires (**PHT1**) ranged from 0 to 20 (May 4 and 5), and averaged 1.34. Gull numbers resting in PHT1 ranged from 0 to 20 (May 15), and averaged 0.42. PHT1 gulls are typically seen when the hazer is not present.

Gull numbers feeding in the power house tailrace downstream of the bird wires (**PHT2**) ranged from 0 to 65 (May 8) and averaged 4.05. Gull numbers resting in PHT2 ranged from 0 to 25 (April 21), and averaged 0.74. PHT2 gulls are typically seen when the hazer is not present.

Gull numbers feeding at juvenile bypass outfall (**JFOF**) ranged from 0 to 12 (May 6 and 8), and averaged 0.81. Gull numbers resting at JFOF ranged from 0 to 18 (April 29), and averaged 0.2. JFOF gulls are typically seen when large numbers of juvenile salmonids are bypassed.

Hazing was effective at moving the gulls out of the area. Two shifts were used to provide daylight to dusk coverage through the historic peak of the salmonid outmigration. The second shift of hazing was equally as effective as the morning shift. On days when hazing was not occurring, but fish passage numbers were high, the birds returned and resumed normal feeding behaviors. Gull numbers correlated well with the peak of the juvenile fish outmigration this season, as has been the rule in the past, but this season as a whole had relatively low total gull numbers. Annual gull numbers were low this year and last as compared to the past.

Pelicans

Pelican numbers were highest from April 22 through May 27. Additionally, there was a second smaller peak in pelican activity from June 2 to August 20. In all areas pelican numbers dropped after May 27 as juvenile salmonid numbers became increasingly sparse.

Pelican numbers feeding in the forebay (**FB**) ranged from 0 to 22 (May 1), and averaged 0.5. Pelican numbers resting in the FB ranged from 0 to 12 (May 5), and averaged 0.4. FB pelicans are typically seen cruising as a group; generally along the north shoreline.

Pelican numbers feeding in the spillway (**SWT1**) ranged from 0 to 7 (June 15) and averaged 0.62. Pelican numbers resting in SWT1 ranged from 0 to 16 (April 25), and averaged 0.16. SWT1 pelicans typically are not bothered by the pyrotechnics of the hazers firing to prevent gulls and terns from feeding.

Pelican numbers feeding in the power house tailrace under the bird wires (**PHT1**) ranged from 0 to 2 (May 12 and 15), and averaged 0.05. Pelican numbers resting in PHT1 ranged from 0 to 4 (June 11), and averaged 0.05. Pelicans come and go and can't be legally hazed as they are state protected.

Pelican numbers feeding in the power house tailrace downstream of the bird wires (**PHT2**) ranged from 0 to 5 (May 22 and 27) and averaged 0.36. Pelican numbers resting in PHT2 ranged from 0 to 12 (April 29), and averaged 0.11. Pelicans come and go and can't be legally hazed as they are state protected.

The number of pelicans feeding at the juvenile bypass outfall (**JFOF**) was 0 (April 1 – October 1), and averaged 0.00. Pelican numbers resting at JFOF ranged from 0 to 4 (April 22), and averaged 0.04. JFOF pelicans are typically seen when large numbers of juvenile salmonids are bypassed.

Terns

Tern numbers were highest from July 18 through August 8. Only 1 sighting occurred after August 8.

Tern numbers feeding in the forebay (**FB**) ranged from 0 to 3 (April 2), and averaged 0.15. Tern numbers resting in the FB ranged from 0 to 1 (June 18), and averaged 0.01. FB terns are rarely seen foraging.

Tern numbers feeding in the spillway (**SWT1**) ranged from 0 to 6 (June 18) and averaged 0.15. Tern numbers resting in SWT1 ranged from 0 to 1 (July 18 and 27), and averaged 0.02. SWT1 terns are effectively prevented from foraging by the pyrotechnics of the hazers.

Tern numbers feeding in the power house tailrace under the bird wires (**PHT1**) ranged from 0 to 1 (April 5), and averaged 0.01. Terns were not observed resting in PHT1. PHT1 tern observations are extremely rare.

Tern numbers feeding in the power house tailrace downstream of the bird wires (**PHT2**) ranged from 0 to 3 (July 19) and averaged 0.04. Terns were not observed resting in PHT2. PHT2 tern observations are extremely rare.

Terns were neither seen feeding nor resting at the juvenile bypass outfall (**JFOF**). JFOF tern observations are extremely rare.

Grebe

Grebe numbers were highest from May 20 through June 16. Grebe numbers began to rise again on September 13 and reached a season high of 29 on October 1.

Grebe numbers feeding in the forebay (**FB**) ranged from 0 to 26 (May 29), and averaged 1.43. Grebe numbers resting in the FB ranged from 0 to 24 (October 1), and averaged 0.19. FB grebes are often underwater and are hard to accurately count.

Grebe numbers feeding in the spillway (**SWT1**) ranged from 0 to 7 (September 28) and averaged 0.05. Grebe numbers resting in SWT1 ranged from 0 to 10 (September 13), and averaged 0.08. SWT1 grebes are not effectively prevented from foraging by the pyrotechnics of the hazers.

Grebe numbers feeding in the power house tailrace under the bird wires (**PHT1**) ranged from 0 to 5 (October 1), and averaged 0.05. Grebes were not observed resting in PHT1. PHT1 grebes are often underwater and are hard to accurately count.

No grebes were recorded feeding or resting in the power house tailrace downstream of the bird wires (**PHT2**) from April 1 through October 1. PHT2 grebes are often underwater and are hard to accurately count.

Grebes were neither seen feeding nor resting at the juvenile bypass outfall (**JFOF**). JFOF grebe observations are extremely rare.

Cormorant

Cormorant numbers were consistent throughout the season with a low from August 8 to September 3. Fall and winter cormorant numbers tend to be higher than their numbers during the juvenile salmonid outmigration.

Cormorant numbers feeding in the forebay (**FB**) ranged from 0 to 5 (May 18 and June 1), and averaged 0.44. Cormorant numbers resting in the FB ranged from 0 to 10 (September 14), and averaged 1.11. FB cormorants are commonly seen foraging and are impervious to hazing.

Cormorant numbers feeding in the spillway (**SWT1**) ranged from 0 to 30 (September 28) and averaged 1.08. Cormorant numbers resting in SWT1 ranged from 0 to 13 (July 19), and averaged 1.04. SWT1 cormorants are not effectively prevented from foraging by the pyrotechnics of the hazers.

Cormorant numbers feeding in the power house tailrace under the bird wires (**PHT1**) ranged from 0 to 11 (September 14), and averaged 0.41. Cormorant numbers resting in PHT1 ranged from 0 to 6 (May 8), and averaged 0.11. PHT1 cormorants come and go and are impervious to hazing.

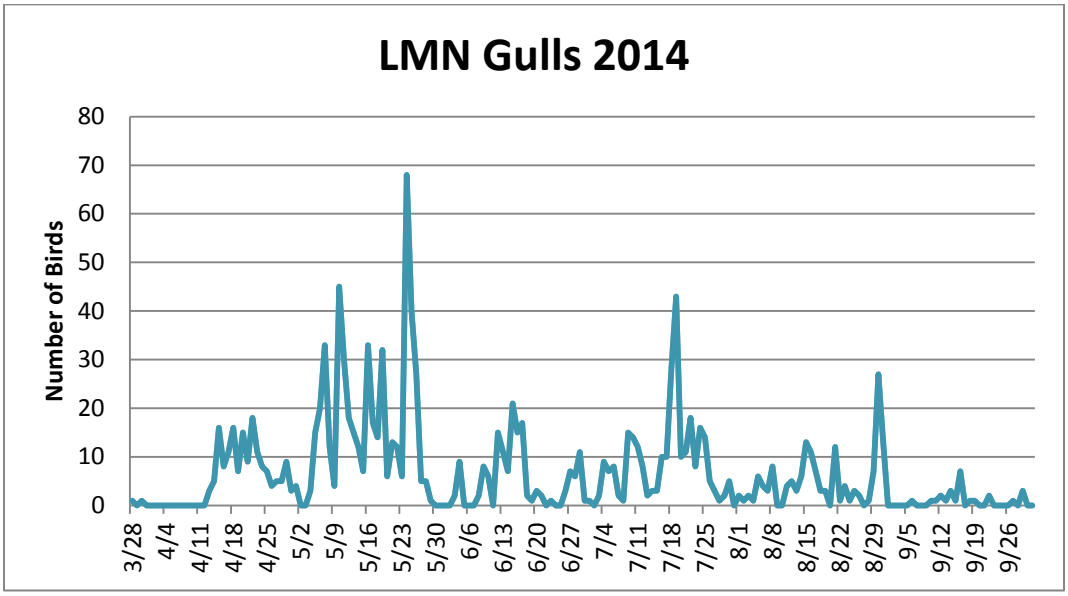
Cormorant numbers feeding in the power house tailrace downstream of the bird wires (**PHT2**) ranged from 0 to 4 (May 19 and September 26) and averaged 0.47. Cormorant numbers resting in PHT2 ranged from 0 to 6 (April 8), and averaged 0.26. PHT2 cormorants come and go and are impervious to hazing.

Cormorant numbers feeding at the juvenile bypass outfall (**JFOF**) ranged from 0 to 2 (April 28) and averaged 0.04. Cormorant numbers resting in JFOF ranged from 0 to 4 (September 13), and averaged 0.08. JFOF cormorants come and go and are impervious to hazing.

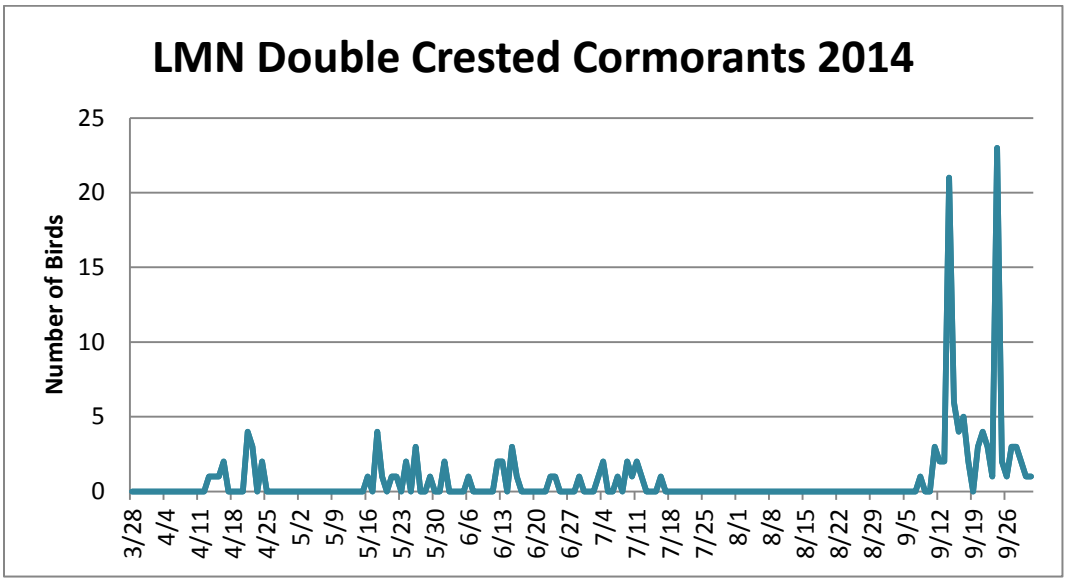
2. Tailrace Bird Monitoring of Lower Monumental Dam (Avian Action Plan)

Single daily counts of gulls, cormorants and terns occurred between the hours of 1100 and 1300 each day from April 1 through October 1 as per the Avian Action Plan. Maximum counts with date of occurrence, average count through entire period, and a graph of the daily counts for each species through the period are as follows.

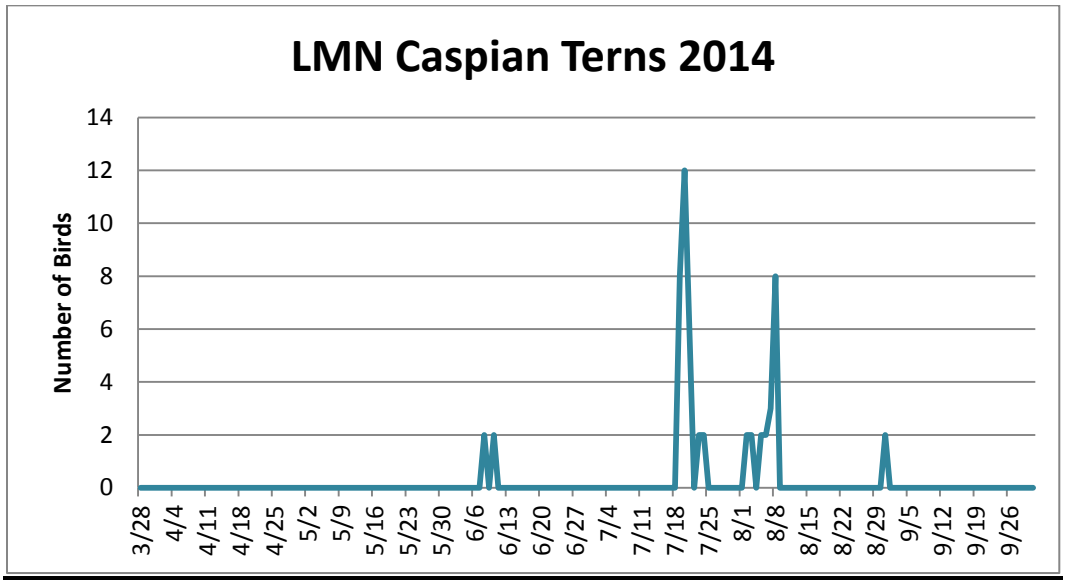
The maximum number of gulls was 68 (May 24) with a daily average of 6.83.



