ADULT AND JUVENILE FISH FACILITY MONITORING REPORT LOWER MONUMENTAL DAM

2013

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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, 2013. 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, "2013 Juvenile Fish Collection and Bypass Report, Lower Monumental Juvenile Fish Facility".

River Conditions

During the 2013 season, the average daily flow exceeded 100.0 kcfs on 7 days and did not exceed 150 kcfs. The highest daily average flow for the season was 134.5 kcfs on May 15. The lowest daily average flow for the season occurred on September 2 with a flow of 12.1 kcfs. The average flow for the season was 45.7 kcfs. Spill occurred for 152 days from April 3 through midnight on August 31, with a maximum daily average spill of 31.9 on May 2. The RSW was put into operation when Court ordered spill began on April 3, and was taken out of service for the season on August 31. River temperature averaged 59.4°F for the season and ranged from 43.4°F in early April, to 70.1°F in early September.

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

No fish ladder system modifications were made this season.

Operations and Maintenance

Fish Ladders and Collection Channels

The adult fishways were in service throughout 2013 with the exception of the winter maintenance season. Inspection and maintenance on the north and south shore fishways occurred from January 2 to February 11 and February 11 to February 27, 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. 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. Results from the unwatering of the ladder: one clipped juvenile steelhead was salvaged from the north shore ladder exit. Inspection of the north shore upper ladder diffuser (GS6) revealed a section of loose grating due to failed clasps. Two clipped adult steelhead and one unclipped juvenile steelhead were salvaged from under the grating. One small unidentified fish swam under the concrete and was un-retrievable. Multiple unidentifiable decomposed fish were removed from under the grating. 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 gratings. 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 not required in the lower ladders in 2013. NSE gates 1 and 2 were refurbished during the maintenance outage. 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

During the winter maintenance period, the auxiliary water supply conduit north of the regulating gate was partially dewatered and inspected.

Fish pumps 1, 2, and 3 were out of service (OOS) from January 1 to February 20 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 remained out of service for bearing repair and shaft alignment. To minimize water loss during two-pump operation, pump 2 was bulkheaded off. Pumps 1 and 3 remained in service throughout the passage season. The more significant pump outages are summarized in Table 1.

Table 1. Fish pump outages at Lower Monumental Dam, 2013 *

Affected Pump(s)	Dates	Reason for Outage/Comments
1, 2, 3	Jan 1 – Feb 20	Annual maintenance
2	Feb 20 – December 31	Bearing repair and shaft alignment

^{*}Only outages involving two or more calendar days are included.

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.

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 are normally conducted three or more times per reporting week with day and times randomized. An average of 4.0 inspections per week was performed (176 inspections /44 weeks) in 2013. 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 were recorded and compared with automated control system readings to check for calibration problems. The automated control system readings and mechanical reading systems were routinely calibrated in 2013. High variability between wave crests and troughs created by spill reduces the accuracy of biologists' staff gauge readings in the tailrace. Thus the automated control system printout was also compared to visual reading to ensure fishways were in criteria. Data from fishway inspections was entered into an Excel spreadsheet (Appendix 1). The average compliance of all criteria points in 2013 was 99.6%. A summary of fish ladder performance and variability is provided in Table 2. Ladder entrance weir gates were on sill less in 2012 than in 2013 due to reduced river flow this season.

<u>Ladder exits</u>: North shore ladder exit head differentials were in criteria on 98.9% of the inspections. The two out of criteria readings of 2.0' and 1.2 feet occurred on December 9 and 10 due to a combination of debris and ice creating a dam at the ladder exit. 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.

<u>Ladder weirs</u>: 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 99.4% of inspections. The single discrepancy was likely a misreading.

<u>Counting stations</u>: 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 100% of inspections.

South powerhouse entrance head was in criteria on 99.4% of inspections. It was out of criteria on one inspection with a reading of 2.2 feet. This out of criteria reading was likely due to the inspection being performed during the occurrence of simultaneous changes in powerhouse and spill operations to accommodate Doble testing of transformers. The entrance head was in criteria when reinspected later that day.

South shore entrance head differential was in criteria on 100% of inspections.

North shore entrance (NSE-1 & 2) depths: NSE-1 weir gate was in depth criteria or sill criteria on 98.8% of inspections (97.7% depth, 1.1% sill). The gate was out of criteria on two occasions with gate depth readings of 7.9 feet. The first reading may have been taken when automatic adjustment of the gate was occurring. The reason for the second out of criteria reading was undetermined. The gate was in criteria when checked later that day.

NSE-2 weir gate was in depth or sill criteria on 97.7% of inspections (96.6% depth, 1.1% sill). The gate was out of criteria on four inspections with depth readings of 7.8', 7.9', 7.8', and 7.8 feet. The first discrepancy was attributed to a failed transducer and the remaining three were due to calibration issues after replacement of the failed transducer.

<u>South powerhouse entrance (SPE-1 & 2) depths</u>: SPE-1 weir gate was in depth or sill criteria on 100% of inspections (3.4% depth, 96.6% sill).

SPE-2 weir gate was in depth criteria or sill on 100% of inspections (3.4% depth, 96.6% sill).

<u>South shore entrances (SSE-1 & 2)</u>: SSE-1 weir gate was in depth or sill criteria on 100% of inspections (30.1% depth, 69.9 % sill).

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

<u>North shore collection channel velocity</u>: 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 100% of inspections (criteria: 1.5-4.0 ft/s).

Recommendations

- 1. Leave pumps permanently installed in the auxiliary water supply conduit to reduce preparation time for dewatering the lower ladders.
- 2. Remove sand and debris from the supply conduits and replace all original ladder diffuser grates and support structures. Additionally, repair/replace mud valves.
- 3. Replace plastic picketed leads at the north shore count station with stainless steel leads to eliminate the expansion and warping that the plastic exhibits with hot temperatures. Alter these picketed leads so that the vanes are oriented at an angle to the water flow to prevent algae from adhering to the vanes.
- 4. Modify the south shore picketed leads from a single set to a double set. Install an electric hoist system that will service all of them. 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 the operating equipment for south shore entrance gates. All other fish ladder entrance gates have been rebuilt.
- 12. Repair north and south shore fish ladder joint leakage.

Table 2. Summary of adult fishway inspections at Lower Monumental Dam, 2013 ¹

Table 2. Su	mmary of ac	4411 11311 W		t Enough De			o Much Der	
Criteria and Locations	No. in Criteria/ No. on Sill/ No. of Inspections	% In Criteria/ % On Sill	No./% Within 0.01-0.1 Foot	No./% Within 0.11-0.2 Foot	No./% >0.2 Foot	No./% Within 0.01-0.1 Foot	No./% Within 0.11-0.2 Foot	No./% >0.2 Foot
North Channel	175	100.0	***	***	***	***	***	***
Water Velocities	***	***	***	***	***	***	***	***
	175		 Differer	ntiale				
North Ladder			Differen	ltiais				
Ladder Exit	174	98.9	***	***	***	0	0	2
	***	***	***	***	***	0.0	0.0	1.1
T 11 TY7 '	176				_	_	_	
Ladder Weirs	176 ***	100.0	0 0.0	0.0	0.0	0.0	0	0 0.0
	176		0.0	0.0	0.0	0.0	0.0	0.0
Counting Station	174	98.9	***	***	***	0	0	2
Č	***	***	***	***	***	0.0	0.0	1.1
	176							
South Ladder	176	100.0	ale plants	alesto do	ala et e et e	^	^	^
Ladder Exit	176 ***	100.0	***	***	***	0.0	0 0.0	0 0.0
	176	1.1.1.	4-4-4			0.0	0.0	0.0
Ladder Weirs	175	99.4	1	0	0	0	0	0
	***	***	0.6	0.0	0.0	0.0	0.0	0.0
	176							
Counting Station	176 ***	100.0	***	***	***	0	0	0
	176	***	***	***	***	0.0	0.0	0.0
Coll. Channels	170							
North Shore	176	100.0	0	0	0	0	0	0
Entrance	***	***	0.0	0.0	0.0	0.0	0.0	0.0
	176							
South Powerhouse Entrance	175 ***	99.4 ***	0	0	0	0	0	1
Entrance	176	***	0.0	0.0	0.0	0.0	0.0	0.6
South Shore	176	100.0	0	0	0	0	0	0
Entrance	***	***	0.0	0.0	0.0	0.0	0.0	0.0
	176							
NGE 12	T		Weir Do					
NSE-1 ²	172	97.7 1.1	2 1.1	0 0.0	0.0	***	***	***
	176	1.1	1.1	0.0	0.0			1.1.1
NSE-2 ²	170	96.6	1	3	0	***	***	***
	2	1.1	0.6	1.7	0.0	***	***	***
	176							
SPE-1 ²	6	3.4	1	1	0	***	***	***
	170 176	96.6	0.6	0.6	0.0	***	***	***
SPE-2 ²	6	3.4	0	1	0	***	***	***
	170	96.6	0.0	0.6	0.0	***	***	***
	176							
SSE-1 ²	53	30.1	0	0	0	***	***	***
	123	69.9	0.0	0.0	0.0	***	***	***
SSE-2	176 176	100.0	0	0	0	***	***	***
2022	Not Applic.	***	0.0	0.0	0.0	***	***	***
	176							

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 2013 fish collection season:

- 1. Replaced all raceway tailscreens with an improved slotted perforated plate system. (lamprey improvement program)
- 2. Replaced porosity unit perforated plates with plates which have narrower slots.
- 3. A concrete ramp was installed along the transition flume to remove a stumbling hazard in accessing the separator booth.
- 4. Handrails were added in numerous locations where one might accidently step off an elevated area.

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.

Table 1. Summary of Unit Outages and Cause.

Unit Dates out of service Reason out of service All Units Monthly STS/VBS inspection. March 18-21 All Units Trash rack raking and STS installation All Units August 19-26 Doble testing Annual Maintenance Unit 1 July 1-25 July 29 Headgate cylinder removal Blown actuator seal on entry hatch August 30 Insufficient orifice availability to fill juvenile channel prior to March 20-21 Unit 2 bypass water-up Supply breaker failed to close April 4 Loss of meter inputs July 1 September 9 – Annual Maintenance October 29 Unit 3 April 4 Supply breaker failed to close August 12 – Annual Maintenance September 4 September 5 Headgate cylinder removal March 4 Exciter inspection Unit 4 May 6-7 Lockout relay control panel tripped at shutdown June 17-28 Annual Maintenance July 1 Headgate cylinder removal July 30 Relay testing March 5 Slip ring cleaning and PNNL hydrophone installation Unit 5 March 12-14 Faulty voltage regulator March 22-25 Brake problem October 1 PNNL removal of cluster arrays Slip ring cleaning and PNNL hydrophone installation Unit 6 March 5 Insufficient orifice availability to fill juvenile channel prior to March 19-20 bypass water-up Headgate cylinder removal and brake solenoid repair April 2 July 29 – August Annual Maintenance 17

Debris/Trash Racks

Trash rack raking occurred between March 18 and 20. A total of 85 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 5 and were installed from March 19 through 21. After installation, inspection was done monthly by

underwater video camera through November. No STS problems required repair during the 2013 season. Last year inferior mesh fasteners were replaced with upgrades and this prevented failures this season.

STSs were operated in "cycle" mode while the average fork length of subyearling chinook and/or sockeye/kokanee were greater than 120 mm (March 19 through May 13), and in continuous "run" mode when either was less than 120 mm (May 13 to July 23). From July 23 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, 9 and 10. Additionally, they were spot-checked monthly during STS inspections. No problems were found.

Gatewells

Dipping the bulkhead slots (gatewells) yielded 20 cubic yards of debris this season. Gatewells were normally less than 10% covered. Gatewells exceeded the 50% debris criterion only on April 20 and 21 this season. This gatewell debris was removed on Monday, April 22. Occasional oil sheens were dealt with by floating oil absorbent pads in the affected gatewells.

Orifices/Collection Channel

During the 2013 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 last 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 2015.

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.

No problems occurred with the PIT-tag diversion gates this season. Gate position sensors were installed seven 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

Barge loading operations occurred from May 8 through August 14. Barge loading went very smoothly this season. The guide for the downstream mooring bit, having been deformed in a collision by a barge years ago, has caused a problem with the 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 not transported from August 14 to August 21 due to a high mortality rate related to *columnaris*. From August 21 through August 30, alternate days' collection was transported with non-transport days bypassed. Trucking did not occur from August 30 at 1335 hours until September 4 at 0955 hours due to high mortality caused by *columnaris*. Trucking of alternate days' collection resumed September 4 at 0955 hours and continued through September 18 at 0700 hours. At that time operation changed to collecting fish every day and transporting them on an alternate day schedule. This continued through October 1 at 0700. 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 coverage (daylight to dusk) occurred from May 7 through June 2.

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. Bird wires were added along the top rail of the lock wall 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 three separate procedures: 1. during fish ladder inspections, 2. as hourly observations of the bypass outfall, and 3. as part of the new regional avian monitoring process.

Fish Ladder Inspection 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 hazing. 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. In the absence of hazing, gulls appeared to be fairly effective at feeding in the tailrace areas especially during spill. Each ladder inspection includes an avian predator count section for the four areas including: the forebay, spillway, under birdwires of the turbine discharge, and at the bypass outfall. The following summarizes the data collected during fish ladder inspections.

Gulls

During the transport season the maximum gull count in the forebay was 93 (May 12) with a seasonal daily average sighting of 7.1, in the spillway 75 (June 23) with a daily seasonal average sighting of 16, in the birdwire area of the turbine discharge 3 (September 7) with a daily seasonal average sighting of 0.0, and at the bypass outfall 1 (July 20) with a seasonal daily average sighting of 0.0. Gull numbers were again low this year as compared to the past. They began to build in late-April and peaked in mid-May. Gull numbers fell off greatly by mid-June and began increasing again in September as juvenile shad numbers increased.

Hazing was effective at moving the birds out of the area. Two shifts were used to provide daylight to dusk coverage. 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 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

During the transport season the maximum pelican count in the forebay was 5 (May 8) with a seasonal daily average sighting of 0.2, in the spillway 6 (July 5) with a seasonal daily average sighting of 0.6, and at the bypass outfall 0 (N/A) with a seasonal daily average sighting of 0.0. No pelicans were observed under the bird wires this season.

Terns

During the transport season the maximum tern count in the forebay was 1 (April 21, 28 and August 11) with a seasonal daily average sighting of 0.03, and in the spillway 3 (August 2) with a seasonal daily average sighting of 0.05. No terns were observed under the bird wires or at the bypass outfall this season.

Grebe

During the transport season the maximum grebe count in the forebay was 1 (April 6) with a seasonal daily average sighting of 0.01. No grebes were observed at the spillway, nor under the birdwires or at the bypass outfall this season.

Cormorant

During the transport season the maximum cormorant count in the forebay was 8 (September 22) with a seasonal daily average sighting of 0.5, in the spillway 12 (September 21) with a seasonal daily average sighting of 1.5, and under the birdwires of the turbine discharge 5 (September 26) with a seasonal daily average sighting of 0.01. No cormorants were observed at the bypass outfall this season.

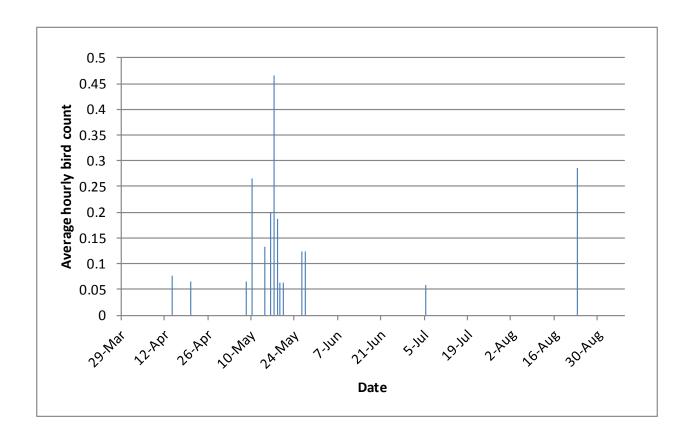
Separator Technician Bird Monitoring of Bypass Outfall

Separator technicians made hourly daylight counts of piscivorous birds at the bypass outfall from April 1 through September 30. Very few birds were seen. A total of 30 birds were sighted during this period. The species sighted and percent of the total sightings were: gulls 25 (83%), pelicans 4 (13%), and osprey 1 (3.3%). The vast majority of sightings occurred in May. Average hourly counts can be seen in Figure 1.

Regional Avian Monitoring Program

One bird count per day was made April 1 through September 30 for inclusion in the regional database for bird sighting location, abundance, and behavior tracking. The time of observation was variable and included both hazed and un-hazed birds. Birds moving between the five zones (FB1, JFOF, PHT1 PHT2 and SWT1) were likely counted more than once. Bird behaviors were assigned as: foraging, flyby, resting, and scavenging. The maximum bird count (all species combined) was 258 birds (May 19), the minimum was 0 (April 1, 3, 7 and 9), and the average was 44.6. Daily total bird counts (all piscivorous birds) are shown in Figure 2.

Figure 1. Bypass outfall average hourly piscivorous bird count by day (April 1 – September 30, 2013), Lower Monumental Dam.



Daily mean total bird counts by zone included: forebay (FB1) 18.15, juvenile facility bypass outfall (JFOF) 0.13, powerhouse tailrace under birdwires (PHT1) 0.16, powerhouse tailrace outside of bird wires (PHT2) 7.31, and spillway tailrace (SWT1) 18.61. Figure 3 shows relative mean total bird numbers across these five zones.

Within each zone the dominant behavior varied. In FB1 89.0% of birds were resting, 7.65% foraging and 3.3% were flyby. In JFOF 61.5% of birds were resting, 30.8% were foraging, and 7.7% were flyby. In PHT1 87.5% of birds were foraging, 6.25% were resting and 6.25% were flyby. In PHT2, 72.7% were resting, 25.9% were foraging and 1.4% were flyby. In SWT1, 56.2% were foraging, 41.9% of birds were resting, 1.9% were flyby. Scavenging was not a significant percentage in any zone. Daily mean bird numbers by zone and behavior are shown in Figure 4.

Figure 2. Daily total bird counts, all zones (April 1 – September 30, 2013), Lower Monumental Dam.

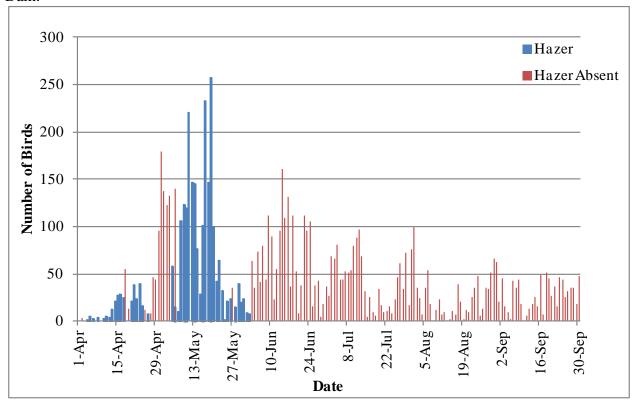
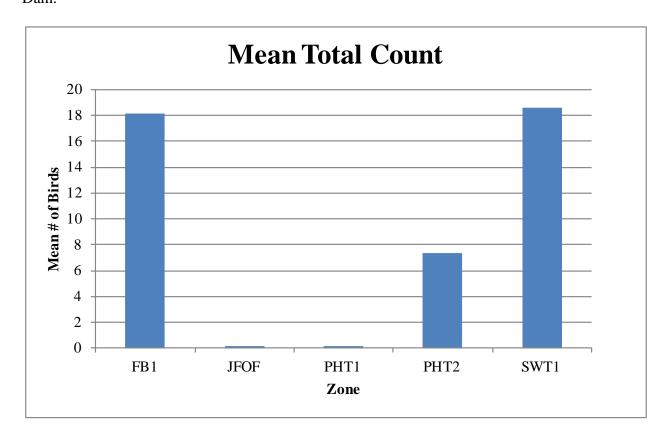


Figure 3. Daily mean bird count by zone (April 1 – September 30, 2013), Lower Monumental Dam.

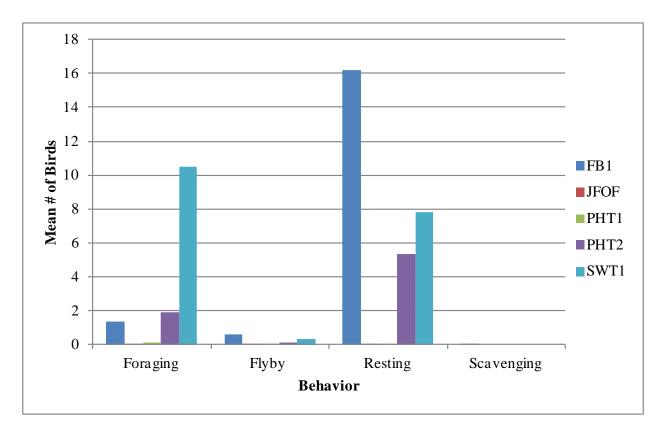


Cooling Water Strainer Counts

Turbine unit cooling water strainers were examined for biologic content once per month throughout operating year 2013. 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 192 (23.5%), salmon species 29 (3.5%), steelhead 29 (0.5%), prawn 106 (12.1%), and other 485 (59.4%).