The maximum number of cormorants was 23 (September 24) with a daily average of 0.79.



The maximum number of terns was 12 (July 20) with a daily average of 0.30.



COOLING WATER STRAINER COUNTS

Turbine unit cooling water strainers were examined for biologic content once per month throughout the calendar year 2014. Species content included lamprey, salmon species, steelhead, prawn, and a final category titled "other" which included all other species; the vast majority of which were American shad. The number of each group and percent of the total of individuals of all groups combined was: juvenile lamprey 429 (40.2%), salmon species 41 (3.8%), steelhead 0 (0.0%), prawn 222 (20.8%), and other 376 (35.2%).

Timing of the entry of each group into the strainers represents migration timing coupled with susceptibly of being drawn into the cooling water system for each group at that growth stage. Juvenile lamprey were generally present from January through July with numbers peaking at 178 in March. Salmon species were generally susceptible only in May through June peaking at 35 in May. Steelhead were not seen in the strainers this year. Prawn were present throughout the year peaking at 61 in July. The group "Others" was generally present in January and April and from November through December peaking at 205 in December. The vast majority of all groups were no longer living when collected. The percent of each group released alive was: lamprey 4.9%, salmon species 0%, steelhead 0.0%, prawn 6.8%, and other 0%. Probability of any individual being alive at the time of strainer cleaning was likely more related to time of entry rather than which unit's strainer it was found in.

Recommendations

1. Install a shear boom across the forebay to direct debris to the spillway during the high flow/high debris period to reduce orifice fouling and associated fish injury.
2. Research converting the porosity unit upstream of the separator to a third stage of the separator designed for the removal and bypassing of fry and juvenile lamprey. The concept has been discussed with COE's engineer Ryan Laughery and he is optimistic regarding its feasibility and functionality. (in AMRIP)
3. Research converting the pipe system between the PIT facility counter tanks and the PIT facility holding tank exits with an open system that eliminates the need to hold fish in the PIT system holding tanks. This also has been discussed with Laughery and he believes it can be accomplished.