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 June with numbers peaking at 80 in June. Salmon species were generally susceptible only in May through July peaking at 16 in May. Steelhead were only susceptible in May totaling 3. Prawn were present throughout the year peaking at 38 in October. The group "Others" was generally present in January and from October through December peaking at 220 in November. The vast majority of all groups were no longer living when collected. The percent of each group released alive was: lamprey 5.2%, salmon species 0%, steelhead 0.0%, prawn 6.6%, and other 0%. Probability of any individual being alive at the time of strainer cleaning was likely more related to time of entry into that strainer rather than which unit's strainer it was found in.

Figure 4. Daily mean bird count by behavior (April 1 – September 30, 2013), Lower Monumental Dam.



Recommendations

- 1. Resolve the separator sudden water loss problem so that separator efficiency can be improved and fish safety can be achieved at optimum separator water levels.
- 2. 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.
- 3. Research changing the drive system of the primary dewatering mechanical screen cleaner to a system with reduced maintenance required. Most mechanical screen cleaner failures are related to the drive cable and/or sheave attached to the drive motor shaft. (The correction of this problem may be done this winter)
- 4. 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)
- 5. 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 TABLES

APPENDIX 1. LOWER MONU						2013	40.14	4434	40.14	40.14
DATES:	4-Mar	5-Mar	6-Mar	7-Mar	11-Mar	12-Mar	13-Mar	14-Mar	18-Mar	19-Mar
CHAN'L VELOCITIES (N): ELEVATIONS:	2.2	2.4	2.4	2.6	1.8	2.6	2.3	2.5	2.6	2.2
North Fish Ladder										
Forebay	538.9	538.7	538.9	539.0	538.8	539.0	539.0	539.0	538.4	538.7
Exit Pool	538.8	538.6	538.8	539.0	538.7	538.9	538.9	539.0	538.4	538.6
Makeup Diffuser	534.0	534.0	534.1	534.1	534.0	534.0	534.1	534.1	534.1	534.1
U S Picketed Leads	467.9	467.9	467.9	467.9	468.0	468.0	468.0	467.9	468.0	467.9
D S Picketed Leads	467.9	467.8	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9
South Fish Ladder	538.9	5207	529 N	520.0	529 N	520.0	520.0	520.0	520 5	5207
Forebay Exit Pool	538.8	538.7 538.6	538.9 538.9	539.0 538.9	538.9 538.8	539.0 539.0	539.0 539.0	539.0 539.0	538.5 538.4	538.7 538.6
Makeup Diffuser	534.1	534.1	534.1	534.1	534.0	534.1	534.1	534.1	534.1	534.1
U S Picketed Leads	534.1	534.1	534.1	534.1	534.0	534.1	534.1	534.1	534.1	534.1
D S Picketed Leads	534.1	534.1	534.1	534.1	534.0	534.1	534.1	534.1	534.1	534.1
Collection Channels										
North Shore	440.5	440.4	440.7	440.3	441.0	440.9	440.5	440.8	440.5	440.3
South Powerhouse	440.4	440.3	440.6	440.2	440.8	440.7	440.4	440.6	440.3	440.2
South Shore Tailwater	440.4	440.3	440.5	440.2	440.7	440.6	440.3	440.6	440.0	440.2
North Shore	439.3	439.3	439.6	439.0	439.8	439.7	439.2	439.6	439.2	439.0
South Powerhouse	439.3	439.2	439.5	439.0	439.7	439.5	439.2	439.5	439.2	439.0
South Shore	439.4	439.2	439.4	439.1	439.6	439.5	439.2	439.4	438.9	439.2
Entrance Weirs										
NSE-1	431.2	431.3	431.5	431.0	431.8	431.6	431.1	431.5	431.1	431.0
NSE-2	431.2	431.3	431.5	431.0	431.8	431.6	431.1	431.6	431.1	430.9
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 SSE-2 (feet above sill)	431.3 6.0	431.0 6.0	431.2 6.0	431.0 6.0	431.6 6.0	431.4 6.0	431.1 6.0	431.4 6.0	431.0 6.0	431.0 6.0
DIFFERENTIALS/DEPTHS:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Fish Ladder										
Ladder Exit	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1
Ladder Weirs	1.0	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.1
Counting Station	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0
South Fish Ladder										
Ladder Exit	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1
Ladder Weirs	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.1
Counting Station Collection Channels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Shore	1.2	1.1	1.1	1.3	1.2	1.2	1.3	1.2	1.3	1.3
South Powerhouse	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.1	1.1	1.2
South Shore	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.0
Weir Depths										
NSE-1	8.1	8.0	8.1	8.0	8.0	8.1	8.1	8.1	8.1	8.0
NSE-2	8.1	8.0	8.1	8.0	8.0	8.1	8.1	8.0	8.1	8.1
SPE-1 SPE-2	7.3 7.3	7.2 7.2	7.5 7.5	7.0 7.0	7.7 7.7	7.5 7.5	7.2 7.2	7.5 7.5	7.2 7.2	7.0 7.0
SSE-1	8.1	8.2	8.2	8.1	8.0	7.3 8.1	8.1	8.0	7.2	8.2
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 Counting Station	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES
South Fish Ladder	11.0	1123	1123	1123	1123	1123	1123	LLD	1123	1 டல
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 Collection Channels	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
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	MEG	MEG	MEG	MEG	MEG	MEG	MEG	MEG	MEG	MEG
NSE-1 NSE-2	YES YES	YES YES	YES YES	YES YES	YES YES	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	YES	YES	YES	SILL	YES
SSE-2 (feet above sill) CRITERIA POINTS: YES	YES (Output = 0.	YES	YES	YES	YES	YES	YES	YES	YES	YES
Channel Velocities	1	, 1, or NA) 1	1	1	1	1	1	1	1	1
Differentials										

APPENDIX 1 (CONTINUED).							2013	1 4	2 1	
DATES:	20-Mar	24-Mar	25-Mar	26-Mar	29-Mar	30-Mar	31-Mar	1-Arp	3-Apr	4-Apr
CHAN'L VELOCITIES (N): ELEVATIONS:	2.3	2.4	2.4	2.5	2.8	2.1	1.8	2.7	2.6	2.6
North Fish Ladder										
Forebay	538.7	538.7	537.9	538.1	538.6	538.5	538.2	537.7	537.5	537.5
Exit Pool	538.6	538.6	537.8	538.0	538.6	538.4	538.1	537.5	537.5	537.4
Makeup Diffuser	534.0	534.1	534.2	534.1	534.0	534.1	534.1	534.1	534.3	534.0
U S Picketed Leads	468.0	467.9	467.9	467.9	468.0	467.9	467.9	467.9	468.0	467.9
D S Picketed Leads	467.9	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.7
South Fish Ladder	520.5	520.0	520.0	520.2	500 6	520.6	500.0	525.0	505.5	505.4
Forebay	538.7	538.8	538.0	538.2	538.6	538.6	538.2	537.8	537.5	537.4
Exit Pool Makeup Diffuser	538.7 534.0	538.6 534.1	537.6 534.0	538.1 534.1	538.6 534.1	538.5 534.1	538.1 534.1	537.6 534.1	537.5 534.0	537.4 534.1
U S Picketed Leads	534.0	534.1	534.0	534.1	534.1	534.1	534.1	534.1	534.0	534.1
D S Picketed Leads	534.0	534.1	534.0	534.1	534.1	534.1	534.1	534.1	534.0	534.1
Collection Channels										
North Shore	439.7	440.0	440.0	440.1	440.8	440.5	440.4	440.9	439.8	439.6
South Powerhouse	439.5	439.8	439.9	440.1	440.6	440.5	440.2	440.7	439.6	439.5
South Shore	439.4	439.6	439.8	439.8	440.5	440.9	440.1	441.2	438.8	438.5
Tailwater	400 =	400 =	400.0	400.0	100 4	400 =	100.0	400 =	100 1	400 -
North Shore	438.5	438.7	438.8	438.9	439.6	439.5	439.3	439.7	438.4	438.5
South Powerhouse South Shore	438.5	438.7	438.8	439.0	439.5	439.3	439.0	439.6	438.1	438.4
Entrance Weirs	438.3	438.6	438.7	438.6	439.4	439.9	439.0	440.1	437.7	437.4
NSE-1	430.3	430.6	430.5	430.4	431.4	430.9	431.1	431.6	430.2	430.2
NSE-2	430.4	430.6	430.5	430.4	431.4	430.9	431.1	431.6	430.3	430.2
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	431.4	431.8	431.0	432.1	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	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.0	0.1
Ladder Exit	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.0	0.1
Ladder Weirs Counting Station	1.0 0.1	1.1 0.1	1.2 0.1	1.1 0.1	1.0 0.2	1.1 0.1	1.1 0.1	1.1 0.1	1.3 0.2	1.0 0.2
South Fish Ladder	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2
Ladder Exit	0.0	0.2	0.4	0.1	0.0	0.1	0.1	0.2	0.0	0.0
Ladder Weirs	1.0	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.1
Counting Station	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Collection Channels										
North Shore	1.2	1.3	1.2	1.2	1.2	1.0	1.1	1.2	1.4	1.1
South Powerhouse	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.5	1.1
South Shore	1.1	1.0	1.1	1.2	1.1	1.0	1.1	1.1	1.1	1.1
Weir Depths NSE-1	8.2	8.1	8.3	8.5	8.2	8.6	8.2	8.1	8.2	8.3
NSE-2	8.1	8.1	8.3	8.5	8.2	8.6	8.2	8.1	8.2 8.1	8.3
SPE-1	6.5	6.7	6.8	7.0	7.5	7.3	7.0	7.6	6.1	6.4
SPE-2	6.5	6.7	6.8	7.0	7.5	7.3	7.0	7.6	6.1	6.4
SSE-1	7.3	7.6	7.7	7.6	8.0	8.1	8.0	8.0	6.7	6.4
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	N/TOG	T.TD.C	*/F/G	* ATT C	*******	* ALDIC	T.TD.C	T.TD.C	N/TDG	MEG
Ladder Exit	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Ladder Weirs Counting Station	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES
South Fish Ladder	115	LLD	125	1 LIS	LLD	LLS	LLD	LLS	125	125
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	****	*****	, me	1000	*****	, me	*****	1777	****	
NSE-1 NSE-2	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES
NSE-2 SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	YES SILL
SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SSE-1	SILL	SILL	SILL	SILL	YES	YES	YES	YES	SILL	SILL
SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
CRITERIA POINTS: YES	(Output = 0	, 1, or NA)	1	1	1	1	1	1	1	(Output = 1
	•									
Channel Velocities Differentials North Fish Ladder	·									
	1	1	1	l Fay	1	1	1	1	1	1

	APPENDIX 1 (CONTINUED).							2013
DATES:	DATES:	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	11-Apr	13-Apr
CHAN'L VELOCITIES (N):	CHAN'L VELOCITIES (N):	2.2	2.4	2.4	2.4	2.4	2.5	2.6
ELEVATIONS:	ELEVATIONS:							
North Fish Ladder	North Fish Ladder	537.5	537.3	537.2	537.4	537.4	537.2	537.3
Forebay Exit Pool	Forebay Exit Pool	537.5	537.3	537.2	537.4	537.4	537.2	537.3
Makeup Diffuser	Makeup Diffuser	534.0	534.1	534.1	534.1	534.0	534.0	534.1
U S Picketed Leads	U S Picketed Leads	467.9	467.9	467.9	467.9	468.0	467.9	467.9
D S Picketed Leads	D S Picketed Leads	467.7	467.7	467.7	467.7	467.8	467.8	467.7
South Fish Ladder	South Fish Ladder							
Forebay	Forebay	537.5	537.4	537.2	537.4	537.4	537.3	537.4
Exit Pool	Exit Pool	537.5	537.2	537.2	537.3	537.3	537.2	537.3
Makeup Diffuser	Makeup Diffuser	534.1	534.1	534.1	534.1	534.1	534.0	534.1
U S Picketed Leads	U S Picketed Leads	534.1	534.1	534.1	534.1	534.1	534.0	534.1
D S Picketed Leads	D S Picketed Leads	534.1	534.1	534.1	534.1	534.1	534.0	534.1
Collection Channels	Collection Channels	440.4						
North Shore	North Shore	440.1	440.4	440.4	441.0	440.5	440.2	439.7
South Powerhouse	South Powerhouse South Shore	440.0	440.2	440.3	440.8	440.3	440.0	439.3
South Shore Tailwater	Tailwater	439.1	439.6	439.9	440.4	439.7	439.3	439.0
North Shore	North Shore	438.8	439.3	439.2	439.7	439.1	438.8	438.3
South Powerhouse	South Powerhouse	438.8	439.0	439.1	439.6	439.2	438.7	438.1
South Shore	South Shore	438.0	438.5	438.8	439.1	438.6	438.2	437.9
Entrance Weirs	Entrance Weirs							
NSE-1	NSE-1	430.6	431.0	431.0	431.6	431.1	430.7	430.3
NSE-2	NSE-2	430.6	431.0	431.1	431.6	431.0	430.8	430.2
SPE-1	SPE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SPE-2	SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0
SSE-1	SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0
SSE-2 (feet above sill)	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DIFFERENTIALS/DEPTHS:	DIFFERENTIALS/DEPTHS:							
North Fish Ladder	North Fish Ladder							
Ladder Exit	Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ladder Weirs	Ladder Weirs	1.0 0.2	1.1 0.2	1.1 0.2	1.1 0.2	1.0 0.2	1.0	1.1 0.2
Counting Station South Fish Ladder	Counting Station South Fish Ladder	0.2	0.2	0.2	0.2	0.2	0.1	0.2
Ladder Exit	Ladder Exit	0.0	0.2	0.0	0.1	0.1	0.1	0.1
Ladder Weirs	Ladder Weirs	1.1	1.1	1.1	1.1	1.1	1.0	1.1
Counting Station	Counting Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collection Channels	Collection Channels							
North Shore	North Shore	1.3	1.1	1.2	1.3	1.4	1.4	1.4
South Powerhouse	South Powerhouse	1.2	1.2	1.2	1.2	1.1	1.3	1.2
South Shore	South Shore	1.1	1.1	1.1	1.3	1.1	1.1	1.1
Weir Depths	Weir Depths							
NSE-1	NSE-1	8.2	8.3	8.2	8.1	8.0	8.1	8.0
NSE-2	NSE-2	8.2	8.3	8.1	8.1	8.1	8.0	8.1
SPE-1	SPE-1	6.8	7.0	7.1	7.6	7.2	6.7	6.1
SPE-2	SPE-2	6.8	7.0	7.1	7.6	7.2	6.7	6.1
SSE-1	SSE-1	7.0	7.5	7.8	8.1	7.6	7.2	6.9
SSE-2 (feet above sill)	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
CRITERIA POINTS:	CRITERIA POINTS:	VEC						
Channel Velocities Differentials	Channel Velocities Differentials	YES						
North Fish Ladder	North Fish Ladder							
Ladder Exit	Ladder Exit	YES						
Ladder Weirs	Ladder Weirs	YES						
Counting Station	Counting Station	YES						
South Fish Ladder	South Fish Ladder							
Ladder Exit	Ladder Exit	YES						
Ladder Weirs	Ladder Weirs	YES						
Counting Station Collection Channels	Counting Station Collection Channels	YES						
North Shore	North Shore	YES						
South Powerhouse	South Powerhouse	YES						
South Shore	South Shore	YES						
Weir Depths	Weir Depths							
NSE-1	NSE-1	YES						
NSE-2	NSE-2	YES						
SPE-1 SPE-2	SPE-1 SPE-2	SILL SILL						
SPE-2 SSE-1	SPE-2 SSE-1	SILL	SILL	SILL	YES	SILL	SILL	SILL
SSE-1 (feet above sill)	SSE-2 (feet above sill)	YES						
CRITERIA POINTS: YES	CRITERIA POINTS: YES							- 20
Channel Velocities	Channel Velocities	1	1	1	1	1	1	1
Differentials	Differentials							
North Fish Ladder Ladder Exit	North Fish Ladder Ladder Exit	1	1	1	1	1	1	1

			APPENDIX 1 (CONTINUED).	LOWER M	ONUMENTA	AL ADULT I	FISHWAY I	NSPECTION	IS	2013
14-Apr	17-Apr	18-Apr	DATES:	19-Apr	20-Apr	21-Apr	24-Apr	25-Apr	26-Apr	27-Apr
2.7	2.6	2.2	CHAN'L VELOCITIES (N):	2.6	1.7	2.1	1.7	1.8	2.2	2
			ELEVATIONS:							
			North Fish Ladder							
537.3	537.5	537.6	Forebay	537.7	537.6	537.3	537.7	537.6	537.5	537.6
537.2	537.5	537.6	Exit Pool	537.7	537.6	537.3	537.6	537.5	537.5	537.6
534.0	534.0	534.1	Makeup Diffuser	534.0	534.0	534.1	534.0	534.0	534.0	534.1
467.9	467.9	467.9	U S Picketed Leads	467.9	467.9	467.9	468.1	467.9	467.9	467.8
467.7	467.7	467.7	D S Picketed Leads	467.7	467.7	467.7	468.0	467.7	467.7	467.7
527.2	527.5	527.6	South Fish Ladder	527.7	527.6	527.2	527.7	527.6	527.5	527.6
537.2	537.5	537.6	Forebay	537.7	537.6	537.3	537.7	537.6	537.5	537.6
537.2	537.5	537.5	Exit Pool	537.7	537.6	537.3	537.6	537.5	537.4	537.6
534.1	534.0	534.1	Makeup Diffuser	534.1	534.1	534.1	534.0	534.1	534.1	534.0
534.1 534.1	534.1 534.0	534.1 534.1	U S Picketed Leads D S Picketed Leads	534.1 534.1	534.1 534.1	534.1 534.1	534.2 534.0	534.1 534.1	534.1 534.1	534.0 534.0
334.1	334.0	334.1	Collection Channels	334.1	334.1	334.1	334.0	334.1	334.1	334.0
440.2	439.8	439.2	North Shore	439.7	439.2	439.5	439.3	439.0	439.2	439.7
440.0	439.5	439.1	South Powerhouse	439.4	439.1	439.3	439.1	439.1	439.3	439.5
439.4	438.9	438.5	South Fowerhouse South Shore	438.8	438.7	438.4	438.3	438.1	438.3	439.0
737.7	730.7	430.3	Tailwater	430.0	430.7	430.4	430.3	430.1	430.3	437.0
438.8	438.6	437.8	North Shore	438.4	437.9	438.1	437.6	437.6	438.0	438.2
438.7	438.5	437.7	South Powerhouse	438.3	438.0	438.1	437.5	437.9	438.0	438.3
438.3	437.7	437.3	South Shore	437.7	437.6	437.3	437.1	436.9	437.2	437.0
150.5		107.0	Entrance Weirs	.577	.57.0	15715	.57.1	15015	137.12	15710
430.8	430.1	429.7	NSE-1	430.3	429.6	430.0	429.5	429.1	429.7	430.2
430.7	430.4	429.7	NSE-2	430.4	429.6	429.9	429.5	429.1	429.7	430.2
432.0	432.0	432.0	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
431.0	431.0	431.0	SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			DIFFERENTIALS/DEPTHS:							
			North Fish Ladder							
0.1	0.0	0.0	Ladder Exit	0.0	0.0	0.0	0.1	0.1	0.0	0.0
1.0	1.0	1.1	Ladder Weirs	1.0	1.0	1.1	1.0	1.0	1.0	1.1
0.2	0.2	0.2	Counting Station	0.2	0.2	0.2	0.1	0.2	0.2	0.1
			South Fish Ladder							
0.0	0.0	0.1	Ladder Exit	0.0	0.0	0.0	0.1	0.1	0.1	0.0
1.1	1.0	1.1	Ladder Weirs	1.1	1.1	1.1	1.0	1.1	1.1	1.0
0.0	0.1	0.0	Counting Station	0.0	0.0	0.0	0.2	0.0	0.0	0.0
			Collection Channels							
1.4	1.2	1.4	North Shore	1.3	1.3	1.4	1.7	1.4	1.2	1.5
1.3	1.0	1.4	South Powerhouse	1.1	1.1	1.2	1.6	1.2	1.3	1.2
1.1	1.2	1.2	South Shore	1.1	1.1	1.1	1.2	1.2	1.1	2.0
			Weir Depths							
8.0	8.5	8.1	NSE-1	8.1	8.3	8.1	8.1	8.5	8.3	8.0
8.1	8.2	8.1	NSE-2	8.0	8.3	8.2	8.1	8.5	8.3	8.0
6.7	6.5	5.7	SPE-1	6.3	6.0	6.1	5.5	5.9	6.0	6.3
6.7	6.5	5.7	SPE-2	6.3	6.0	6.1	5.5	5.9	6.0	6.3
7.3	6.7	6.3	SSE-1	6.7	6.6	6.3	6.1	5.9	6.2	6.0
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
******	******	******	CRITERIA POINTS:	*****	******	******	******	******	******	******
YES	YES	YES	Channel Velocities	YES						
			Differentials							
VEC	VEC	VEC	North Fish Ladder	VEC	VEC	VEC	VEC	VEC	VEC	WEG
YES	YES	YES	Ladder Exit	YES						
YES YES	YES YES	YES YES	Ladder Weirs Counting Station	YES YES						
11:3	1153	1 63	South Fish Ladder	11:3	1123	1123	1123	1123	1123	1123
YES	YES	YES	Ladder Exit	YES						
YES	YES	YES	Ladder Weirs	YES						
YES	YES	YES	Counting Station	YES						
			Collection Channels							
YES	YES	YES	North Shore	YES						
YES	YES	YES	South Powerhouse	YES						
YES	YES	YES	South Shore	YES						
YES	YES	YES	Weir Depths NSE-1	YES						
YES	YES	YES	NSE-1 NSE-2	YES						
SILL	SILL	SILL	SPE-1	SILL						
SILL	SILL	SILL	SPE-2	SILL						
SILL	SILL	SILL	SSE-1	SILL						
YES	YES	YES	SSE-2 (feet above sill)	YES						
			0, CRITERIA POINTS: YES							
1	1	1	Channel Velocities	1	1	1	1	1	1	1
			Differentials North Fish Ladder							
1	1	1	Ladder Exit	1	1	1	1	1	1	1
				Гау	IE 4					