APPENDIX

APPENDIX 1. LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	1-Mar	2-Mar	3-Mar	6-Mar	10-Mar	11-Mar	12-Mar	13-Mar	17-Mar	18-Mar
CHAN'L VELOCITIES (N):	1.5	1.9	1.8	1.6	OOS	1.7	2.4	2.1	2	2.9
ELEVATIONS:										
North Fish Ladder										
Forebay	539.8	539.9	539.7	539.6	539.0	539.4	538.5	539.3	537.8	539.3
Exit Pool	539.0	539.2	538.3	539.6	539.0	539.4	538.5	539.3	537.8	539.0
Makeup Diffuser	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1
U S Picketed Leads	468.0	468.1	468.0	468.0	467.9	467.8	467.8	467.8	467.8	467.9
D S Picketed Leads	467.9	467.9	467.8	467.7	467.7	467.8	467.6	467.7	467.6	467.6
South Fish Ladder										
Forebay	539.8	540.0	538.8	539.7	539.1	539.5	538.4	539.4	537.8	539.3
Exit Pool	539.7	539.8	538.6	539.6	539.0	539.4	538.3	539.3	537.7	539.1
Makeup Diffuser	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.0	534.1	534.1
U S Picketed Leads	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.0	534.1	534.1
D S Picketed Leads	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.0	534.1	534.1
Collection Channels										
North Shore	441.9	441.0	441.1	442.6	444.2	444.4	443.5	442.8	442.4	440.7
South Powerhouse	441.8	440.6	440.9	442.4	444.1	444.2	443.4	442.7	442.2	440.5
South Shore	441.0	439.4	439.6	441.5	442.9	443.5	443.0	442.8	442.4	439.9
Tailwater										
North Shore	440.8	439.5	439.7	441.6	443.1	443.4	442.4	441.8	441.3	439.5
South Powerhouse	440.8	439.4	439.6	441.6	443.1	443.2	442.4	441.9	441.3	439.3
South Shore	440.9	439.3	439.5	441.5	442.5	442.5	441.9	441.9	441.3	438.3
Entrance Weirs										
NSE-1	431.2	431.2	431.2	431.2	433.2	433.2	434.1	432.0	432.0	432.0
NSE-2	431.5	431.5	431.5	431.5	433.1	433.2	434.1	432.0	432.0	432.0
SPE-1	432.0	432.0	432.0	432.0	434.9	434.9	434.9	432.1	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	434.9	434.9	434.9	432.0	432.0	432.0
SSE-1	431.1	431.1	431.1	431.1	433.0	433.0	433.0	433.0	433.0	433.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.8	0.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Ladder Weirs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Counting Station	0.1	0.2	0.2	0.3	0.2	0.0	0.2	0.1	0.2	0.3
South Fish Ladder										
Ladder Exit	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Ladder Weirs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.1	1.5	1.4	1.0	1.1	1.0	1.1	1.0	1.1	1.2
South Powerhouse	1.0	1.2	1.3	0.8	1.0	1.0	1.0	0.8	0.9	1.2
South Shore	0.1	0.1	0.1	0.0	0.4	1.0	1.1	0.9	1.1	1.6
Weir Depths										
NSE-1	9.6	8.3	8.5	10.4	9.9	10.2	8.3	9.8	9.3	7.5
NSE-2	9.3	8.0	8.2	10.1	10.0	10.2	8.3	9.8	9.3	7.5
SPE-1	8.8	7.4	7.6	9.6	8.2	8.3	7.5	9.8	9.3	7.3
SPE-2	8.8	7.4	7.6	9.6	8.2	8.3	7.5	9.9	9.3	7.3
SSE-1	9.8	8.2	8.4	10.4	9.5	9.5	8.9	8.9	8.3	5.3
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
Differentials										
North Fish Ladder										
Ladder Exit	NO	NO	NO	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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	NO	YES	YES	YES	NO	NO	YES
South Shore	NO	NO	NO	NO	NO	YES	YES	NO	YES	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO
SPE-1	YES	SILL	SILL	YES	YES	YES	NO	YES	YES	SILL
SPE-2	YES	SILL	SILL	YES	YES	YES	NO	YES	YES	SILL
SSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	19-Mar	20-Mar	24-Mar	25-Mar	26-Mar	27-Mar	29-Mar	30-Mar	31-Mar	2-Apr
CHAN'L VELOCITIES (N):	3.7	2.7	3.7	3.1	3.1	3.1	3.3	3.1	3	3.7
ELEVATIONS:										
North Fish Ladder										
Forebay	539.2	539.2	538.8	538.5	538.7	538.4	538.8	539.3	537.8	538.3
Exit Pool	539.0	539.0	538.6	538.3	538.5	538.3	538.6	539.0	537.6	538.3
Makeup Diffuser	534.1	534.1	534.1	534.1	534.2	534.1	534.2	534.0	534.1	534.2
U S Picketed Leads	467.8	467.9	467.9	467.9	468.0	467.8	467.9	467.8	467.8	467.9
D S Picketed Leads	467.6	467.7	467.7	467.7	467.8	467.6	467.8	467.7	467.6	467.7
South Fish Ladder										
Forebay	539.3	539.2	538.8	538.5	538.7	538.5	538.8	539.3	537.8	538.3
Exit Pool	539.1	539.1	538.7	538.4	538.6	538.4	538.8	539.0	537.6	538.3
Makeup Diffuser	534.1	534.1	534.1	534.1	534.2	534.1	534.0	534.1	534.1	534.2
U S Picketed Leads	534.1	534.1	534.1	534.1	534.2	534.1	534.0	534.1	534.1	534.2
D S Picketed Leads	534.1	534.1	534.1	534.1	534.2	534.0	534.0	534.1	534.1	534.2
Collection Channels										
North Shore	440.6	441.1	440.3	440.9	440.8	441.2	441.2	441.9	441.3	441.5
South Powerhouse	440.5	440.9	440.2	440.8	440.6	441.2	441.0	441.8	441.2	441.3
South Shore	440.4	440.9	439.9	440.9	440.7	441.3	440.6	441.9	441.2	441.4
Tailwater										
North Shore	439.1	440.1	439.3	439.9	439.7	440.2	440.2	440.9	440.2	440.5
South Powerhouse	439.1	439.0	439.2	439.8	439.6	440.2	440.0	440.8	440.2	440.4
South Shore	439.3	439.9	439.3	439.9	439.6	440.2	439.9	440.9	440.3	440.2
Entrance Weirs										
NSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
NSE-2	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.1	431.1	431.0	431.1	431.1	431.1	431.1	431.1
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.0
Ladder Weirs	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.0	1.1	1.2
Counting Station	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2
South Fish Ladder										
Ladder Exit	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.3	0.2	0.0
Ladder Weirs	1.1	1.1	1.1	1.1	1.2	1.1	1.0	1.1	1.1	1.2
Counting Station	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.5	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.1	1.0
South Powerhouse	1.4	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9
South Shore	1.1	1.0	0.6	1.0	1.1	1.1	0.7	1.0	0.9	1.2
Weir Depths										
NSE-1	8.1	9.1	8.3	8.9	8.7	9.2	9.2	9.9	9.2	9.5
NSE-2	8.1	9.1	8.3	8.9	8.7	9.2	9.2	9.9	9.2	9.5
SPE-1	7.1	7.0	7.2	7.8	7.6	8.2	8.0	8.8	8.2	8.4
SPE-2	7.1	7.0	7.2	7.8	7.6	8.2	8.0	8.8	8.2	8.4
SSE-1	8.3	8.9	8.2	8.8	8.6	9.1	8.8	9.8	9.2	9.1
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO
South Shore	YES	YES	NO	YES	YES	YES	NO	YES	NO	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	YES	YES	YES	YES	YES
SPE-2	SILL	SILL	SILL	SILL	SILL	YES	YES	YES	YES	YES
SSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	4-Apr	5-Apr	6-Apr	9-Apr	11-Apr	12-Apr	13-Apr	15-Apr	16-Apr	17-Apr
CHAN'L VELOCITIES (N):	3.9	3.7	3.6	3.4	3.2	3.7	3.6	3.1	3.1	3.1
ELEVATIONS:										
North Fish Ladder										
Forebay	537.6	537.4	537.5	537.5	537.4	537.6	538.6	537.5	537.7	537.6
Exit Pool	537.6	537.4	537.5	537.5	537.3	537.6	538.6	537.5	537.7	537.6
Makeup Diffuser	534.1	534.1	534.1	534.2	534.1	534.1	534.1	534.0	534.2	534.1
U S Picketed Leads	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8
D S Picketed Leads	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.7	467.6
South Fish Ladder										
Forebay	537.6	537.4	537.5	537.5	537.4	537.6	538.6	537.6	537.7	537.6
Exit Pool	537.6	537.3	537.4	537.5	537.3	537.5	538.5	537.6	537.7	537.5
Makeup Diffuser	534.0	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.0	534.1
U S Picketed Leads	534.0	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.0	534.1
D S Picketed Leads	534.0	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.0	534.1
Collection Channels										
North Shore	440.3	440.4	439.7	440.0	440.7	440.9	441.2	439.9	440.5	440.4
South Powerhouse	440.2	439.9	439.6	439.8	440.6	440.7	441.1	439.8	440.4	440.1
South Shore	439.4	439.7	438.9	439.2	440.1	439.9	440.4	439.1	439.5	439.7
Tailwater										
North Shore	439.2	439.0	438.5	438.6	439.6	439.9	440.1	438.5	439.5	439.2
South Powerhouse	439.0	438.8	438.5	438.6	439.5	439.6	440.0	438.6	438.8	439.1
South Shore	438.4	438.4	437.6	438.0	439.0	439.0	439.5	437.9	438.6	438.4
Entrance Weirs										
NSE-1	431.0	431.0	430.5	430.5	430.5	430.6	430.5	430.5	430.5	430.5
NSE-2	431.0	431.0	430.5	430.4	430.4	430.5	430.4	430.5	430.4	430.5
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Ladder Weirs	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.0	1.2	1.1
Counting Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
South Fish Ladder										
Ladder Exit	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1
Ladder Weirs	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.1	1.4	1.2	1.4	1.1	1.0	1.1	1.4	1.0	1.2
South Powerhouse	1.2	1.1	1.1	1.2	1.1	1.1	1.1	1.2	1.6	1.0
South Shore	1.0	1.3	1.3	1.2	1.1	0.9	0.9	1.2	0.9	1.3
Weir Depths										
NSE-1	8.2	8.0	8.0	8.1	9.1	9.3	9.6	8.0	9.0	8.7
NSE-2	8.2	8.0	8.0	8.2	9.2	9.4	9.7	8.0	9.1	8.7
SPE-1	7.0	6.8	6.5	6.6	7.5	7.6	8.0	6.6	6.8	7.1
SPE-2	7.0	6.8	6.5	6.6	7.5	7.6	8.0	6.6	6.8	7.1
SSE-1	7.4	7.4	6.6	7.0	8.0	8.0	8.5	6.9	7.6	7.4
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Shore	YES	YES	YES	YES	YES	NO	NO	YES	NO	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL	SILL
SSE-1	SILL	SILL	SILL	SILL	YES	YES	YES	SILL	SILL	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	18-Apr	19-Apr	20-Apr	21-Apr	23-Apr	25-Apr	26-Apr	27-Apr	29-Apr	2-May
CHAN'L VELOCITIES (N):	3.5	3.8	3.3	3.4	3.7	3.6	3.4	3.6	2.7	3.7
ELEVATIONS:										
North Fish Ladder										
Forebay	537.8	537.6	537.3	537.4	537.5	537.7	537.6	537.8	537.3	537.7
Exit Pool	537.8	537.6	537.3	537.4	537.5	537.7	537.5	537.8	537.3	537.7
Makeup Diffuser	534.1	534.1	534.0	534.1	534.2	534.1	534.1	534.1	534.1	534.1
U S Picketed Leads	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8
D S Picketed Leads	467.7	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6
South Fish Ladder										
Forebay	537.8	537.6	537.3	537.4	537.5	537.7	537.6	537.8	537.2	537.7
Exit Pool	537.7	537.5	537.3	537.4	537.5	537.6	537.4	537.7	537.2	537.6
Makeup Diffuser	534.1	534.1	534.1	534.1	534.0	534.1	534.1	534.1	534.2	534.1
U S Picketed Leads	534.1	534.1	534.1	534.1	534.0	534.1	534.1	534.1	534.2	534.1
D S Picketed Leads	534.1	534.1	534.1	534.1	534.0	534.1	534.1	534.1	534.2	534.1
Collection Channels										
North Shore	441.0	440.4	440.3	440.0	440.0	440.7	441.2	440.2	440.0	440.4
South Powerhouse	440.8	439.9	440.1	439.9	440.0	440.5	440.9	440.0	439.8	440.2
South Shore	440.2	439.2	439.5	439.4	439.0	440.0	440.6	439.3	440.5	439.3
Tailwater										
North Shore	439.8	439.2	439.0	438.8	438.6	439.5	440.0	438.8	438.7	439.2
South Powerhouse	439.7	438.8	438.8	438.5	438.6	439.3	440.1	438.8	438.8	438.9
South Shore	439.2	438.0	438.4	438.1	438.0	439.0	439.3	438.1	439.3	438.3
Entrance Weirs										
NSE-1	430.5	430.6	430.5	430.5	430.5	430.5	430.6	430.5	430.5	430.5
NSE-2	430.5	430.5	430.4	430.5	430.4	430.4	430.5	430.4	430.5	430.4
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
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 Weirs	1.1	1.1	1.0	1.1	1.2	1.1	1.1	1.1	1.1	1.1
Counting Station	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
South Fish Ladder										
Ladder Exit	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.1
Ladder Weirs	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.2	1.1
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.2	1.2	1.3	1.2	1.4	1.2	1.2	1.4	1.3	1.2
South Powerhouse	1.1	1.1	1.3	1.4	1.4	1.2	0.8	1.2	1.0	1.3
South Shore	1.0	1.2	1.1	1.3	1.0	1.0	1.3	1.2	1.2	1.0
Weir Depths										
NSE-1	9.3	8.6	8.5	8.3	8.1	9.0	9.4	8.3	8.2	8.7
NSE-2	9.3	8.7	8.6	8.3	8.2	9.1	9.5	8.4	8.2	8.8
SPE-1	7.7	6.8	6.8	6.5	6.6	7.3	8.1	6.8	6.8	6.9
SPE-2	7.7	6.8	6.8	6.5	6.6	7.3	8.1	6.8	6.8	6.9
SSE-1	8.2	7.0	7.4	7.1	7.0	8.0	8.3	7.1	8.3	7.3
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES
South Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL	SILL
SSE-1	YES	SILL	SILL	SILL	SILL	YES	YES	SILL	YES	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	3-May	4-May	7-May	9-May	10-May	11-May	14-May	16-May	17-May	18-May
CHAN'L VELOCITIES (N):	4.5	3.8	3.4	3.6	3.1	3.7	3.2	3.8	3.5	3.6
ELEVATIONS:										
North Fish Ladder										
Forebay	537.2	537.4	537.3	537.5	537.3	537.6	537.8	537.6	537.5	537.6
Exit Pool	537.1	537.4	537.3	537.5	537.2	537.6	537.8	537.6	537.5	537.6
Makeup Diffuser	534.1	534.1	534.2	534.0	534.1	534.0	534.2	534.1	534.1	534.0
U S Picketed Leads	467.7	467.8	467.7	467.8	467.7	467.8	467.8	468.9	467.8	467.8
D S Picketed Leads	467.6	467.6	467.6	467.6	467.6	467.6	467.6	468.6	467.6	467.6
South Fish Ladder										
Forebay	537.2	537.4	537.3	537.5	537.2	537.6	537.8	537.7	537.5	537.6
Exit Pool	537.1	537.4	537.3	537.4	537.2	537.5	537.8	537.6	537.4	537.6
Makeup Diffuser	534.0	534.1	534.1	534.0	534.1	534.1	534.2	534.1	534.1	534.1
U S Picketed Leads	534.0	534.1	534.1	534.0	534.1	534.1	534.2	534.1	534.1	534.1
D S Picketed Leads	534.0	534.1	534.1	534.0	534.1	534.1	534.2	534.1	534.1	534.1
Collection Channels										
North Shore	440.4	441.4	441.3	440.8	440.8	440.9	440.1	441.2	441.6	442.7
South Powerhouse	439.9	441.2	441.2	440.8	440.6	440.7	440.2	441.0	441.4	442.6
South Shore	439.8	440.5	440.7	440.0	440.1	440.5	439.4	440.4	440.8	442.1
Tailwater										
North Shore	439.0	439.9	440.5	439.5	439.7	439.7	438.5	440.0	440.8	441.6
South Powerhouse	438.8	440.1	440.6	439.6	439.5	439.7	438.6	440.0	440.7	441.6
South Shore	438.4	439.3	439.6	438.9	438.9	439.2	438.0	439.4	439.5	441.0
Entrance Weirs										
NSE-1	430.6	430.5	430.5	430.5	430.6	430.5	430.5	430.6	430.6	430.5
NSE-2	430.5	430.4	430.4	430.4	430.5	430.4	430.5	430.5	430.5	430.4
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Ladder Weirs	1.1	1.1	1.2	1.0	1.1	1.0	1.2	1.1	1.1	1.0
Counting Station	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.2	0.2
South Fish Ladder										
Ladder Exit	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.0
Ladder Weirs	1.0	1.1	1.1	1.0	1.1	1.1	1.2	1.1	1.1	1.1
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.4	1.5	0.8	1.3	1.1	1.2	1.6	1.2	0.8	1.1
South Powerhouse	1.1	1.1	0.6	1.2	1.1	1.0	1.6	1.0	0.7	1.0
South Shore	1.4	1.2	1.1	1.1	1.2	1.3	1.4	1.0	1.3	1.1
Weir Depths										
NSE-1	8.4	9.4	10.0	9.0	9.1	9.2	8.0	9.4	10.2	11.1
NSE-2	8.5	9.5	10.1	9.1	9.2	9.3	8.0	9.5	10.3	11.2
SPE-1	6.8	8.1	8.6	7.6	7.5	7.7	6.6	8.0	8.7	9.6
SPE-2	6.8	8.1	8.6	7.6	7.5	7.7	6.6	8.0	8.7	9.6
SSE-1	7.4	8.3	8.6	7.9	7.9	8.2	7.0	8.4	8.5	10.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	NO	YES	YES	YES	YES	YES	NO	YES
South Powerhouse	YES	YES	NO	YES	YES	YES	YES	YES	NO	YES
South Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	YES	YES	SILL	SILL	SILL	SILL	YES	YES	YES
SPE-2	SILL	YES	YES	SILL	SILL	SILL	SILL	YES	YES	YES
SSE-1	SILL	YES	YES	SILL	SILL	YES	SILL	YES	YES	YES
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	21-May	23-May	24-May	25-May	26-May	28-May	30-May	31-May	1-Jun	4-Jun
CHAN'L VELOCITIES (N):	3.3	3.6	2.6	2.4	3.1	2.2	3.1	3.1	3.2	3.4
ELEVATIONS:										
North Fish Ladder										
Forebay	537.4	537.3	537.5	537.3	537.6	537.6	537.4	537.6	537.6	537.6
Exit Pool	537.4	537.3	537.5	537.3	537.6	537.5	537.4	537.6	537.6	537.5
Makeup Diffuser	534.1	534.0	534.1	534.0	534.0	534.2	534.1	534.2	534.1	534.1
U S Picketed Leads	467.8	467.8	467.8	467.7	467.8	467.8	467.8	467.8	467.8	467.8
D S Picketed Leads	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.5	467.6	467.6
South Fish Ladder										
Forebay	537.4	537.4	537.5	537.3	537.6	537.6	537.4	537.6	537.6	537.6
Exit Pool	537.4	537.3	537.5	537.2	537.5	537.6	537.3	537.6	537.5	537.4
Makeup Diffuser	534.1	534.0	534.1	534.0	534.1	534.2	534.1	534.2	534.1	534.1
U S Picketed Leads	534.1	534.0	534.1	534.0	534.1	534.2	534.1	534.2	534.1	534.1
D S Picketed Leads	534.1	534.0	534.1	534.0	534.1	534.2	534.1	534.2	534.1	534.1
Collection Channels										
North Shore	441.8	443.0	443.3	444.5	444.2	443.8	443.5	443.0	442.9	442.6
South Powerhouse	441.6	442.9	443.1	444.4	444.1	443.6	443.3	442.8	442.7	442.4
South Shore	441.1	442.9	442.9	443.7	443.5	442.6	442.1	442.6	442.3	441.3
Tailwater										
North Shore	440.8	442.0	442.6	443.5	443.1	442.5	442.2	441.6	441.8	441.7
South Powerhouse	440.9	441.7	442.5	443.2	442.9	442.7	442.0	441.6	441.6	441.5
South Shore	440.0	441.3	441.8	442.6	442.4	441.7	441.3	441.4	441.2	440.5
Entrance Weirs										
NSE-1	430.5	430.5	430.6	433.8	433.8	433.8	433.8	433.8	431.8	431.8
NSE-2	430.4	430.4	430.5	433.7	433.7	433.7	433.7	433.7	431.8	431.8
SPE-1	432.0	432.0	432.0	433.8	433.8	433.8	434.0	434.0	432.0	432.0
SPE-2	432.0	432.0	432.0	433.8	433.8	433.8	433.9	433.9	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Ladder Weirs	1.1	1.0	1.1	1.0	1.0	1.2	1.1	1.2	1.1	1.1
Counting Station	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2
South Fish Ladder										
Ladder Exit	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.2
Ladder Weirs	1.1	1.0	1.1	1.0	1.1	1.2	1.1	1.2	1.1	1.1
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.0	1.0	0.7	1.0	1.1	1.3	1.3	1.4	1.1	0.9
South Powerhouse	0.7	1.2	0.6	1.2	1.2	0.9	1.3	1.2	1.1	0.9
South Shore	1.1	1.6	1.1	1.1	1.1	0.9	0.8	1.2	1.1	0.8
Weir Depths										
NSE-1	10.3	11.5	12.0	9.7	9.3	8.7	8.4	7.8	10.0	9.9
NSE-2	10.4	11.6	12.1	9.8	9.4	8.8	8.5	7.9	10.0	9.9
SPE-1	8.9	9.7	10.5	9.4	9.1	8.9	8.0	7.6	9.6	9.5
SPE-2	8.9	9.7	10.5	9.4	9.1	8.9	8.1	7.7	9.6	9.5
SSE-1	9.0	10.3	10.8	11.6	11.4	10.7	10.3	10.4	10.2	9.5
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO
South Powerhouse	NO	YES	NO	YES	YES	NO	YES	YES	YES	NO
South Shore	YES	YES	YES	YES	YES	NO	NO	YES	YES	NO
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES
SPE-1	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES
SPE-2	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES
SSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	6-Jun	7-Jun	8-Jun	9-Jun	11-Jun	13-Jun	14-Jun	15-Jun	16-Jun	18-Jun
CHAN'L VELOCITIES (N):	3.7	3.6	3.5	3.4	3.3	3.7	3.5	3.1	3.5	2.8
ELEVATIONS:										
North Fish Ladder										
Forebay	537.3	537.7	537.3	537.8	537.6	537.3	537.3	537.4	537.5	537.6
Exit Pool	537.3	537.7	537.3	537.8	537.5	537.3	537.3	537.4	537.5	537.6
Makeup Diffuser	534.0	534.1	534.1	534.1	534.2	534.0	534.1	534.1	534.1	534.1
U S Picketed Leads	467.8	467.8	467.8	467.8	467.8	467.8	467.7	467.8	467.8	467.8
D S Picketed Leads	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6
South Fish Ladder										
Forebay	537.3	537.7	537.2	537.8	537.6	537.3	537.3	537.4	537.5	537.6
Exit Pool	537.2	537.6	537.2	537.6	537.5	537.3	537.2	537.4	537.5	537.6
Makeup Diffuser	534.0	534.1	534.0	534.1	534.1	534.0	534.0	534.1	534.0	534.1
U S Picketed Leads	534.0	534.1	534.0	534.1	534.1	534.0	534.0	534.1	534.0	534.1
D S Picketed Leads	534.0	534.1	534.0	534.1	534.1	534.0	534.0	534.1	534.0	534.1
Collection Channels										
North Shore	443.1	442.5	442.3	441.9	441.4	441.3	440.8	440.4	440.0	440.0
South Powerhouse	442.9	442.2	442.1	441.7	441.2	441.1	440.4	440.2	439.8	440.0
South Shore	442.6	441.8	441.6	441.1	440.5	440.4	440.1	439.5	439.0	439.5
Tailwater										
North Shore	442.1	441.6	441.1	440.8	440.5	440.0	439.5	438.8	438.6	439.5
South Powerhouse	441.8	441.2	441.0	440.5	440.4	439.9	439.4	438.7	438.5	439.4
South Shore	441.5	440.6	440.4	440.3	439.3	439.7	439.0	438.5	437.8	438.4
Entrance Weirs										
NSE-1	431.8	431.8	431.8	431.8	431.8	431.8	431.9	431.8	431.0	429.0
NSE-2	431.8	431.8	431.8	431.8	431.8	431.8	431.8	431.8	431.0	429.0
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Ladder Weirs	1.0	1.1	1.1	1.1	1.2	1.0	1.1	1.1	1.1	1.1
Counting Station	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
South Fish Ladder										
Ladder Exit	0.1	0.1	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0
Ladder Weirs	1.0	1.1	1.0	1.1	1.1	1.0	1.0	1.1	1.0	1.1
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.0	0.9	1.2	1.1	0.9	1.3	1.3	1.6	1.4	0.5
South Powerhouse	1.1	1.0	1.1	1.2	0.8	1.2	1.0	1.5	1.3	0.6
South Shore	1.1	1.2	1.2	0.8	1.2	0.7	1.1	1.0	1.2	1.1
Weir Depths										
NSE-1	10.3	9.8	9.3	9.0	8.7	8.2	7.6	7.0	7.6	10.5
NSE-2	10.3	9.8	9.3	9.0	8.7	8.2	7.7	7.0	7.6	10.5
SPE-1	9.8	9.2	9.0	8.5	8.4	7.9	7.4	6.7	6.5	7.4
SPE-2	9.8	9.2	9.0	8.5	8.4	7.9	7.4	6.7	6.5	7.4
SSE-1	10.5	9.6	9.4	9.3	8.3	8.7	8.0	7.5	6.8	7.4
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	NO	YES	YES	NO	YES	YES	YES	YES	NO
South Powerhouse	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO
South Shore	YES	YES	YES	NO	YES	NO	YES	YES	YES	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	NO	NO	NO	YES
NSE-2	YES	YES	YES	YES	YES	YES	NO	NO	NO	YES
SPE-1	YES	YES	YES	YES	YES	SILL	SILL	SILL	SILL	SILL
SPE-2	YES	YES	YES	YES	YES	SILL	SILL	SILL	SILL	SILL
SSE-1	YES	YES	YES	YES	YES	YES	YES	SILL	SILL	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	20-Jun	21-Jun	22-Jun	25-Jun	27-Jun	28-Jun	29-Jun	2-Jul	5-Jul	6-Jul
CHAN'L VELOCITIES (N):	3.2	2.8	3.1	2.5	3.1	3.1	3.3	3.1	2.8	3
ELEVATIONS:										
North Fish Ladder										
Forebay	537.6	537.6	537.4	537.4	537.7	537.5	537.3	537.5	537.4	537.6
Exit Pool	537.6	537.5	537.4	537.4	537.7	537.5	537.3	537.5	537.4	537.6
Makeup Diffuser	534.0	534.1	534.0	534.2	534.0	534.1	534.1	534.2	534.1	534.0
U S Picketed Leads	467.8	467.8	467.8	467.8	467.7	467.7	467.8	467.8	467.7	467.7
D S Picketed Leads	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6
South Fish Ladder										
Forebay	537.6	537.6	537.4	537.4	537.8	537.5	537.3	537.5	537.4	537.6
Exit Pool	537.6	537.5	537.4	537.4	537.7	537.5	537.3	537.5	537.3	537.5
Makeup Diffuser	534.0	534.1	534.0	534.0	534.0	534.1	534.1	534.2	534.0	534.0
U S Picketed Leads	534.0	534.1	534.0	534.1	534.0	534.1	534.1	534.2	534.1	534.0
D S Picketed Leads	534.0	534.1	534.0	534.0	534.0	534.1	534.1	534.2	534.0	534.0
Collection Channels										
North Shore	439.5	439.9	439.8	440.2	440.1	440.9	440.0	439.7	440.1	439.8
South Powerhouse	439.4	439.7	439.7	440.0	440.0	440.8	440.0	439.8	439.8	439.7
South Shore	438.7	439.2	439.3	439.6	439.2	440.4	439.1	438.8	439.5	439.3
Tailwater										
North Shore	438.2	438.8	438.7	439.1	439.0	440.1	438.9	438.4	439.0	438.5
South Powerhouse	438.0	438.6	438.5	439.0	438.8	440.0	438.7	438.0	438.9	438.7
South Shore	437.9	438.2	438.3	438.5	438.4	439.3	437.9	437.7	438.3	438.0
Entrance Weirs										
NSE-1	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
NSE-2	430.0	430.1	430.0	430.0	430.0	430.1	430.0	430.0	430.1	430.0
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ladder Weirs	1.0	1.1	1.0	1.2	1.0	1.1	1.1	1.2	1.1	1.0
Counting Station	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1
South Fish Ladder										
Ladder Exit	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1
Ladder Weirs	1.0	1.1	1.0	1.0	1.0	1.1	1.1	1.2	1.0	1.0
Counting Station	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0
Collection Channels										
North Shore	1.3	1.1	1.1	1.1	1.1	0.8	1.1	1.3	1.1	1.3
South Powerhouse	1.4	1.1	1.2	1.0	1.2	0.8	1.3	1.8	0.9	1.0
South Shore	0.8	1.0	1.0	1.1	0.8	1.1	1.2	1.1	1.2	1.3
Weir Depths										
NSE-1	8.2	8.8	8.7	9.1	9.0	10.1	8.9	8.4	9.0	8.5
NSE-2	8.2	8.7	8.7	9.1	9.0	10.0	8.9	8.4	8.9	8.5
SPE-1	6.0	6.6	6.5	7.0	6.8	8.0	6.7	6.0	6.9	6.7
SPE-2	6.0	6.6	6.5	7.0	6.8	8.0	6.7	6.0	6.9	6.7
SSE-1	6.9	7.2	7.3	7.5	7.4	8.3	6.9	6.7	7.3	7.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	YES	YES	NO	YES	YES	NO	YES
South Shore	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL	SILL	SILL
SSE-1	SILL	SILL	SILL	SILL	SILL	YES	SILL	SILL	SILL	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	9-Jul	11-Jul	12-Jul	13-Jul	14-Jul	16-Jul	18-Jul	19-Jul	20-Jul	23-Jul
CHAN'L VELOCITIES (N):	3	3.1	3.1	2.9	2.9	2.6	2.3	2.5	2.8	1.9
ELEVATIONS:										
North Fish Ladder										
Forebay	537.3	537.6	537.7	537.3	537.2	537.4	537.5	537.8	537.7	537.5
Exit Pool	537.3	537.6	537.6	537.3	537.2	537.4	537.5	537.7	537.7	537.5
Makeup Diffuser	534.1	534.0	534.0	534.0	534.0	534.0	534.0	534.1	534.0	534.1
U S Picketed Leads	467.8	467.7	467.7	467.7	467.7	467.8	467.7	467.7	467.7	467.7
D S Picketed Leads	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6
South Fish Ladder										
Forebay	537.3	537.6	537.7	537.2	537.2	537.4	537.5	537.8	537.7	537.5
Exit Pool	537.3	537.6	537.6	537.2	537.2	537.4	537.5	537.7	537.6	537.5
Makeup Diffuser	534.1	534.0	534.0	534.0	534.0	534.0	534.1	534.1	534.0	534.1
U S Picketed Leads	534.1	534.0	534.0	534.0	534.0	534.2	534.1	534.1	534.0	534.1
D S Picketed Leads	534.1	534.0	534.0	534.0	534.0	534.0	534.1	534.1	534.0	534.1
Collection Channels										
North Shore	440.0	439.0	440.1	439.1	439.1	439.5	439.2	439.0	439.3	438.8
South Powerhouse	439.8	438.9	439.5	439.0	439.0	439.5	439.0	438.9	439.1	438.9
South Shore	439.8	438.1	438.6	438.6	438.5	438.5	438.5	438.4	438.0	438.5
Tailwater										
North Shore	439.0	437.6	438.8	438.0	438.0	438.4	438.1	437.7	438.2	437.3
South Powerhouse	439.2	437.7	438.6	437.8	438.0	438.6	437.9	437.4	437.9	437.8
South Shore	438.9	436.9	437.1	437.2	437.2	437.2	437.1	437.0	437.3	436.9
Entrance Weirs										
NSE-1	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
NSE-2	430.0	430.0	430.1	430.0	430.0	430.0	430.0	430.1	430.0	430.0
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Ladder Weirs	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.1
Counting Station	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
South Fish Ladder										
Ladder Exit	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Ladder Weirs	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.1
Counting Station	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.0	1.4	1.3	1.1	1.1	1.1	1.1	1.3	1.1	1.5
South Powerhouse	0.6	1.2	0.9	1.2	1.0	0.9	1.1	1.5	1.2	1.1
South Shore	0.9	1.2	1.5	1.4	1.3	1.3	1.4	1.4	0.7	1.6
Weir Depths										
NSE-1	9.0	7.6	8.8	8.0	8.0	8.4	8.1	7.7	8.2	7.3
NSE-2	9.0	7.6	8.7	8.0	8.0	8.4	8.1	7.6	8.2	7.3
SPE-1	7.2	5.7	6.6	5.8	6.0	6.6	5.9	5.4	5.9	5.8
SPE-2	7.2	5.7	6.6	5.8	6.0	6.6	5.9	5.4	5.9	5.8
SSE-1	7.9	5.9	6.1	6.2	6.2	6.2	6.1	6.0	6.3	5.9
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	NO	YES	NO	YES	YES	NO	YES	YES	YES	YES
South Shore	NO	YES	YES	YES	YES	YES	YES	YES	NO	YES
Weir Depths										
NSE-1	YES	NO	YES	YES	YES	YES	YES	NO	YES	NO
NSE-2	YES	NO	YES	YES	YES	YES	YES	NO	YES	NO
SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	25-Jul	26-Jul	27-Jul	30-Jul	1-Aug	2-Aug	3-Aug	6-Aug	8-Aug	9-Aug
CHAN'L VELOCITIES (N):	2.8	2.3	2.1	2.4	2.6	2.5	2.5	2.8	2.5	2.7
ELEVATIONS:										
North Fish Ladder										
Forebay	537.4	537.5	537.5	537.5	537.4	537.3	537.4	537.6	537.4	537.5
Exit Pool	537.4	537.5	537.5	537.5	537.4	537.2	537.4	537.6	537.4	537.5
Makeup Diffuser	534.0	534.1	534.1	534.1	534.0	534.1	534.0	534.1	534.0	534.1
U S Picketed Leads	467.7	467.7	467.7	467.8	467.8	467.8	467.8	467.9	467.8	467.7
D S Picketed Leads	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6
South Fish Ladder										
Forebay	537.4	537.5	537.5	537.5	537.4	537.3	537.4	537.6	537.4	537.5
Exit Pool	537.4	537.4	537.5	537.5	537.4	537.3	537.4	537.6	537.4	537.5
Makeup Diffuser	534.1	534.0	534.0	534.1	534.0	534.1	534.0	534.1	534.0	534.1
U S Picketed Leads	534.1	534.0	534.0	534.1	534.0	534.1	534.0	534.1	534.0	534.1
D S Picketed Leads	534.1	534.0	534.0	534.1	534.0	534.1	534.0	534.1	534.0	534.1
Collection Channels										
North Shore	438.9	438.5	438.8	438.7	438.7	438.6	438.9	438.9	438.8	439.0
South Powerhouse	438.8	438.5	438.7	438.8	438.6	438.5	438.8	438.8	438.7	438.8
South Shore	438.3	438.3	438.4	438.2	437.4	438.2	438.1	438.0	438.3	438.2
Tailwater										
North Shore	437.7	437.2	437.5	437.3	437.4	437.0	437.3	436.9	437.3	437.3
South Powerhouse	437.5	437.0	437.4	437.9	437.2	436.9	437.4	437.2	437.2	437.1
South Shore	436.9	436.6	436.9	436.6	436.6	436.4	436.3	436.5	436.5	436.7
Entrance Weirs										
NSE-1	430.0	429.1	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.1
NSE-2	430.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Ladder Weirs	1.0	1.1	1.1	1.1	1.0	1.1	1.0	1.1	1.0	1.1
Counting Station	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1
South Fish Ladder										
Ladder Exit	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ladder Weirs	1.1	1.0	1.0	1.1	1.0	1.1	1.0	1.1	1.0	1.1
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.2	1.3	1.3	1.4	1.3	1.6	1.6	2.0	1.5	1.7
South Powerhouse	1.3	1.5	1.3	0.9	1.4	1.6	1.4	1.6	1.5	1.7
South Shore	1.4	1.7	1.5	1.6	0.8	1.8	1.8	1.5	1.8	1.5
Weir Depths										
NSE-1	7.7	8.1	8.5	8.3	8.4	8.0	8.3	7.9	8.3	8.2
NSE-2	7.7	8.2	8.5	8.3	8.4	8.0	8.3	7.9	8.3	8.3
SPE-1	5.5	5.0	5.4	5.9	5.2	4.9	5.4	5.2	5.2	5.1
SPE-2	5.5	5.0	5.4	5.9	5.2	4.9	5.4	5.2	5.2	5.1
SSE-1	5.9	5.6	5.9	5.6	5.6	5.4	5.3	5.5	5.5	5.7
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES
South Shore	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
Weir Depths										
NSE-1	NO	YES	YES	YES	YES	YES	YES	NO	YES	YES
NSE-2	NO	YES	YES	YES	YES	YES	YES	NO	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	11-Aug	12-Aug	13-Aug	16-Aug	20-Aug	22-Aug	23-Aug	24-Aug	27-Aug	29-Aug
CHAN'L VELOCITIES (N):	2.6	2.8	2.9	2.9	2.6	2.7	2.7	2.9	2.7	2.6
ELEVATIONS:										
North Fish Ladder										
Forebay	537.5	537.4	537.5	537.2	537.3	537.6	537.3	537.3	537.4	537.6
Exit Pool	537.5	537.4	537.5	537.2	537.3	537.5	537.3	537.3	537.4	537.6
Makeup Diffuser	534.1	534.0	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1
U S Picketed Leads	467.7	467.8	467.8	467.7	467.9	467.9	467.9	467.9	468.0	468.0
D S Picketed Leads	467.6	467.6	467.6	467.5	467.6	467.6	467.6	467.5	467.6	467.6
South Fish Ladder										
Forebay	537.6	537.6	537.5	537.2	537.3	537.6	537.3	537.5	537.4	537.6
Exit Pool	537.6	537.4	537.5	537.1	537.3	537.5	537.2	537.4	537.4	537.5
Makeup Diffuser	534.0	534.2	534.1	534.1	534.1	534.0	534.0	534.1	534.1	534.1
U S Picketed Leads	534.0	534.2	534.2	534.1	534.1	534.0	534.0	534.1	534.1	534.1
D S Picketed Leads	534.0	534.2	534.1	534.1	534.1	534.0	534.0	534.1	534.1	534.1
Collection Channels										
North Shore	438.7	439.0	439.0	439.1	439.3	439.0	438.9	438.9	439.0	439.0
South Powerhouse	438.6	438.8	439.0	438.6	439.4	438.9	438.4	438.8	439.0	439.0
South Shore	438.1	438.4	438.0	438.6	438.1	438.5	438.3	438.3	438.6	438.7
Tailwater										
North Shore	437.4	437.6	437.3	437.4	437.5	437.4	437.1	437.3	437.4	437.4