raye 4

28-Apr 2.3 537.3 537.2 534.0 467.8 467.7 537.2 537.2 534.1 534.1 534.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 431.0 6.0	30-Apr 2.3 537.6 537.6 534.0 467.9 467.7 537.6 537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 431.0	1-May 2.5 537.4 537.4 534.1 467.9 467.7 537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5 432.0	APPENDIX 1 (CONTINUED). DATES: CHAN'L VELOCITIES (N): ELEVATIONS: North Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads South Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads South Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Shore Entrance Weirs NSE-1	2-May 2.3 537.3 537.3 534.0 467.9 467.7 537.3 537.2 534.1 534.1 534.1 439.7 439.6 438.6 438.6 438.5 437.5	3-May 2 537.4 537.4 534.1 467.9 467.7 537.4 537.3 534.1 534.1 534.1 439.2 439.2 438.4 438.0 438.0	4-May 2.4 537.4 537.3 534.0 467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.8 439.7 439.0	5-May 2 537.4 537.4 534.1 467.9 467.7 537.4 534.1 534.1 534.1 439.2 439.1 438.3	6-May 2.4 537.4 537.4 534.0 467.9 467.7 537.5 537.3 534.0 534.1 534.1 440.2 440.0 439.3	8-May 2.8 537.0 537.0 534.2 468.0 467.7 537.0 534.0 534.2 534.0 440.6 440.4 438.8	2013 10-May 2.5 537.4 537.4 534.1 467.9 467.7 537.5 537.4 534.1 534.1 534.1 441.9 441.6 440.7
537.3 537.2 534.0 467.8 467.7 537.2 537.2 534.1 534.1 534.1 439.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 431.0	537.6 537.6 534.0 467.9 467.7 537.6 537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 431.0	537.4 537.4 534.1 467.9 467.7 537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8	ELEVATIONS: North Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads South Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads O S Picketed Leads D S Picketed Leads D S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Shore Entrance Weirs	537.3 537.3 534.0 467.9 467.7 537.3 537.2 534.1 534.1 534.1 439.7 439.6 438.6 438.6	537.4 537.4 534.1 467.9 467.7 537.4 537.3 534.1 534.1 534.1 439.2 439.2 438.4	537.4 537.3 534.0 467.9 467.7 537.4 534.1 534.1 534.1 439.8 439.7 439.0	537.4 537.4 534.1 467.9 467.7 537.4 537.4 534.1 534.1 439.2 439.1	537.4 537.4 534.0 467.9 467.7 537.5 537.3 534.0 534.1 534.1	537.0 537.0 534.2 468.0 467.7 537.0 537.0 534.0 534.2 534.0 440.6 440.4	537.4 537.4 534.1 467.9 467.7 537.5 537.4 534.1 534.1 534.1 441.9 441.6 440.7
537.2 534.0 467.8 467.7 537.2 537.2 534.1 534.1 534.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 431.0	537.6 534.0 467.9 467.7 537.6 537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 432.0 432.0 431.0	537.4 534.1 467.9 467.7 537.4 537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	North Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads South Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads D S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Powerhouse South Shore Entrance Weirs	537.3 534.0 467.9 467.7 537.3 537.2 534.1 534.1 534.1 439.7 439.6 438.6 438.6	537.4 534.1 467.9 467.7 537.4 537.3 534.1 534.1 534.1 439.2 439.2 438.4	537.3 534.0 467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.8 439.7 439.0	537.4 534.1 467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.2 439.1	537.4 534.0 467.9 467.7 537.5 537.3 534.0 534.1 534.1 440.2 440.0	537.0 534.2 468.0 467.7 537.0 537.0 534.0 534.2 534.0 440.6 440.4	537.4 534.1 467.9 467.7 537.5 537.4 534.1 534.1 534.1 441.9 441.6 440.7
537.2 534.0 467.8 467.7 537.2 537.2 534.1 534.1 534.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 431.0	537.6 534.0 467.9 467.7 537.6 537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 432.0 432.0 431.0	537.4 534.1 467.9 467.7 537.4 537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads South Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Shore South Powerhouse South Shore	537.3 534.0 467.9 467.7 537.3 537.2 534.1 534.1 534.1 439.7 439.6 438.6 438.6	537.4 534.1 467.9 467.7 537.4 537.3 534.1 534.1 534.1 439.2 439.2 438.4	537.3 534.0 467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.8 439.7 439.0	537.4 534.1 467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.2 439.1	537.4 534.0 467.9 467.7 537.5 537.3 534.0 534.1 534.1 440.2 440.0	537.0 534.2 468.0 467.7 537.0 537.0 534.0 534.2 534.0 440.6 440.4	537.4 534.1 467.9 467.7 537.5 537.4 534.1 534.1 534.1 441.9 441.6 440.7
537.2 534.0 467.8 467.7 537.2 537.2 534.1 534.1 534.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 431.0	537.6 534.0 467.9 467.7 537.6 537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 432.0 432.0 431.0	537.4 534.1 467.9 467.7 537.4 537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads South Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Shore Entrance Weirs	537.3 534.0 467.9 467.7 537.3 537.2 534.1 534.1 534.1 439.7 439.6 438.6 438.6	537.4 534.1 467.9 467.7 537.4 537.3 534.1 534.1 534.1 439.2 439.2 438.4	537.3 534.0 467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.8 439.7 439.0	537.4 534.1 467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.2 439.1	537.4 534.0 467.9 467.7 537.5 537.3 534.0 534.1 534.1 440.2 440.0	537.0 534.2 468.0 467.7 537.0 537.0 534.0 534.2 534.0 440.6 440.4	537.4 534.1 467.9 467.7 537.5 537.4 534.1 534.1 534.1 441.9 441.6 440.7
534.0 467.8 467.7 537.2 537.2 534.1 534.1 534.1 439.0 438.2 437.7 437.0 429.6 429.6 432.0 431.0	534.0 467.9 467.7 537.6 537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 431.0	534.1 467.9 467.7 537.4 537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	Makeup Diffuser U S Picketed Leads D S Picketed Leads South Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Shore South Powerhouse South Shore Entrance Weirs	534.0 467.9 467.7 537.3 537.2 534.1 534.1 534.1 439.7 439.6 438.6 438.6	534.1 467.9 467.7 537.4 537.3 534.1 534.1 534.1 439.2 439.2 438.4	534.0 467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.8 439.7 439.0	534.1 467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.2 439.1	534.0 467.9 467.7 537.5 537.3 534.0 534.1 534.1 440.2 440.0	534.2 468.0 467.7 537.0 537.0 534.0 534.2 534.0 440.6 440.4	534.1 467.9 467.7 537.5 537.4 534.1 534.1 534.1 441.9 441.6 440.7
467.8 467.7 537.2 537.2 534.1 534.1 534.1 439.1 439.0 438.2 437.7 437.0 429.6 429.6 432.0 431.0	467.9 467.7 537.6 537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 431.0	467.9 467.7 537.4 537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	U S Picketed Leads D S Picketed Leads South Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Shore South Shore Entrance Weirs	467.9 467.7 537.3 537.2 534.1 534.1 534.1 439.7 439.6 438.6 438.6	467.9 467.7 537.4 537.3 534.1 534.1 534.1 439.2 439.2 438.4	467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.8 439.7 439.0	467.9 467.7 537.4 537.4 534.1 534.1 534.1 439.2 439.1	467.9 467.7 537.5 537.3 534.0 534.1 534.1 440.2 440.0	468.0 467.7 537.0 537.0 534.0 534.2 534.0 440.6 440.4	467.9 467.7 537.5 537.4 534.1 534.1 534.1 441.9 441.6 440.7
467.7 537.2 537.2 534.1 534.1 534.1 439.1 439.0 438.2 437.7 437.0 429.6 429.6 432.0 431.0	467.7 537.6 537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 431.0	467.7 537.4 537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	D S Picketed Leads South Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Shore Entrance Weirs	537.3 537.2 534.1 534.1 534.1 534.1 439.7 439.6 438.6 438.6	537.4 537.3 534.1 534.1 534.1 439.2 439.2 438.4 438.0	537.4 537.4 534.1 534.1 534.1 439.8 439.7 439.0	467.7 537.4 537.4 534.1 534.1 534.1 439.2 439.1	537.5 537.3 534.0 534.1 534.1 440.2 440.0	467.7 537.0 537.0 534.0 534.2 534.0 440.6 440.4	467.7 537.5 537.4 534.1 534.1 534.1 441.9 441.6 440.7
537.2 537.2 534.1 534.1 534.1 439.1 439.0 438.2 437.7 437.0 429.6 429.6 432.0 431.0	537.6 537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 431.0	537.4 537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	South Fish Ladder Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Shore Entrance Weirs	537.3 537.2 534.1 534.1 534.1 439.7 439.6 438.6 438.6	537.4 537.3 534.1 534.1 534.1 439.2 439.2 438.4	537.4 537.4 534.1 534.1 534.1 439.8 439.7 439.0	537.4 537.4 534.1 534.1 534.1 439.2 439.1	537.5 537.3 534.0 534.1 534.1 440.2 440.0	537.0 537.0 534.0 534.2 534.0 440.6 440.4	537.5 537.4 534.1 534.1 534.1 441.9 441.6 440.7
537.2 534.1 534.1 534.1 439.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 431.0	537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 431.0	537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	Forebay Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Shore Entrance Weirs	537.2 534.1 534.1 534.1 534.1 439.7 439.6 438.6 438.6	537.3 534.1 534.1 534.1 439.2 439.2 438.4 438.0	537.4 534.1 534.1 534.1 439.8 439.7 439.0	537.4 534.1 534.1 534.1 439.2 439.1	537.3 534.0 534.1 534.1 440.2 440.0	537.0 534.0 534.2 534.0 440.6 440.4	537.4 534.1 534.1 534.1 441.9 441.6 440.7
537.2 534.1 534.1 534.1 439.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 431.0	537.5 534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 431.0	537.4 534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	Exit Pool Makeup Diffuser U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Shore Entrance Weirs	537.2 534.1 534.1 534.1 534.1 439.7 439.6 438.6 438.6	537.3 534.1 534.1 534.1 439.2 439.2 438.4 438.0	537.4 534.1 534.1 534.1 439.8 439.7 439.0	537.4 534.1 534.1 534.1 439.2 439.1	537.3 534.0 534.1 534.1 440.2 440.0	537.0 534.0 534.2 534.0 440.6 440.4	537.4 534.1 534.1 534.1 441.9 441.6 440.7
534.1 534.1 534.1 439.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 431.0	534.1 534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 431.0	534.0 534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	Makeup Diffuser U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Shore Entrance Weirs	534.1 534.1 534.1 439.7 439.6 438.6 438.6	534.1 534.1 534.1 439.2 439.2 438.4 438.0	534.1 534.1 534.1 439.8 439.7 439.0	534.1 534.1 534.1 439.2 439.1	534.0 534.1 534.1 440.2 440.0	534.0 534.2 534.0 440.6 440.4	534.1 534.1 534.1 441.9 441.6 440.7
534.1 534.1 439.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 432.0 431.0	534.1 534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 432.0 431.0	534.2 534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	U S Picketed Leads D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Powerhouse South Shore Entrance Weirs	534.1 534.1 439.7 439.6 438.6 438.6 438.5	534.1 534.1 439.2 439.2 438.4 438.0	534.1 534.1 439.8 439.7 439.0	534.1 534.1 439.2 439.1	534.1 534.1 440.2 440.0	534.2 534.0 440.6 440.4	534.1 534.1 441.9 441.6 440.7
534.1 439.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 431.0	534.1 440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 432.0 431.0	534.0 440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	D S Picketed Leads Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Shore Entrance Weirs	534.1 439.7 439.6 438.6 438.6 438.5	534.1 439.2 439.2 438.4 438.0	534.1 439.8 439.7 439.0	534.1 439.2 439.1	534.1 440.2 440.0	534.0 440.6 440.4	534.1 441.9 441.6 440.7
439.1 439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 432.0 431.0	440.2 440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 432.0 431.0	440.0 439.8 438.9 438.6 438.2 437.8 430.5 430.5	Collection Channels North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Shore Entrance Weirs	439.7 439.6 438.6 438.6 438.5	439.2 439.2 438.4 438.0	439.8 439.7 439.0	439.2 439.1	440.2 440.0	440.6 440.4	441.9 441.6 440.7
439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 432.0 431.0	440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 432.0 431.0	439.8 438.9 438.6 438.2 437.8 430.5 430.5	North Shore South Powerhouse South Shore Tailwater North Shore South Powerhouse South Shore Entrance Weirs	439.6 438.6 438.6 438.5	439.2 438.4 438.0	439.7 439.0	439.1	440.0	440.4	441.6 440.7
439.0 438.2 437.7 437.7 437.0 429.6 429.6 432.0 432.0 431.0	440.0 439.4 438.8 438.7 438.3 430.6 430.6 432.0 432.0 431.0	439.8 438.9 438.6 438.2 437.8 430.5 430.5	South Powerhouse South Shore Tailwater North Shore South Powerhouse South Shore Entrance Weirs	439.6 438.6 438.6 438.5	439.2 438.4 438.0	439.7 439.0	439.1	440.0	440.4	441.6 440.7
438.2 437.7 437.7 437.0 429.6 429.6 432.0 432.0 431.0	439.4 438.8 438.7 438.3 430.6 430.6 432.0 432.0 431.0	438.9 438.6 438.2 437.8 430.5 430.5	South Shore Tailwater North Shore South Powerhouse South Shore Entrance Weirs	438.6 438.5	438.4 438.0	439.0				440.7
437.7 437.7 437.0 429.6 429.6 432.0 432.0 431.0	438.8 438.7 438.3 430.6 430.6 432.0 432.0 431.0	438.6 438.2 437.8 430.5 430.5	Tailwater North Shore South Powerhouse South Shore Entrance Weirs	438.6 438.5	438.0		436.3	439.3	430.0	
437.7 437.0 429.6 429.6 432.0 432.0 431.0	438.7 438.3 430.6 430.6 432.0 432.0 431.0	438.2 437.8 430.5 430.5	North Shore South Powerhouse South Shore Entrance Weirs	438.5		128 6				4.0 -
437.7 437.0 429.6 429.6 432.0 432.0 431.0	438.7 438.3 430.6 430.6 432.0 432.0 431.0	438.2 437.8 430.5 430.5	South Powerhouse South Shore Entrance Weirs	438.5			437.7	438.9	438.8	1106
437.0 429.6 429.6 432.0 432.0 431.0	438.3 430.6 430.6 432.0 432.0 431.0	437.8 430.5 430.5	South Shore Entrance Weirs			438.5	437.7	438.8	438.8	440.6 440.5
429.6 429.6 432.0 432.0 431.0	430.6 430.6 432.0 432.0 431.0	430.5 430.5	Entrance Weirs	437.3						
429.6 432.0 432.0 431.0	430.6 432.0 432.0 431.0	430.5			437.3	437.9	437.1	438.1	437.7	439.6
429.6 432.0 432.0 431.0	430.6 432.0 432.0 431.0	430.5	18/01/21	430.2	429.6	430.6	429.6	430.6	430.5	432.6
432.0 432.0 431.0	432.0 432.0 431.0		NSE-2							
432.0 431.0	432.0 431.0		NSE-2 SPE-1	430.2 432.0	429.6 432.0	430.5 432.0	429.6 432.0	430.6 432.0	430.6 432.0	432.5 432.0
431.0	431.0	432.0	SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0
		431.0	SSE-1	432.0	432.0	432.0	432.0	432.0	432.0	432.0
0.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	0.0	0.0	DIFFERENTIALS/DEPTHS:	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			North Fish Ladder							
0.1	0.0	0.0	Ladder Exit	0.0	0.0	0.1	0.0	0.0	0.0	0.0
1.0	1.0	1.1	Ladder Weirs	1.0	1.1	1.0	1.1	1.0	1.2	1.1
0.1	0.2	0.2	Counting Station	0.2	0.2	0.2	0.2	0.2	0.3	0.2
0.1	0.2	0.2	South Fish Ladder	0.2	0.2	0.2	0.2	0.2	0.3	0.2
0.0	0.1	0.0	Ladder Exit	0.1	0.1	0.0	0.0	0.2	0.0	0.1
1.1	1.1	1.0	Ladder Weirs	1.1	1.1	1.1	1.1	1.0	1.0	1.1
0.0	0.0	0.2	Counting Station	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.0	0.0	0.2	Collection Channels	0.0	0.0	0.0	0.0	0.0	0.2	0.0
1.4	1.4	1.4	North Shore	1.1	1.2	1.2	1.5	1.3	1.8	1.3
1.4	1.3	1.6	South Powerhouse	1.1	1.2	1.2	1.5	1.3	1.6	1.1
1.3	1.1	1.0	South Shore	1.1	1.1	1.1	1.2	1.2	1.0	1.1
1.2	1.1	1.1	Weir Depths	1.1	1.1	1.1	1.2	1.2	1.1	1.1
8.1	8.2	8.1	NSE-1	8.4	8.4	8.0	8.1	8.3	8.3	8.0
8.1	8.2	8.1	NSE-2	8.4	8.4	8.1	8.1	8.3	8.2	8.1
5.7	6.7	6.2	SPE-1	6.5	6.0	6.5	5.6	6.8	6.8	8.5
5.7	6.7	6.2	SPE-2	6.5	6.0	6.5	5.6	6.8	6.8	8.5
6.0	7.3	6.8	SSE-1	6.5	6.3	6.9	6.1	7.1	6.7	8.6
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
0.0	0.0	0.0	CRITERIA POINTS:	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YES	YES	YES	Channel Velocities	YES	YES	YES	YES	YES	YES	YES
1123	1123	1123	Differentials	1123	1123	1123	1123	1123	1123	1123
			North Fish Ladder							
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES
. 115	. 110	120	South Fish Ladder	110	1110	113	1 110	1110	1110	1 113
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES
			Collection Channels							
YES	YES	YES	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-1 NSE-2	YES	YES	YES	YES	YES	YES	YES
SILL	SILL	SILL	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	SILL	SILL	YES
YES	YES	YES	SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES
		· -	0 CRITERIA POINTS: YES							
1	1	1	Channel Velocities	1	1	1	1	1	1	1
			Differentials							
1	1	1	North Fish Ladder Ladder Exit	1	1	1	1	1	1	1
-	1		Laddor Eart	¹ ray	e o			-	1	•