South Powerhouse	436.6	437.3	437.4	437.3	438.0	437.4	437.1	437.3	437.3	437.7
South Shore	436.4	437.0	436.8	437.0	436.7	436.5	436.6	436.5	436.8	436.9
Entrance Weirs										
NSE-1	429.0	429.0	429.0	429.1	429.0	429.0	429.1	429.0	429.0	429.0
NSE-2	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Ladder Weirs	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Counting Station	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4
South Fish Ladder										
Ladder Exit	0.0	0.2	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1
Ladder Weirs	1.0	1.2	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.1
Counting Station	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.3	1.4	1.7	1.7	1.8	1.6	1.8	1.6	1.6	1.6
South Powerhouse	2.0	1.5	1.6	1.3	1.4	1.5	1.3	1.5	1.7	1.3
South Shore	1.7	1.4	1.2	1.6	1.4	2.0	1.7	1.8	1.8	1.8
Weir Depths										
NSE-1	8.4	8.6	8.3	8.3	8.5	8.4	8.0	8.3	8.4	8.4
NSE-2	8.4	8.6	8.3	8.4	8.5	8.4	8.1	8.3	8.4	8.4
SPE-1	4.6	5.3	5.4	5.3	6.0	5.4	5.1	5.3	5.3	5.7
SPE-2	4.6	5.3	5.4	5.3	6.0	5.4	5.1	5.3	5.3	5.7
SSE-1	5.4	6.0	5.8	6.0	5.7	5.5	5.6	5.5	5.8	5.9
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	30-Aug	31-Aug	3-Sep	5-Sep	6-Sep	7-Sep	10-Sep	12-Sep	13-Sep	14-Sep
CHAN'L VELOCITIES (N):	2.6	2.4	2.8	2.8	2.2	2.9	2.7	2.9	3.3	3.5
ELEVATIONS:										
North Fish Ladder										
Forebay	537.5	537.5	539.4	539.7	537.2	539.3	538.8	538.9	538.8	539.1
Exit Pool	537.5	537.5	539.4	539.6	537.2	539.2	538.8	538.8	538.8	539.1
Makeup Diffuser	534.1	534.0	534.1	534.1	534.1	534.1	534.1	534.1	534.2	534.1
U S Picketed Leads	467.7	467.7	467.8	467.8	467.7	467.7	467.8	467.6	467.8	467.7
D S Picketed Leads	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.5	467.6	467.5
South Fish Ladder										
Forebay	537.5	537.6	539.4	539.7	539.2	539.6	538.8	538.9	538.8	539.1
Exit Pool	537.4	537.5	539.4	539.6	539.1	539.4	538.8	538.8	538.8	539.0
Makeup Diffuser	534.0	534.0	534.1	534.0	534.1	534.1	534.1	534.0	534.1	534.1
U S Picketed Leads	534.0	534.0	534.2	534.0	534.1	534.1	534.1	534.0	534.1	534.1
D S Picketed Leads	534.0	534.0	534.2	534.0	534.1	534.1	534.1	534.0	534.1	534.1
Collection Channels										
North Shore	438.9	438.9	440.8	440.2	440.6	440.6	440.6	440.6	440.6	440.5
South Powerhouse	438.8	438.9	440.8	439.9	440.0	440.8	440.6	440.4	440.4	440.3
South Shore	438.7	438.5	441.1	440.3	440.6	440.8	440.0	440.2	440.7	440.3
Tailwater										
North Shore	437.3	437.3	439.6	438.8	439.4	439.4	439.3	440.1	439.1	439.0
South Powerhouse	437.2	437.3	439.7	438.9	439.3	439.3	439.3	439.1	439.1	438.9
South Shore	436.8	436.5	439.6	438.9	439.4	439.5	439.0	439.4	439.2	438.9
Entrance Weirs										
NSE-1	429.1	429.0	429.0	429.0	429.0	430.2	430.2	430.2	431.0	431.0
NSE-2	429.0	429.0	429.0	429.0	429.0	430.2	430.1	430.1	431.0	431.0
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0
Ladder Weirs	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1
Counting Station	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
South Fish Ladder										
Ladder Exit	0.1	0.1	0.0	0.1	0.1	0.2	0.0	0.1	0.0	0.1
Ladder Weirs	1.0	1.0	1.1	1.0	1.1	1.1	1.1	1.0	1.1	1.1
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.6	1.6	1.2	1.4	1.2	1.2	1.3	0.5	1.5	1.5
South Powerhouse	1.6	1.6	1.1	1.0	0.7	1.5	1.3	1.3	1.3	1.4
South Shore	1.9	2.0	1.5	1.4	1.2	1.3	1.0	0.8	1.5	1.4
Weir Depths										
NSE-1	8.2	8.3	10.6	9.8	10.4	9.2	9.1	9.9	8.1	8.0
NSE-2	8.3	8.3	10.6	9.8	10.4	9.2	9.2	10.0	8.1	8.0
SPE-1	5.2	5.3	7.7	6.9	7.3	7.3	7.3	7.1	7.1	6.9
SPE-2	5.2	5.3	7.7	6.9	7.3	7.3	7.3	7.1	7.1	6.9
SSE-1	5.8	5.5	8.6	7.9	8.4	8.5	8.0	8.4	8.2	7.9
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES
South Powerhouse	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
South Shore	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-1	SILL	SILL	YES	SILL	YES	YES	YES	YES	YES	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	17-Sep	19-Sep	20-Sep	21-Sep	24-Sep	26-Sep	27-Sep	28-Sep	1-Oct	4-Oct
CHAN'L VELOCITIES (N):	2.2	3.1	3.3	3.0	2.7	2.8	2.9	2.5	2.8	2.9
ELEVATIONS:										
North Fish Ladder										
Forebay	538.6	538.4	537.9	538.3	538.3	537.6	538.6	538.1	538.5	538.8
Exit Pool	538.5	538.3	537.8	538.1	538.2	537.5	538.4	537.8	538.4	538.8
Makeup Diffuser	534.1	534.0	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1
U S Picketed Leads	467.9	467.9	467.7	467.8	467.8	467.8	467.8	467.8	467.8	467.8
D S Picketed Leads	467.6	467.5	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6
South Fish Ladder										
Forebay	538.6	538.4	537.9	538.2	538.3	537.7	538.3	538.1	538.5	538.9
Exit Pool	538.6	538.3	537.8	538.1	538.2	537.5	538.2	538.0	538.4	538.8
Makeup Diffuser	534.1	534.0	534.1	534.0	534.1	534.1	534.1	534.1	534.0	534.0
U S Picketed Leads	534.1	534.0	534.1	534.0	534.1	534.1	534.1	534.1	534.0	534.0
D S Picketed Leads	534.1	534.0	534.1	534.0	534.1	534.1	534.1	534.1	534.0	534.0
Collection Channels								.		
North Shore	440.7	440.8	440.0	439.9	439.5	439.9	440.2	439.9	440.0	440.1
South Powerhouse	440.4	440.6	439.8	439.8	439.5	439.7	440.0	439.8	440.0	439.9
South Shore	440.5	440.5	439.9	440.0	439.6	439.7	440.0	440.0	439.8	439.7
Tailwater										
North Shore	439.1	439.5	438.3	438.5	438.0	438.4	438.8	438.7	438.5	438.7
South Powerhouse	439.1	439.3	438.3	438.5	438.0	438.2	438.7	438.5	438.5	438.8
South Shore	439.2	439.2	438.3	438.6	438.2	438.3	438.7	438.6	438.5	438.7
Entrance Weirs										
NSE-1	431.0	431.0	431.0	430.0	430.0	430.0	430.1	430.0	430.0	430.0
NSE-2	431.0	431.0	431.0	430.0	430.0	430.0	430.0	430.0	430.0	430.1
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.3	0.1	0.0
Ladder Weirs	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Counting Station	0.3	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
South Fish Ladder										
Ladder Exit	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
Ladder Weirs	1.1	1.0	1.1	1.0	1.1	1.1	1.1	1.1	1.0	1.0
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.6	1.3	1.7	1.4	1.5	1.5	1.4	1.2	1.5	1.4
South Powerhouse	1.3	1.3	1.5	1.3	1.5	1.5	1.3	1.3	1.5	1.1
South Shore	1.3	1.3	1.6	1.4	1.4	1.4	1.3	1.4	1.3	1.0
Weir Depths										
NSE-1	8.1	8.5	7.3	8.5	8.0	8.4	8.7	8.7	8.5	8.7
NSE-2	8.1	8.5	7.3	8.5	8.0	8.4	8.8	8.7	8.5	8.6
SPE-1	7.1	7.3	6.3	6.5	6.0	6.2	6.7	6.5	6.5	6.8
SPE-2	7.1	7.3	6.3	6.5	6.0	6.2	6.7	6.5	6.5	6.8
SSE-1	8.2	8.2	7.3	7.6	7.2	7.3	7.7	7.6	7.5	7.7
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Weir Depths										
NSE-1	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-1	YES	YES	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	6-Oct	7-Oct	9-Oct	11-Oct	14-Oct	16-Oct	20-Oct	22-Oct	23-Oct	27-Oct
CHAN'L VELOCITIES (N):	2.8	2.9	2.9	2.4	2.9	2.9	2.7	3.0	3.0	2.7
ELEVATIONS:										
North Fish Ladder										
Forebay	539.2	538.9	539.3	539.2	539.2	539.3	539.0	539.1	539.0	538.7
Exit Pool	539.2	538.9	539.1	539.2	539.1	539.2	538.8	539.0	539.0	538.6
Makeup Diffuser	534.0	534.1	534.1	534.1	534.1	534.0	534.0	534.1	534.1	534.1
U S Picketed Leads	467.9	467.8	467.7	467.7	467.8	467.8	467.8	467.8	467.8	467.8
D S Picketed Leads	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6
South Fish Ladder										
Forebay	539.3	538.9	539.3	539.3	539.1	539.3	539.0	539.1	539.0	538.7
Exit Pool	539.2	538.8	539.2	539.2	539.0	539.2	538.8	539.0	538.9	538.6
Makeup Diffuser	534.0	534.1	534.1	534.0	534.0	534.0	534.0	534.0	534.1	534.1
U S Picketed Leads	534.0	534.1	534.1	534.0	534.1	534.0	534.0	534.1	534.1	534.1
D S Picketed Leads	534.0	534.1	534.0	534.0	534.0	534.0	534.0	534.0	534.1	534.1
Collection Channels										
North Shore	440.1	440.2	440.2	440.6	440.4	440.2	440.6	440.4	440.5	440.4
South Powerhouse	440.0	440.0	440.0	440.6	440.3	440.0	440.5	440.3	440.5	440.4
South Shore	440.2	440.2	440.0	440.6	440.5	439.9	440.9	440.6	440.5	440.4
Tailwater										
North Shore	438.7	438.8	438.8	439.2	439.1	438.7	439.4	439.1	439.2	439.1
South Powerhouse	438.7	438.8	438.8	439.2	439.1	438.8	439.4	439.1	439.2	439.2
South Shore	438.8	438.7	438.7	439.2	439.1	438.8	439.4	439.2	439.1	439.1
Entrance Weirs										
NSE-1	430.0	430.0	430.0	430.1	430.0	430.0	430.0	430.0	430.0	430.0
NSE-2	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.0	0.0	0.2	0.0	0.1	0.1	0.2	0.1	0.0	0.1
Ladder Weirs	1.0	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.1
Counting Station	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
South Fish Ladder										
Ladder Exit	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Ladder Weirs	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1
Counting Station	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0
Collection Channels										
North Shore	1.4	1.4	1.4	1.4	1.3	1.5	1.2	1.3	1.3	1.3
South Powerhouse	1.3	1.2	1.2	1.4	1.2	1.2	1.1	1.2	1.3	1.2
South Shore	1.4	1.5	1.3	1.4	1.4	1.1	1.5	1.4	1.4	1.3
Weir Depths										
NSE-1	8.7	8.8	8.8	9.1	9.1	8.7	9.4	9.1	9.2	9.1
NSE-2	8.7	8.8	8.8	9.2	9.1	8.7	9.4	9.1	9.2	9.1
SPE-1	6.7	6.8	6.8	7.2	7.1	6.8	7.4	7.1	7.2	7.2
SPE-2	6.7	6.8	6.8	7.2	7.1	6.8	7.4	7.1	7.2	7.2
SSE-1	7.8	7.7	7.7	8.2	8.1	7.8	8.4	8.2	8.1	8.1
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-1	SILL	SILL	SILL	YES	YES	SILL	YES	YES	YES	YES
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	29-Oct	30-Oct	3-Nov	5-Nov	6-Nov	12-Oct	13-Nov	17-Nov	19-Nov	20-Nov
CHAN'L VELOCITIES (N):	2.2	2.5	2.8	3.0	2.6	2.3	2.4	2.4	2.0	2.4
ELEVATIONS:										
North Fish Ladder										
Forebay	539.2	538.9	539.4	539.1	539.0	539.4	539.1	539.2	539.2	539.1
Exit Pool	539.1	538.9	539.3	539.0	539.0	539.3	539.0	539.1	539.0	539.0
Makeup Diffuser	534.0	534.0	534.0	534.1	534.0	534.1	534.1	534.1	534.1	534.1
U S Picketed Leads	467.8	467.7	467.7	467.7	467.7	468.0	467.6	467.7	467.7	467.7
D S Picketed Leads	467.6	467.5	467.5	467.6	467.5	467.6	467.4	467.5	467.5	467.5
South Fish Ladder										
Forebay	539.2	539.0	539.4	539.0	539.0	539.4	539.2	539.3	539.3	539.0
Exit Pool	539.1	538.9	539.4	538.9	538.9	539.2	539.1	539.2	539.2	538.9
Makeup Diffuser	534.1	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
U S Picketed Leads	534.1	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.1	534.0
D S Picketed Leads	534.1	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
Collection Channels										
North Shore	440.5	440.4	440.6	440.5	440.4	439.5	440.1	440.2	440.0	439.9
South Powerhouse	440.4	440.1	440.6	440.5	440.2	439.5	440.0	440.0	439.8	439.8
South Shore	440.4	440.4	440.7	440.3	440.7	439.6	440.1	440.3	439.6	439.9
Tailwater										
North Shore	439.0	439.0	439.4	439.2	439.2	438.0	439.0	439.1	438.8	438.7
South Powerhouse	439.0	439.0	439.4	439.1	439.2	438.0	439.0	439.0	438.7	438.7
South Shore	439.0	438.9	439.5	438.9	439.5	438.5	438.8	439.0	438.4	438.6
Entrance Weirs										
NSE-1	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
NSE-2	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1
Ladder Weirs	1.0	1.0	1.0	1.1	1.0	1.1	1.1	1.1	1.1	1.1
Counting Station	0.2	0.2	0.2	0.1	0.2	0.4	0.2	0.2	0.2	0.2
South Fish Ladder										
Ladder Exit	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1
Ladder Weirs	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Collection Channels										
North Shore	1.5	1.4	1.2	1.3	1.2	1.5	1.1	1.1	1.2	1.2
South Powerhouse	1.4	1.1	1.2	1.4	1.0	1.5	1.0	1.0	1.1	1.1
South Shore	1.4	1.5	1.2	1.4	1.2	1.1	1.3	1.3	1.2	1.3
Weir Depths										
NSE-1	9.0	9.0	9.4	9.2	9.2	8.0	9.0	9.1	8.8	8.7
NSE-2	9.0	9.0	9.4	9.2	9.2	8.0	9.0	9.1	8.8	8.7
SPE-1	7.0	7.0	7.4	7.1	7.2	6.0	7.0	7.0	6.7	6.7
SPE-2	7.0	7.0	7.4	7.1	7.2	6.0	7.0	7.0	6.7	6.7
SSE-1	8.0	7.9	8.5	7.9	8.5	7.5	7.8	8.0	7.4	7.6
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-1	YES	SILL	YES	SILL	YES	SILL	SILL	YES	SILL	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	24-Nov	25-Nov	1-Dec	2-Dec	3-Dec	8-Dec	9-Dec	10-Dec	15-Dec	16-Dec
CHAN'L VELOCITIES (N):	2.6	2.4	2.5	2.8	2.6	2.9	2.7	2.9	3.0	2.9
ELEVATIONS:										
North Fish Ladder										
Forebay	538.8	539.1	539.1	539.3	539.1	538.7	539.3	539.3	539.1	539.3
Exit Pool	538.7	538.9	539.0	539.2	539.0	538.6	539.2	539.2	539.0	539.1
Makeup Diffuser	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1
U S Picketed Leads	467.8	467.6	467.7	467.8	467.7	467.7	467.7	467.8	467.7	467.6
D S Picketed Leads	467.5	467.5	467.5	467.6	467.5	467.5	467.5	467.5	467.5	467.3
South Fish Ladder										
Forebay	538.9	539.2	539.1	539.4	539.1	538.9	539.3	539.3	539.1	539.3
Exit Pool	538.9	539.2	539.1	539.2	539.1	538.9	539.2	539.2	539.0	539.2
Makeup Diffuser	534.1	534.1	534.1	534.0	534.0	534.0	534.1	534.1	534.1	534.0
U S Picketed Leads	534.1	534.1	534.1	534.0	534.0	534.0	534.1	534.1	534.1	534.0
D S Picketed Leads	534.1	534.1	534.1	534.0	534.0	534.0	534.1	534.1	534.1	534.0
Collection Channels										
North Shore	440.4	440.5	440.1	440.5	440.5	440.2	439.8	440.2	440.3	440.5
South Powerhouse	440.3	440.5	440.1	440.5	440.5	440.2	439.7	440.1	440.5	440.4
South Shore	440.4	440.6	440.4	440.7	440.2	439.5	439.9	440.8	440.5	440.5
Tailwater										
North Shore	439.3	439.3	439.0	439.5	439.5	438.9	438.6	438.9	438.6	439.2
South Powerhouse	439.3	439.3	439.0	439.3	439.4	439.0	438.6	438.7	439.0	439.0
South Shore	439.1	439.4	439.2	439.4	439.0	438.6	438.6	439.5	439.1	439.1
Entrance Weirs										
NSE-1	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
NSE-2	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:										
North Fish Ladder										
Ladder Exit	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Ladder Weirs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Counting Station	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3
South Fish Ladder										
Ladder Exit	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.1	0.1	0.1
Ladder Weirs	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.0
Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels										
North Shore	1.1	1.2	1.1	1.0	1.0	1.3	1.2	1.3	1.7	1.3
South Powerhouse	1.0	1.2	1.1	1.2	1.1	1.2	1.1	1.4	1.5	1.4
South Shore	1.3	1.2	1.2	1.3	1.2	0.9	1.3	1.3	1.4	1.4
Weir Depths										
NSE-1	9.3	9.3	9.0	9.5	9.5	8.9	8.6	8.9	8.6	9.2
NSE-2	9.3	9.3	9.0	9.5	9.5	8.9	8.6	8.9	8.6	9.2
SPE-1	7.3	7.3	7.0	7.3	7.4	7.0	6.6	6.7	7.0	7.0
SPE-2	7.3	7.3	7.0	7.3	7.4	7.0	6.6	6.7	7.0	7.0
SSE-1	8.1	8.4	8.2	8.4	8.0	7.6	7.6	8.5	8.1	8.1
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:										
Channel Velocities	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Differentials										
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
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
Collection Channels										
North Shore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
South Shore	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES
Weir Depths										
NSE-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NSE-2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-1	YES	YES	YES	YES	YES	SILL	SILL	YES	YES	YES
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

APPENDIX 1 (CONTINUED). LOWER MONUMENTAL ADULT FISHWAY INSPECTIONS 2014

DATES:	17-Dec	22-Dec	23-Dec	29-Dec	30-Dec
CHAN'L VELOCITIES (N):	2.9	2.0	2.6	1.6	2.7
ELEVATIONS:					
North Fish Ladder					
Forebay	539.6	538.9	539.3	538.7	539.4
Exit Pool	539.3	538.7	539.1	538.7	539.3
Makeup Diffuser	534.1	534.1	534.1	534.1	534.1
U S Picketed Leads	467.7	467.7	467.7	467.7	467.8
D S Picketed Leads	467.6	467.6	467.6	467.5	467.6
South Fish Ladder					
Forebay	539.7	538.9	539.3	538.7	539.4
Exit Pool	539.6	538.8	539.2	538.7	539.3
Makeup Diffuser	534.1	534.1	534.1	534.0	534.0
U S Picketed Leads	534.1	534.1	534.1	534.0	534.0
D S Picketed Leads	534.1	534.1	534.1	534.0	534.0
Collection Channels					
North Shore	440.1	439.2	440.0	439.5	440.5
South Powerhouse	439.8	439.2	440.0	439.2	439.9
South Shore	440.1	439.1	439.7	439.1	440.3
Tailwater					
North Shore	438.9	438.0	439.0	437.9	439.5
South Powerhouse	438.7	438.0	438.7	437.8	439.3
South Shore	438.7	437.8	438.6	437.8	439.5
Entrance Weirs					
NSE-1	430.0	430.0	430.0	430.0	430.0
NSE-2	430.0	430.0	430.0	430.0	430.0
SPE-1	432.0	432.0	432.0	432.0	432.0
SPE-2	432.0	432.0	432.0	432.0	432.0
SSE-1	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:					
North Fish Ladder					
Ladder Exit	0.3	0.2	0.2	0.0	0.1
Ladder Weirs	1.1	1.1	1.1	1.1	1.1
Counting Station	0.1	0.1	0.1	0.2	0.2
South Fish Ladder					
Ladder Exit	0.1	0.1	0.1	0.0	0.1
Ladder Weirs	1.1	1.1	1.1	1.0	1.0
Counting Station	0.0	0.0	0.0	0.0	0.0
Collection Channels					
North Shore	1.2	1.2	1.0	1.6	1.0
South Powerhouse	1.1	1.2	1.3	1.4	0.6
South Shore	1.4	1.3	1.1	1.3	0.8
Weir Depths					
NSE-1	8.9	8.0	9.0	7.9	9.5
NSE-2	8.9	8.0	9.0	7.9	9.5
SPE-1	6.7	6.0	6.7	5.8	7.3
SPE-2	6.7	6.0	6.7	5.8	7.3
SSE-1	7.7	6.8	7.6	6.8	8.5
SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:					
Channel Velocities	YES	YES	YES	YES	YES
Differentials					
North Fish Ladder					
Ladder Exit	YES	YES	YES	YES	YES
Ladder Weirs	YES	YES	YES	YES	YES
Counting Station	YES	YES	YES	YES	YES
South Fish Ladder					
Ladder Exit	YES	YES	YES	YES	YES
Ladder Weirs	YES	YES	YES	YES	YES
Counting Station	YES	YES	YES	YES	YES
Collection Channels					
North Shore	YES	YES	YES	YES	YES
South Powerhouse	YES	YES	YES	YES	NO
South Shore	YES	YES	YES	YES	NO
Weir Depths					
NSE-1	YES	YES	YES	NO	YES
NSE-2	YES	YES	YES	NO	YES
SPE-1	SILL	SILL	SILL	SILL	SILL
SPE-2	SILL	SILL	SILL	SILL	SILL
SSE-1	SILL	SILL	SILL	SILL	YES
SSE-2 (feet above sill)	YES	YES	YES	YES	YES

Max	Min							
539.9	537.2							
539.6	537.1							
534.2	534.0	NSE 1	7.9	7.3	7.9	7.7	7.3	
468.9	467.6	NSE 2	7.9	7.3	7.9	7.7	7.3	
468.6	467.3							
540.0	537.2							
539.8	537.1							
534.2	534.0							
534.2	534.0							
534.2	534.0							
444.5	438.5							
444.4	438.4							
443.7	437.4							
443.5	436.9							
443.2	436.6							
442.6	436.3							
434.1	429.0							
434.1	429.0							
434.9	432.0							
434.9	432.0							
433.0	431.0							
6.0	6.0							
1.4	0.0							
1.2	1.0							
0.4	0.0							
0.3	0.0							
1.2	1.0							
0.2	0.0							
2.0	0.5							
2.0	0.6							
2.0	0.0							
12.0	7.0							
12.1	7.0							
10.5	4.6							
10.5	4.6							
11.6	5.3							
6.0	6.0							

							out of depth	.01-.1	.11-.2	.2 up	
7.6	7.6	7	7.5	7.7	7.6	7.8	**12**		2	1	9
7.6	7.6	7	7.5	7.6	7.7	7.9	**12**		3	0	9

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Columns in Table	**This table automatically calculates all results. Just copy the data (only) into the Word file table.**								
1	2	3	4	5	6	7	8	9	Rows in Table

CRITERIA POINTS: YES	(Output = 0, 1, or NA)									
Channel Velocities	1	1	1	1	0	1	1	1	1	1
Differentials										
North Fish Ladder										
Ladder Exit	0	0	0	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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	0	1	1	1	0	0	1
South Shore	0	0	0	0	0	1	1	0	1	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	0
NSE-2	1	1	1	1	1	1	1	1	1	0
SPE-1	1	0	0	1	1	1	0	1	1	0
SPE-2	1	0	0	1	1	1	0	1	1	0
SSE-1	1	1	1	1	1	1	1	1	1	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO	(Output = 0, 1, or NA)									
Channel Velocities	0	0	0	0	1	0	0	0	0	0
Differentials										
North Fish Ladder										
Ladder Exit	1	1	1	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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	1	0	0	0	1	1	0
South Shore	1	1	1	1	1	0	0	1	0	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	1
NSE-2	0	0	0	0	0	0	0	0	0	1
SPE-1	0	0	0	0	0	0	1	0	0	0
SPE-2	0	0	0	0	0	0	1	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	1
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL	(Output = 0, 1, or NA)									
Weir Depths										
NSE-1										
NSE-2										
SPE-1	0	1	1	0	0	0	0	0	0	1
SPE-2	0	1	1	0	0	0	0	0	0	1
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)										

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

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicable.