			APPENDIX 1 (CONTINUED).	LOWER M	ONUMENTA	AL ADULT I	TISHWAY II	NSPECTION	NS	2013
11-May	12-May	15-May	DATES:	17-May	18-May	20-May	22-May	24-May	25-May	27-May
2.4	2.3	1.8	CHAN'L VELOCITIES (N):	2.6	2.9	2.7	2.7	2.6	2.5	2.7
			ELEVATIONS:							
			North Fish Ladder							
537.8	537.7	537.4	Forebay	537.2	537.7	537.1	537.8	537.7	537.7	537.6
537.7	537.6	537.4	Exit Pool	537.2	537.6	537.1	537.8	537.6	537.7	537.5
534.0	534.1	534.2	Makeup Diffuser	534.1	534.1	534.1	534.2	534.1	534.1	534.1
467.9	467.9	467.9	U S Picketed Leads	467.9	467.8	467.9	467.9	467.9	467.8	467.9
467.7	467.7	467.8	D S Picketed Leads	467.8	467.7	467.7	467.8	467.7	467.7	467.7
			South Fish Ladder							
537.8	537.7	537.4	Forebay	537.3	537.3	537.1	537.8	537.7	537.8	537.6
537.8	537.6	537.4	Exit Pool	537.2	537.2	537.1	537.7	537.6	537.7	537.5
534.1	534.1	534.0	Makeup Diffuser	534.1	534.1	534.1	534.0	534.1	534.1	534.1
534.1	534.1	534.2	U S Picketed Leads	534.1	534.1	534.1	534.2	534.1	534.1	534.1
534.1	534.1	534.0	D S Picketed Leads	534.1	534.1	534.1	534.0	534.1	534.1	534.1
442.0	442.5	444.5	Collection Channels	442.0	441.0	440.0	440.6	440.4	440.0	440.1
443.0	443.5	444.5	North Shore	442.0	441.9	440.9	440.6	440.4	440.3	440.1
442.9	443.3	444.3	South Powerhouse	441.7	441.4	440.6	440.3	440.1	439.9	440.0
442.0	442.3	443.3	South Shore	440.8	440.7	439.7	439.6	439.6	439.6	439.2
			Tailwater	440.0					4000	
442.0	442.2	443.5	North Shore	440.8	440.5	439.5	439.2	439.1	438.8	438.7
441.8	442.2	443.3	South Powerhouse	440.6	440.4	439.5	439.1	439.0	438.9	438.7
440.9	441.3	442.2	South Shore	439.7	439.6	438.5	438.5	438.5	438.5	438.1
			Entrance Weirs							
434.0	434.2	434.9	NSE-1	432.7	432.5	431.4	431.1	431.0	430.7	430.7
434.0	434.1	435.1	NSE-2	432.7	432.4	431.4	431.1	431.0	430.7	430.6
433.6	434.0	434.9	SPE-1	432.5	432.4	432.0	432.0	432.0	432.0	432.0
433.7	434.0	435.1	SPE-2	432.4	432.3	432.0	432.0	432.0	432.0	432.0
431.0	433.1	434.1	SSE-1	431.5	431.6	431.0	431.0	431.0	431.0	431.0
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			DIFFERENTIALS/DEPTHS:							
			North Fish Ladder							
0.1	0.1	0.0	Ladder Exit	0.0	0.1	0.0	0.0	0.1	0.0	0.1
1.0	1.1	1.2	Ladder Weirs	1.1	1.1	1.1	1.2	1.1	1.1	1.1
0.2	0.2	0.1	Counting Station	0.1	0.1	0.2	0.1	0.2	0.1	0.2
0.0	0.1	0.0	South Fish Ladder	0.1	0.1	0.0	0.1	0.1	0.1	0.1
0.0	0.1	0.0	Ladder Exit	0.1	0.1	0.0	0.1	0.1	0.1	0.1
1.1	1.1	1.0	Ladder Weirs	1.1	1.1	1.1	1.0	1.1	1.1	1.1
0.0	0.0	0.2	Counting Station	0.0	0.0	0.0	0.2	0.0	0.0	0.0
1.0	1.0	1.0	Collection Channels					1.0		
1.0	1.3	1.0	North Shore	1.2	1.4	1.4	1.4	1.3	1.5	1.4
1.1	1.1	1.0	South Powerhouse	1.1	1.0	1.1	1.2	1.1	1.0	1.3
1.1	1.0	1.1	South Shore	1.1	1.1	1.2	1.1	1.1	1.1	1.1
0.0	0.0	0.6	Weir Depths	0.1	0.0	0.1	0.1	0.1	0.1	0.0
8.0	8.0	8.6	NSE-1	8.1	8.0	8.1	8.1	8.1	8.1	8.0
8.0	8.1	8.4	NSE-2	8.1	8.1	8.1	8.1	8.1	8.1	8.1
8.2	8.2	8.4	SPE-1	8.1	8.0	7.5	7.1	7.0	6.9	6.7
8.1	8.2	8.2	SPE-2	8.2	8.1	7.5	7.1	7.0	6.9	6.7
9.9	8.2	8.1	SSE-1	8.2	8.0	7.5	7.5	7.5	7.5	7.1
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
T T C	T.TDG	MEG	CRITERIA POINTS:	T.T.C	MEG	T TO C	1700	T T T T	T/DG	T T D G
YES	YES	YES	Channel Velocities	YES	YES	YES	YES	YES	YES	YES
			Differentials							
MEG	N/E/C	MEG	North Fish Ladder	N/DC	MEG	MEG	\$777.C	MEG	MEG	MEG
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station South Fish Ladder	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES
		- 20	Collection Channels							
YES	YES	YES	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
			Weir Depths							
YES	YES	YES	NSE-1	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	NSE-2	YES	YES	YES	YES	YES	YES	YES
YES YES	YES YES	YES YES	SPE-1 SPE-2	YES YES	YES YES	SILL SILL	SILL SILL	SILL SILL	SILL SILL	SILL SILL
YES	YES	YES	SPE-2 SSE-1	YES	YES	SILL	SILL	SILL	SILL	SILL
YES	YES	YES	SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES
123	120		0. CRITERIA POINTS: YES	120	120	120	123	12.5	12.5	1 2.0
1	1	1	Channel Velocities	1	1	1	1	1	1	1
			Differentials							
			North Fish Ladder							
1	1	l	Ladder Exit	l Fau	1 Je 0	1	1	1	1	1
				· ag	,					