CRITERIA POINTS: YES	(Output = 0, 1, or NA)									(Output = 0
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	1	1	1	1	1	1	0
South Shore	1	1	0	1	1	1	0	1	0	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	1
NSE-2	1	1	1	1	1	1	1	1	1	1
SPE-1	0	0	0	0	0	1	1	1	1	1
SPE-2	0	0	0	0	0	1	1	1	1	1
SSE-1	1	1	1	1	1	1	1	1	1	1
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO	(Output = 0, 1, or NA)									(Output = 0
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	1
South Shore	0	0	1	0	0	0	1	0	1	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	0
NSE-2	0	0	0	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL	(Output = 0, 1, or NA)									(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	0	0	0	0	0
SPE-2	1	1	1	1	1	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)		
Ladder Exit	Not applicable.	Not applicab

CRITERIA POINTS: YES										(Output = 0
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	1	1	1	1	1	1	1
South Shore	1	1	1	1	1	0	0	1	0	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	1
NSE-2	1	1	1	1	1	1	1	1	1	1
SPE-1	0	0	0	0	0	0	1	0	0	0
SPE-2	0	0	0	0	0	0	1	0	0	0
SSE-1	0	0	0	0	1	1	1	0	0	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										(Output = 0
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	1	1	0	1	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	0
NSE-2	0	0	0	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	1	0	1	1	1
SPE-2	1	1	1	1	1	1	0	1	1	1
SSE-1	1	1	1	1	0	0	0	1	1	1
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicab

CRITERIA POINTS: YES										(Output = 0
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	1	1	1	0	1	1	1
South Shore	1	1	1	1	1	1	1	1	1	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	1
NSE-2	1	1	1	1	1	1	1	1	1	1
SPE-1	0	0	0	0	0	0	1	0	0	0
SPE-2	0	0	0	0	0	0	1	0	0	0
SSE-1	1	0	0	0	0	1	1	0	1	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										(Output = 0
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	1	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	0
NSE-2	0	0	0	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	1	0	1	1	1
SPE-2	1	1	1	1	1	1	0	1	1	1
SSE-1	0	1	1	1	1	0	0	1	0	1
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicat

CRITERIA POINTS: YES										(Output = 0
Channel Velocities	0	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	0	1	1	1	1	1	0	1
South Powerhouse	1	1	0	1	1	1	1	1	0	1
South Shore	1	1	1	1	1	1	1	1	1	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	1
NSE-2	1	1	1	1	1	1	1	1	1	1
SPE-1	0	1	1	0	0	0	0	1	1	1
SPE-2	0	1	1	0	0	0	0	1	1	1
SSE-1	0	1	1	0	0	1	0	1	1	1
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										(Output = 0
Channel Velocities	1	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	1	0	0	0	0	0	1	0
South Powerhouse	0	0	1	0	0	0	0	0	1	0
South Shore	0	0	0	0	0	0	0	0	0	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	0
NSE-2	0	0	0	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	0	0	1	1	1	1	0	0	0
SPE-2	1	0	0	1	1	1	1	0	0	0
SSE-1	1	0	0	1	1	0	1	0	0	0
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicab

CRITERIA POINTS: YES										(Output = 0
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	0	1	1	1	1	1	1	0
South Powerhouse	0	1	0	1	1	0	1	1	1	0
South Shore	1	1	1	1	1	0	0	1	1	0
Weir Depths										
NSE-1	1	1	1	1	1	1	1	0	1	1
NSE-2	1	1	1	1	1	1	1	0	1	1
SPE-1	1	1	1	1	1	1	1	0	1	1
SPE-2	1	1	1	1	1	1	1	0	1	1
SSE-1	1	1	1	1	1	1	1	1	1	1
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										(Output = 0
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	1	0	0	0	0	0	0	1
South Powerhouse	1	0	1	0	0	1	0	0	0	1
South Shore	0	0	0	0	0	1	1	0	0	1
Weir Depths										
NSE-1	0	0	0	0	0	0	0	1	0	0
NSE-2	0	0	0	0	0	0	0	1	0	0
SPE-1	0	0	0	0	0	0	0	1	0	0
SPE-2	0	0	0	0	0	0	0	1	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicab

CRITERIA POINTS: YES										(Output = 0
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	0	1	1	0	1	1	1	1	0
South Powerhouse	1	1	1	1	0	1	1	1	1	0
South Shore	1	1	1	0	1	0	1	1	1	1
Weir Depths										
NSE-1	1	1	1	1	1	1	0	0	0	1
NSE-2	1	1	1	1	1	1	0	0	0	1
SPE-1	1	1	1	1	1	0	0	0	0	0
SPE-2	1	1	1	1	1	0	0	0	0	0
SSE-1	1	1	1	1	1	1	1	0	0	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										(Output = 0
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	1	0	0	1	0	0	0	0	1
South Powerhouse	0	0	0	0	1	0	0	0	0	1
South Shore	0	0	0	1	0	1	0	0	0	0
Weir Depths										
NSE-1	0	0	0	0	0	0	1	1	1	0
NSE-2	0	0	0	0	0	0	1	1	1	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	0	0	0	0	0	1	1	1	1	1
SPE-2	0	0	0	0	0	1	1	1	1	1
SSE-1	0	0	0	0	0	0	0	1	1	1
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicab

CRITERIA POINTS: YES										(Output = 0
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	0	1	1	1	1
South Powerhouse	1	1	1	1	1	0	1	1	0	1
South Shore	0	1	1	1	0	1	1	1	1	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	1
NSE-2	1	1	1	1	1	1	1	1	1	1
SPE-1	0	0	0	0	0	1	0	0	0	0
SPE-2	0	0	0	0	0	1	0	0	0	0
SSE-1	0	0	0	0	0	1	0	0	0	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										(Output = 0
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	1	0	0	0	0
South Powerhouse	0	0	0	0	0	1	0	0	1	0
South Shore	1	0	0	0	1	0	0	0	0	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	0
NSE-2	0	0	0	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	0	1	1	1	1
SPE-2	1	1	1	1	1	0	1	1	1	1
SSE-1	1	1	1	1	1	0	1	1	1	1
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicat

CRITERIA POINTS: YES										(Output = 0
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	0	1	0	1	1	0	1	1	1	1
South Shore	0	1	1	1	1	1	1	1	0	1
Weir Depths										
NSE-1	1	0	1	1	1	1	1	0	1	0
NSE-2	1	0	1	1	1	1	1	0	1	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										(Output = 0
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	1	0	1	0	0	1	0	0	0	0
South Shore	1	0	0	0	0	0	0	0	1	0
Weir Depths										
NSE-1	0	1	0	0	0	0	0	1	0	1
NSE-2	0	1	0	0	0	0	0	1	0	1
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	1	1	1	1	1
SPE-2	1	1	1	1	1	1	1	1	1	1
SSE-1	1	1	1	1	1	1	1	1	1	1
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicat

CRITERIA POINTS: YES										(Output = 0
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	0	1	1	1	1	1	1
South Shore	1	1	1	1	0	1	1	1	1	1
Weir Depths										
NSE-1	0	1	1	1	1	1	1	0	1	1
NSE-2	0	1	1	1	1	1	1	0	1	1
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										(Output = 0
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	1	0	0	0	0	0	0
South Shore	0	0	0	0	1	0	0	0	0	0
Weir Depths										
NSE-1	1	0	0	0	0	0	0	1	0	0
NSE-2	1	0	0	0	0	0	0	1	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	1	1	1	1	1
SPE-2	1	1	1	1	1	1	1	1	1	1
SSE-1	1	1	1	1	1	1	1	1	1	1
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicab

CRITERIA POINTS: YES										(Output = 0
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	1	1	1	1	1	1	1
South Shore	1	1	1	1	1	1	1	1	1	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	1
NSE-2	1	1	1	1	1	1	1	1	1	1
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										(Output = 0
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	0
NSE-2	0	0	0	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	1	1	1	1	1
SPE-2	1	1	1	1	1	1	1	1	1	1
SSE-1	1	1	1	1	1	1	1	1	1	1
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicat

CRITERIA POINTS: YES										(Output = 0
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	0	1	1
South Powerhouse	1	1	1	1	0	1	1	1	1	1
South Shore	1	1	1	1	1	1	1	0	1	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	1
NSE-2	1	1	1	1	1	1	1	1	1	1
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	1	0	1	1	1	1	1	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										(Output = 0
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	1	0	0
South Powerhouse	0	0	0	0	1	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	1	0	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	0
NSE-2	0	0	0	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										(Output = 0
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	1	1	1	1	1
SPE-2	1	1	1	1	1	1	1	1	1	1
SSE-1	1	1	0	1	0	0	0	0	0	1
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicat

CRITERIA POINTS: YES										
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	1	1	1	1	1	1	1
South Shore	1	1	1	1	1	1	1	1	1	1
Weir Depths										
NSE-1	1	1	0	1	1	1	1	1	1	1
NSE-2	1	1	0	1	1	1	1	1	1	1
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	1	1	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Weir Depths										
NSE-1	0	0	1	0	0	0	0	0	0	0
NSE-2	0	0	1	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	1	1	1	1	1
SPE-2	1	1	1	1	1	1	1	1	1	1
SSE-1	0	0	1	1	1	1	1	1	1	1
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)
Ladder Exit

CRITERIA POINTS: YES										
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	1	1	1	1	1	1	1
South Shore	1	1	1	1	1	1	1	1	1	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	1
NSE-2	1	1	1	1	1	1	1	1	1	1
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	1	1	0	1	1	1	1
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	0
NSE-2	0	0	0	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	1	1	1	1	1
SPE-2	1	1	1	1	1	1	1	1	1	1
SSE-1	1	1	1	0	0	1	0	0	0	0
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)
Ladder Exit

CRITERIA POINTS: YES										
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	1	1	1	1	1	1	1
South Shore	1	1	1	1	1	1	1	1	1	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	1
NSE-2	1	1	1	1	1	1	1	1	1	1
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	1	0	1	0	1	0	0	1	0	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	0
NSE-2	0	0	0	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	1	1	1	1	1
SPE-2	1	1	1	1	1	1	1	1	1	1
SSE-1	0	1	0	1	0	1	1	0	1	1
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)
Ladder Exit

CRITERIA POINTS: YES										
Channel Velocities	1	1	1	1	1	1	1	1	1	1
Differentials										
North Fish Ladder										
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	1	1
South Fish Ladder										
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	1	1
Collection Channels										
North Shore	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	1	1	1	1	1	1	1
South Shore	1	1	1	1	1	0	1	1	1	1
Weir Depths										
NSE-1	1	1	1	1	1	1	1	1	1	1
NSE-2	1	1	1	1	1	1	1	1	1	1
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	1	1	1	1	1	0	0	1	1	1
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1

CRITERIA POINTS: NO										
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials										
North Fish Ladder										
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	0	0
South Fish Ladder										
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	0	0
Collection Channels										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	1	0	0	0	0
Weir Depths										
NSE-1	0	0	0	0	0	0	0	0	0	0
NSE-2	0	0	0	0	0	0	0	0	0	0
SPE-1	0	0	0	0	0	0	0	0	0	0
SPE-2	0	0	0	0	0	0	0	0	0	0
SSE-1	0	0	0	0	0	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0	0	0	0	0	0

CRITERIA POINTS: SILL										
Weir Depths										
NSE-1										
NSE-2										
SPE-1	1	1	1	1	1	1	1	1	1	1
SPE-2	1	1	1	1	1	1	1	1	1	1
SSE-1	0	0	0	0	0	1	1	0	0	0
SSE-2 (feet above sill)										

North Ladder Differentials (more than 0.2 too low)
Ladder Exit

CRITERIA POINTS: YES					
Channel Velocities	1	1	1	1	1
Differentials					
North Fish Ladder					
Ladder Exit	1	1	1	1	1
Ladder Weirs	1	1	1	1	1
Counting Station	1	1	1	1	1
South Fish Ladder					
Ladder Exit	1	1	1	1	1
Ladder Weirs	1	1	1	1	1
Counting Station	1	1	1	1	1
Collection Channels					
North Shore	1	1	1	1	1
South Powerhouse	1	1	1	1	0
South Shore	1	1	1	1	0
Weir Depths					
NSE-1	1	1	1	0	1
NSE-2	1	1	1	0	1
SPE-1	0	0	0	0	0
SPE-2	0	0	0	0	0
SSE-1	0	0	0	0	1
SSE-2 (feet above sill)	1	1	1	1	1

CRITERIA POINTS: NO					
Channel Velocities	0	0	0	0	0
Differentials					
North Fish Ladder					
Ladder Exit	0	0	0	0	0
Ladder Weirs	0	0	0	0	0
Counting Station	0	0	0	0	0
South Fish Ladder					
Ladder Exit	0	0	0	0	0
Ladder Weirs	0	0	0	0	0
Counting Station	0	0	0	0	0
Collection Channels					
North Shore	0	0	0	0	0
South Powerhouse	0	0	0	0	1
South Shore	0	0	0	0	1
Weir Depths					
NSE-1	0	0	0	1	0
NSE-2	0	0	0	1	0
SPE-1	0	0	0	0	0
SPE-2	0	0	0	0	0
SSE-1	0	0	0	0	0
SSE-2 (feet above sill)	0	0	0	0	0

CRITERIA POINTS: SILL					
Weir Depths					
NSE-1					
NSE-2					
SPE-1	1	1	1	1	1
SPE-2	1	1	1	1	1
SSE-1	1	1	1	1	0
SSE-2 (feet above sill)					

North Ladder Differentials (more than 0.2 too low)
Ladder Exit

CRITERIA POINTS: YES	No. of YES	Total No. of Inspections	% YES
Channel Velocities	163	165	98.8
Differentials			
North Fish Ladder			
Ladder Exit	162	165	98.2
Ladder Weirs	165	165	100.0
Counting Station	165	165	100.0
South Fish Ladder			
Ladder Exit	165	165	100.0
Ladder Weirs	165	165	100.0
Counting Station	165	165	100.0
Collection Channels			
North Shore	156	165	94.5
South Powerhouse	144	165	87.3
South Shore	140	165	84.8
Weir Depths			
NSE-1	153	165	92.7
NSE-2	153	165	92.7
SPE-1	33	165	20.0
SPE-2	33	165	20.0
SSE-1	77	165	46.7
SSE-2 (feet above sill)	165	165	100.0

CRITERIA POINTS: NO	No. of NO	% NO
Channel Velocities	2	1.2
Differentials		
North Fish Ladder		
Ladder Exit	3	1.8
Ladder Weirs	0	0.0
Counting Station	0	0.0
South Fish Ladder		
Ladder Exit	0	0.0
Ladder Weirs	0	0.0
Counting Station	0	0.0
Collection Channels		
North Shore	9	5.5
South Powerhouse	21	12.7
South Shore	25	15.2
Weir Depths		
NSE-1	12	7.3
NSE-2	12	7.3
SPE-1	2	1.2
SPE-2	2	1.2
SSE-1	1	0.6
SSE-2 (feet above sill)	0	0.0

CRITERIA POINTS: SILL	No. of SILL	% SILL
Weir Depths		
NSE-1	Not Applic.	Not Applic.
NSE-2	Not Applic.	Not Applic.
SPE-1	130	78.8
SPE-2	130	78.8
SSE-1	87	52.7
SSE-2 (feet above sill)	Not Applic.	Not Applic.