			APPENDIX 1 (CONTINUED).	LOWER M	ONUMENT.	AL ADULT	FISHWAY I	NSPECTION	JS	2013
29-May	1-Jun	2-Jun	DATES:	5-Jun	7-Jun	8-Jun	9-Jun	12-Jun	14-Jun	15-Jun
2.5	2.4	2.5	CHAN'L VELOCITIES (N):	2.8	2.8	2.5	2.7	2.3	2.5	2.2
			ELEVATIONS:							
			North Fish Ladder							
537.6	537.6	537.9	Forebay	537.2	537.4	537.6	537.3	537.4	537.6	537.5
537.5	537.5	537.8	Exit Pool	537.2	537.2	537.5	537.3	537.3	537.5	537.4
534.2	534.1	534.1	Makeup Diffuser	534.1	534.1	534.1	534.1	534.1	534.1	534.0
467.9	467.8	467.9	U S Picketed Leads	467.9	467.9	467.9	467.9	467.9	467.9	467.9
467.8	467.7	467.7	D S Picketed Leads	467.7	467.7	467.7	467.7	467.7	467.7	467.7
			South Fish Ladder							
537.6	537.6	537.9	Forebay	537.2	537.4	537.7	537.3	537.4	537.6	537.5
537.5	537.5	537.8	Exit Pool	537.2	537.2	537.5	537.1	537.3	537.4	537.4
534.0	534.0	534.1	Makeup Diffuser	534.0	534.0	534.0	534.1	534.2	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
534.0	534.0	534.1	D S Picketed Leads	534.0	534.0	534.0	534.1	534.0	534.1	534.0
120 7	440.2	440.0	Collection Channels	440.0	440.4	110.0	110.6	440.0	440.0	440.0
439.7	440.2	440.0	North Shore	440.2	440.4	440.9	440.6	440.0	440.2	440.0
439.7	439.8	439.7	South Powerhouse	440.2	440.2	440.6	440.4	439.8	439.9	439.7
438.8	439.2	438.9	South Shore	438.5	439.1	439.8	439.3	438.6	438.8	438.6
120.6	420.7	120.6	Tailwater	420.5	120.0	420.7	420.0	420.6	420.7	120.6
438.6	438.7	438.6	North Shore	438.5	439.2	439.7	439.2	438.6	438.7	438.6
438.6	438.7	438.5	South Powerhouse	438.3	439.1	439.5	439.1	438.1	438.6	438.6
437.6	438.1	437.6	South Shore	437.2	438.0	438.6	438.3	437.5	437.6	437.4
420.0	420 -	420 -	Entrance Weirs	420 -	421.0	421.5	421.1	420.5	120 -	420.4
430.2	430.6	430.6	NSE-1	430.6	431.0	431.5	431.1	430.5	430.6	430.4
430.2	430.6	430.6	NSE-2	430.5	431.0	431.4	431.0	430.5	430.6	430.5
432.0	432.0	432.0	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
431.0	431.0	431.0	SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			DIFFERENTIALS/DEPTHS:							
			North Fish Ladder							
0.1	0.1	0.1	Ladder Exit	0.0	0.2	0.1	0.0	0.1	0.1	0.1
1.2	1.1	1.1	Ladder Weirs	1.1	1.1	1.1	1.1	1.1	1.1	1.0
0.1	0.1	0.2	Counting Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0.1	0.1	0.1	South Fish Ladder	0.0	0.2	0.2	0.2	0.1	0.2	0.1
0.1	0.1	0.1	Ladder Exit	0.0	0.2	0.2	0.2	0.1	0.2	0.1
1.0	1.0	1.1	Ladder Weirs	1.0	1.0	1.0	1.1	1.2	1.1	1.0
0.1	0.0	0.0	Counting Station	0.1	0.0	0.0	0.0	0.0	0.0	0.0
1.1	1.5	1.4	Collection Channels	1.7	1.0	1.0	1.4	1.4	1.5	1.4
1.1	1.5	1.4	North Shore	1.7	1.2	1.2	1.4	1.4	1.5	1.4
1.1	1.1	1.2	South Powerhouse	1.9	1.1	1.1	1.3	1.7	1.3	1.1
1.2	1.1	1.3	South Shore	1.3	1.1	1.2	1.0	1.1	1.2	1.2
8.4	8.1	8.0	Weir Depths NSE-1	7.9	0.2	0.2	0.1	8.1	0.1	8.2
	8.1	8.0 8.0	NSE-1 NSE-2	7.9 8.0	8.2 8.2	8.2 8.3	8.1 8.2	8.1 8.1	8.1 8.1	8.2 8.1
8.4										
6.6	6.7	6.5	SPE-1	6.3	7.1	7.5	7.1	6.1	6.6	6.6
6.6	6.7	6.5	SPE-2	6.3	7.1	7.5	7.1	6.1	6.6	6.6
6.6	7.1	6.6	SSE-1	6.2	7.0	7.6	7.3	6.5	6.6	6.4
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
T/D0	T TOO	MEG	CRITERIA POINTS:	T.TDG	MEG	T.TEG	MEG	T.T.C	MEG	T T T C
YES	YES	YES	Channel Velocities Differentials	YES	YES	YES	YES	YES	YES	YES
MEG	VEG	VEC	North Fish Ladder	VEG	WEG	MEG	MEG	VEC	MEG	MEG
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs Counting Station	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	South Fish Ladder	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES
			Collection Channels		~	-	-	-	-	
YES	YES	YES	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
*****	***	·	Weir Depths	***	****	****	****	****	****	*****
YES	YES	YES	NSE-1	NO	YES	YES	YES	YES	YES	YES
YES SILL	YES	YES	NSE-2	YES SILL	YES SILL	YES SILL	YES	YES	YES	YES SILL
SILL	SILL SILL	SILL SILL	SPE-1 SPE-2	SILL	SILL	SILL	SILL SILL	SILL SILL	SILL SILL	SILL
SILL	SILL	SILL	SSE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL
YES	YES	YES	SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES
	- 20		0 CRITERIA POINTS: YES	- 20						
1	1	1	Channel Velocities	1	1	1	1	1	1	1
			Differentials							
			North Fish Ladder							
1	1	1	Ladder Exit	l Faç	1 I	ı	I	1	1	1