Numbers in green below should add to numbers in green above.
Numbers in yellow below should add to numbers in yellow above.
Numbers in blue below should add to numbers in blue above.

North Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicable.

LOWER MONUMENTAL Criteria and Locations	No. in Criteria/ No. on Sill/ No. of Inspections	% In Criteria/ % On Sill	----------Not Enough Depth---------- No./% Within 0.01-0.1 Foot	No./% Within 0.11-0.2 Foot	No./% >0.2 Foot	----------Too Much Depth---------- No./% Within 0.01-0.1 Foot	No./% Within 0.11-0.2 Foot	No./% >0.2 Foot
Channel Velocities	163	98.8	***	***	***	***	***	***
	***	***	***	***	***	***	***	***
	165							
Differentials								
North Fish Ladder								
Ladder Exit	162	98.2	***	***	***	0	1	2
	***	***	***	***	***	0.0	0.6	1.2
	165							
Ladder Weirs	165	100.0	0	0	0	0	0	0
	***	***	0.0	0.0	0.0	0.0	0.0	0.0
	165							
Counting Station	165	100.0	***	***	***	0	0	0
	***	***	***	***	***	0.0	0.0	0.0
	165							
South Fish Ladder								
Ladder Exit	165	100.0	***	***	***	0	0	0
	***	***	***	***	***	0.0	0.0	0.0
	165							
Ladder Weirs	165	100.0	0	0	0	0	0	0
	***	***	0.0	0.0	0.0	0.0	0.0	0.0
	165							
Counting Station	165	100.0	***	***	***	0	0	0
	***	***	***	***	***	0.0	0.0	0.0
	165							
Collection Channels								
North Shore	156	94.5	3	3	3	0	0	0
	***	***	1.8	1.8	1.8	0.0	0.0	0.0
	165							
South Powerhouse	144	87.3	8	5	8	0	0	0
	***	***	4.8	3.0	4.8	0.0	0.0	0.0
	165							
South Shore	140	84.8	8	8	9	0	0	0
	***	***	4.8	4.8	5.5	0.0	0.0	0.0
	165							
Weir Depths								
NSE-1	153	92.7	0	3	9	***	***	***
	Not Applic.	***	0.0	1.8	5.5	***	***	***
	165							
NSE-2	153	92.7	1	2	9	***	***	***
	Not Applic.	***	0.6	1.2	5.5	***	***	***
	165							
SPE-1	33	20.0	0	0	2	***	***	***
	130	78.8	0.0	0.0	1.2	***	***	***
	165							
SPE-2	33	20.0	0	0	2	***	***	***
	130	78.8	0.0	0.0	1.2	***	***	***
	165							
SSE-1	77	46.7	0	0	1	***	***	***
	87	52.7	0.0	0.0	0.6	***	***	***
	165							
SSE-2 (feet above sill)	165	100.0	0	0	0	***	***	***
	Not Applic.	***	0.0	0.0	0.0	***	***	***
	165							

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)										
Ladder Exit	Not applicable.									
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)										
Ladder Exit	Not applicable.									
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)										
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	0	0
North Ladder Differentials (0.11 - 0.2 too high)										
Ladder Exit	0	1	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	0	0
North Ladder Differentials (more than 0.2 too high)										
Ladder Exit	1	0	1	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	0	0
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
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
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
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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	1	1	1	1	1	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	1	0	0	0	1	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	1	0
South Shore	0	0	0	0	0	0	0	1	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	1
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	1
SPE-1 **(<7.80)**	0	0	0	0	0	0	1	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	1	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	1
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.									Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit	Not applicable.									Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.									Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit	Not applicable.									Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.									Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit	Not applicable.									Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.									Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit	Not applicable.									Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.									Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit	Not applicable.									Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.									Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	1	0	0	0	1	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	1
South Shore	0	0	0	0	0	0	0	0	1	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	1	1	0	1	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	1	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	1	0	0	0	0	0	1	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	1	0	0	0	0	0	1	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	1	0	0	0	0	0	0	0
South Powerhouse	1	0	1	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	1	0	0	1
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	1
South Powerhouse	0	0	0	0	0	1	0	0	0	1
South Shore	0	0	0	0	0	1	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	1	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	1	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	1	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	1	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	1
South Powerhouse	0	0	0	0	0	0	0	0	0	1
South Shore	0	0	0	0	0	1	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	1	0	0	0	0	0
South Shore	0	0	0	1	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	1	0	0	1	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	1	1	1	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	1	1	1	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	1	0	0	0	0
South Powerhouse	0	0	0	0	0	1	0	0	0	0
South Shore	1	0	0	0	1	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	1	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	1	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	1	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	1	0	0	1	0	0	0	0
South Shore	1	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	1	0	0	0	0	0	1	0	1
NSE-2 **(<7.80)**	0	1	0	0	0	0	0	1	0	1
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	1	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	1	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	1	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	1	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	1	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	1	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										Not applicab
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										Not applicab
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	1	0	0
South Powerhouse	0	0	0	0	1	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	1	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	1	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	1	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**	Not Applic.									

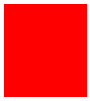
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**										
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**										
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**										

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**										
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**										
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**										

Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
North Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.11 - 0.2 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.01 - 0.1 too low)										
Ladder Exit										
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station										
South Ladder Differentials (0.01 - 0.1 too high)										
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	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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (0.90 - 0.99):										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	1	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Shore	0	0	0	0	0	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)										
NSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**										
Entrance Weir Depths (0.11 - 0.2 too low)										
NSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**										
Entrance Weir Depths (0.01 - 0.1 too low)										
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**										

Ladder Weirs	0	0	0	0	0
Counting Station					
North Ladder Differentials (0.11 - 0.2 too low)					
Ladder Exit					
Ladder Weirs	0	0	0	0	0
Counting Station					
North Ladder Differentials (0.01 - 0.1 too low)					
Ladder Exit					
Ladder Weirs	0	0	0	0	0
Counting Station					
North Ladder Differentials (0.01 - 0.1 too high)					
Ladder Exit	0	0	0	0	0
Ladder Weirs	0	0	0	0	0
Counting Station	0	0	0	0	0
North Ladder Differentials (0.11 - 0.2 too high)					
Ladder Exit	0	0	0	0	0
Ladder Weirs	0	0	0	0	0
Counting Station	0	0	0	0	0
North Ladder Differentials (more than 0.2 too high)					
Ladder Exit	0	0	0	0	0
Ladder Weirs	0	0	0	0	0
Counting Station	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low)					
Ladder Exit					
Ladder Weirs	0	0	0	0	0
Counting Station					
South Ladder Differentials (0.11 - 0.2 too low)					
Ladder Exit					
Ladder Weirs	0	0	0	0	0
Counting Station					
South Ladder Differentials (0.01 - 0.1 too low)					
Ladder Exit					
Ladder Weirs	0	0	0	0	0
Counting Station					
South Ladder Differentials (0.01 - 0.1 too high)					
Ladder Exit	0	0	0	0	0
Ladder Weirs	0	0	0	0	0
Counting Station	0	0	0	0	0
South Ladder Differentials (0.11 - 0.2 too high)					
Ladder Exit	0	0	0	0	0
Ladder Weirs	0	0	0	0	0
Counting Station	0	0	0	0	0
South Ladder Differentials (more than 0.2 too high)					
Ladder Exit	0	0	0	0	0
Ladder Weirs	0	0	0	0	0
Counting Station	0	0	0	0	0
Channel/Tailwater Differentials (<0.80)					
North Shore	0	0	0	0	0
South Powerhouse	0	0	0	0	1
South Shore	0	0	0	0	0
Channel/Tailwater Differentials (0.80 - 0.89)					
North Shore	0	0	0	0	0
South Powerhouse	0	0	0	0	0
South Shore	0	0	0	0	1
Channel/Tailwater Differentials (0.90 - 0.99):					
North Shore	0	0	0	0	0
South Powerhouse	0	0	0	0	0
South Shore	0	0	0	0	0
Channel/Tailwater Differentials (2.01 - 2.10)					
North Shore	0	0	0	0	0
South Powerhouse	0	0	0	0	0
South Shore	0	0	0	0	0
Channel/Tailwater Differentials (2.11 - 2.20)					
North Shore	0	0	0	0	0
South Powerhouse	0	0	0	0	0
South Shore	0	0	0	0	0
Channel/Tailwater Differentials (>2.20)					
North Shore	0	0	0	0	0
South Powerhouse	0	0	0	0	0
South Shore	0	0	0	0	0
Entrance Weir Depths (more than 0.2 too low)					
NSE-1 **(<7.80)**	0	0	0	0	0
NSE-2 **(<7.80)**	0	0	0	0	0
SPE-1 **(<7.80)**	0	0	0	0	0
SPE-2 **(<7.80)**	0	0	0	0	0
SSE-1 **(<7.80)**	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**					
Entrance Weir Depths (0.11 - 0.2 too low)					
NSE-1 **(7.80 - 7.89)**	0	0	0	1	0
NSE-2 **(7.80 - 7.89)**	0	0	0	1	0
SPE-1 **(7.80 - 7.89)**	0	0	0	0	0
SPE-2 **(7.80 - 7.89)**	0	0	0	0	0
SSE-1 **(7.80 - 7.89)**	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**					
Entrance Weir Depths (0.01 - 0.1 too low)					
NSE-1 **(7.90 - 7.99)**	0	0	0	0	0
NSE-2 **(7.90 - 7.99)**	0	0	0	0	0
SPE-1 **(7.90 - 7.99)**	0	0	0	0	0
SPE-2 **(7.90 - 7.99)**	0	0	0	0	0
SSE-1 **(7.90 - 7.99)**	0	0	0	0	0
SSE-2 **(set 6 ft above sill)**					

Ladder Weirs	0
Counting Station	Not applicable.
North Ladder Differentials (0.11 - 0.2 too low)	
Ladder Exit	Not applicable.
Ladder Weirs	0
Counting Station	Not applicable.
North Ladder Differentials (0.01 - 0.1 too low)	
Ladder Exit	Not applicable.
Ladder Weirs	0
Counting Station	Not applicable.
North Ladder Differentials (0.01 - 0.1 too high)	
Ladder Exit	0
Ladder Weirs	0
Counting Station	0
North Ladder Differentials (0.11 - 0.2 too high)	
Ladder Exit	1
Ladder Weirs	0
Counting Station	0
North Ladder Differentials (more than 0.2 too high)	
Ladder Exit	2
Ladder Weirs	0
Counting Station	0
South Ladder Differentials (more than 0.2 too low)	
Ladder Exit	Not applicable.
Ladder Weirs	0
Counting Station	Not applicable.
South Ladder Differentials (0.11 - 0.2 too low)	
Ladder Exit	Not applicable.
Ladder Weirs	0
Counting Station	Not applicable.
South Ladder Differentials (0.01 - 0.1 too low)	
Ladder Exit	Not applicable.
Ladder Weirs	0
Counting Station	Not applicable.
South Ladder Differentials (0.01 - 0.1 too high)	
Ladder Exit	0
Ladder Weirs	0
Counting Station	0
South Ladder Differentials (0.11 - 0.2 too high)	
Ladder Exit	0
Ladder Weirs	0
Counting Station	0
South Ladder Differentials (more than 0.2 too high)	
Ladder Exit	0
Ladder Weirs	0
Counting Station	0
Channel/Tailwater Differentials (<0.80)	
North Shore	3
South Powerhouse	8
South Shore	9
Channel/Tailwater Differentials (0.80 - 0.89)	
North Shore	3
South Powerhouse	5
South Shore	8
Channel/Tailwater Differentials (0.90 - 0.99):	
North Shore	3
South Powerhouse	8
South Shore	8
Channel/Tailwater Differentials (2.01 - 2.10)	
North Shore	0
South Powerhouse	0
South Shore	0
Channel/Tailwater Differentials (2.11 - 2.20)	
North Shore	0
South Powerhouse	0
South Shore	0
Channel/Tailwater Differentials (>2.20)	
North Shore	0
South Powerhouse	0
South Shore	0
Entrance Weir Depths (more than 0.2 too low)	
NSE-1 (<7.80)	9
NSE-2 (<7.80)	9
SPE-1 (<7.80)	2
SPE-2 (<7.80)	2
SSE-1 (<7.80)	1
SSE-2 (set 6 ft above sill)	0
Entrance Weir Depths (0.11 - 0.2 too low)	
NSE-1 (7.80 - 7.89)	3
NSE-2 (7.80 - 7.89)	2
SPE-1 (7.80 - 7.89)	0
SPE-2 (7.80 - 7.89)	0
SSE-1 (7.80 - 7.89)	0
SSE-2 (set 6 ft above sill)	0
Entrance Weir Depths (0.01 - 0.1 too low)	
NSE-1 (7.90 - 7.99)	0
NSE-2 (7.90 - 7.99)	1
SPE-1 (7.90 - 7.99)	0
SPE-2 (7.90 - 7.99)	0
SSE-1 (7.90 - 7.99)	0
SSE-2 (set 6 ft above sill)	0



These red cells do not calculate correctly. Be sure to do them by hand. (Spurgeon)