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			APPENDIX 1 (CONTINUED).	LOWER MO	ONUMENTA	AL ADULT I	FISHWAY I	NSPECTION	JS	2013
16-Jun	19-Jun	21-Jun	DATES:	22-Jun	23-Jun	26-Jun	28-Jun	29-Jun	30-Jun	3-Jul
2.3	1.7	2	CHAN'L VELOCITIES (N):	2.1	2	2.2	2.1	2.2	2.2	2
			ELEVATIONS:							
			North Fish Ladder							
537.9	537.3	537.7	Forebay	537.8	537.5	537.6	537.6	537.6	537.8	537.6
537.7	537.1	537.7	Exit Pool	537.7	537.5	537.6	537.5	537.6	537.8	537.6
534.0	534.2	534.0	Makeup Diffuser	534.1	534.0	534.2	534.1	534.2	534.1	534.2
467.9	467.9	467.9	U S Picketed Leads	467.9	467.9	467.9	467.9	468.0	467.9	468.0
467.7	467.7	467.8	D S Picketed Leads	467.8	467.7	467.7	467.7	467.8	467.7	467.8
			South Fish Ladder							
537.8	537.3	537.7	Forebay	537.8	537.5	537.6	537.5	537.6	537.8	537.6
537.6	537.3	537.7	Exit Pool	537.8	537.5	537.6	537.5	537.6	537.8	537.6
534.0	534.0	534.0	Makeup Diffuser	534.0	534.0	534.0	534.1	534.0	534.1	534.0
534.0	534.0	534.0	U S Picketed Leads	534.0	534.0	534.2	534.1	534.1	534.1	534.2
534.0	534.0	534.0	D S Picketed Leads	534.0	534.0	534.0	534.1	534.0	534.1	534.0
439.8	420.0	440.1	Collection Channels North Shore	439.4	439.5	439.0	439.4	439.2	439.4	439.3
	439.0			439.4						
439.6	438.8	439.9	South Powerhouse		439.3	439.0	439.2	439.2	439.2	439.3
438.7	438.0	439.3	South Shore	438.5	438.5	438.1	438.4	438.2	438.6	438.4
420.2	127.5	420.0	Tailwater	420.2	120.2	427.0	420.1	420.0	420.1	427.0
438.3	437.5	438.8	North Shore	438.2	438.2	437.8	438.1	438.0	438.1	437.8
438.3	437.3	438.8	South Powerhouse	438.0	438.1	437.6	438.0	437.6	438.0	437.8
437.6	436.8	438.1	South Shore	437.3	437.5	436.9	437.2	437.0	437.4	437.3
120.2	420.4	420.0	Entrance Weirs	420 O	420.2	420.9	120.0	420.0	420.0	420.9
430.3	429.4	430.8	NSE-1	430.0	430.2	429.8	430.0	429.9	430.0	429.8
430.3	429.4	430.7	NSE-2	430.0	430.1	429.7	430.0	429.9	430.0	429.8
432.0	432.0	430.0	SPE-1 SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0
432.0	432.0	430.0		432.0	432.0	432.0	432.0	432.0	432.0	432.0
431.0	431.0	430.0	SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			DIFFERENTIALS/DEPTHS:							
0.2	0.2	0.0	North Fish Ladder	0.1	0.0	0.0	0.1	0.0	0.0	0.0
0.2	0.2	0.0	Ladder Exit	0.1	0.0	0.0	0.1	0.0	0.0	0.0
1.0	1.2	1.0	Ladder Weirs	1.1	1.0	1.2	1.1	1.2	1.1	1.2
0.2	0.2	0.1	Counting Station	0.1	0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.0	0.0	South Fish Ladder	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.0	Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0	1.0	1.0	Ladder Weirs	1.0	1.0	1.0	1.1	1.0	1.1	1.0
0.0	0.0	0.0	Counting Station	0.0	0.0	0.2	0.0	0.1	0.0	0.2
1.5	1.5	1.2	Collection Channels	1.2	1.2	1.0	1.2	1.0	1.2	1.5
1.5	1.5	1.3	North Shore	1.2	1.3	1.2	1.3	1.2	1.3	1.5
1.3	1.5	1.1	South Powerhouse	1.2	1.2	1.4	1.2	1.6	1.2	1.5
1.1	1.2	1.2	South Shore	1.2	1.0	1.2	1.2	1.2	1.2	1.1
0.0	0.1	0.0	Weir Depths	0.2	0.0	0.0	0.1	0.1	0.1	0.0
8.0	8.1	8.0	NSE-1	8.2	8.0	8.0	8.1	8.1	8.1	8.0
8.0	8.1	8.1	NSE-2	8.2	8.1	8.1	8.1	8.1	8.1	8.0
6.3	5.3	8.8	SPE-1	6.0	6.1	5.6	6.0	5.6	6.0	5.8
6.3	5.3	8.8	SPE-2	6.0	6.1	5.6	6.0	5.6	6.0	5.8
6.6	5.8	8.1	SSE-1	6.3	6.5	5.9	6.2	6.0	6.4	6.3
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
MEG	T TO G	T/TDC	CRITERIA POINTS:	T T C	MEG	T.TDG	MEG	MEG	TADO.	T T T C
YES	YES	YES	Channel Velocities	YES						
			Differentials							
MEG	T/D0	\$2DG	North Fish Ladder	MEG	MEG	MO	MEG	MEG	MEG	MEG
YES	YES	YES	Ladder Exit	YES						
YES	YES	YES	Ladder Weirs Counting Station	YES						
YES	YES	YES	South Fish Ladder	YES						
YES	YES	YES	Ladder Exit	YES						
YES	YES	YES	Ladder Weirs	YES						
YES	YES	YES	Counting Station	YES						
-	-		Collection Channels	~	-	-	-	-		
YES	YES	YES	North Shore	YES						
YES	YES	YES	South Powerhouse	YES						
YES	YES	YES	South Shore	YES						
****	****		Weir Depths	****	****	****	****	****	*mc	*****
YES	YES	YES	NSE-1	YES						
YES	YES	YES	NSE-2	YES						
SILL SILL	SILL SILL	SILL SILL	SPE-1 SPE-2	SILL SILL						
SILL	SILL	SILL	SPE-2 SSE-1	SILL						
YES	YES	YES	SSE-1 (feet above sill)	YES						
			0 CRITERIA POINTS: YES							
1	1	1	Channel Velocities	1	1	1	1	1	1	1
			Differentials							
		1	North Fish Ladder	1					1	1
1	1	1	Ladder Exit	rau	le o	1	1	1	1	1
					•					

S-Jul G-Jul 7-Jul DATES: 10-Jul 12-Jul 13-Jul 17-Jul 19-	1 20-Jul 1.6 537.3 537.2 534.1 468.0 467.8 537.3 537.2 534.0 534.1 534.0 439.0 439.0 439.0 439.0 439.0 437.4 437.3 437.1	2013 21-Jul 2 537.4 537.4 534.1 467.9 467.7 537.4 534.1 534.1 534.1 534.1 438.9 437.9
2.2 1.8 2 CHAN'L VELOCITIES (N): ELEVATIONS: ELEVATIONS: North Fish Ladder North Fish Ladder 537.5 537.4 537.7 Forebay 537.5 537.8 537.7 537.8 537.7 537.5 537.4 537.7 Exit Pool 537.5 537.8 537.6 537.8 537.8 534.1 534.1 Makeup Diffuser 534.2 534.0 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.0 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.0 534.1 534.1 534.0 534.1 534.1 534.0 534.1 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 5	1.6 537.3 537.2 534.1 468.0 467.8 537.3 537.2 534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1	2 537.4 537.4 534.1 467.9 467.7 537.4 534.1 534.1 534.1 438.9 437.9
STATE STAT	537.3 537.2 534.1 468.0 467.8 537.3 537.2 534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1	537.4 537.4 534.1 467.9 467.7 537.4 537.4 534.1 534.1 534.1 438.9 437.9
537.5 537.4 537.7 Forebay 537.5 537.8 537.7 537.8 537.7 537.5 537.4 537.7 Exit Pool 537.5 537.8 537.6 537.8 537.8 534.1 534.1 534.1 Makeup Diffuser 534.2 534.0 534.1 467.9 468.0 467.9 468.0 467.9 468.0 467.9 468.0 467.9 467.7 467.8 467.7 467.8 467.7 467.8 467.7	537.2 534.1 468.0 467.8 537.3 537.2 534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1	537.4 534.1 467.9 467.7 537.4 537.4 534.1 534.1 534.1 438.9 437.9
537.5 537.4 537.7 Exit Pool 537.5 537.8 537.6 537.8 537.6 534.1 534.1 534.1 Makeup Diffuser 534.2 534.0 534.1 534.8 467.7 467.8 467.7 467.8 467.7 467.8 467.7 467.8 467.7 467.8 467.7 467.8 467.7 467.8 467.7 467.8 467.7 467.8 467.7 467.8 467.7 467.7 467.8 467.7 467.7 467.8 467.7	537.2 534.1 468.0 467.8 537.3 537.2 534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1	537.4 534.1 467.9 467.7 537.4 537.4 534.1 534.1 534.1 438.9 437.9
534.1 534.1 Makeup Diffuser 534.2 534.0 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 534.1 667.9 467.9 467.9 U S Picketed Leads 4667.7 467.7 467.7 467.8 467.7 467.8 467.7 467.7 467.7 467.7 467.7 467.7 467.8 467.7 500.0 <t< td=""><td>534.1 468.0 467.8 537.3 537.2 534.0 534.1 534.0 439.0 439.0 439.0 438.3 437.4 437.3 437.1</td><td>534.1 467.9 467.7 537.4 537.4 534.1 534.1 534.1 438.9 438.9 437.9</td></t<>	534.1 468.0 467.8 537.3 537.2 534.0 534.1 534.0 439.0 439.0 439.0 438.3 437.4 437.3 437.1	534.1 467.9 467.7 537.4 537.4 534.1 534.1 534.1 438.9 438.9 437.9
467.9 467.9 467.9 U S Picketed Leads 468.0 467.9 468.0 468.0 467.7 467.8 467.8 467.7 D S Picketed Leads 467.7 467.7 467.7 467.8 467.8 537.5 537.4 537.8 Forebay 537.5 537.8 537.7 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.8 537.6 537.8 537.8 537.6 537.8 537.8 537.6 537.8 537.8 537.6 537.8 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1	468.0 467.8 537.3 537.2 534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1	467.9 467.7 537.4 537.4 534.1 534.1 534.1 438.9 438.9 437.9
467.8 467.8 467.7 D S Picketed Leads 467.7 467.7 467.7 467.8 467.7 537.5 537.4 537.8 Forebay 537.5 537.8 537.7 537.8 537.6 537.8 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.6 534.0 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 </td <td>537.3 537.2 534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1</td> <td>467.7 537.4 537.4 534.1 534.1 534.1 438.9 437.9</td>	537.3 537.2 534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1	467.7 537.4 537.4 534.1 534.1 534.1 438.9 437.9
South Fish Ladder 537.5 537.4 537.8 Forebay 537.5 537.8 537.7 537.8 537.5 537.5 537.3 537.8 Exit Pool 537.5 537.8 537.6 537.8 537.6 537.8 537.5 537.8 537.6 537.8 537.6 537.8 537.6 537.8 537.1 534.1 534.0 534.0 534.1 534.0 534.1 534.0 534.0 534.1 534.0 534.0 534.1 534.0 534.0 534.1 534.0 534.0 534.1 534.0 534.0 534.1 534.0 534.0 534.1 534.0 534.0 534.1 534.0 534.0 534.1 534.0 534.0 534.1 534.0 534.0 534.1 53	537.3 537.2 534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1	537.4 537.4 534.1 534.1 534.1 438.9 437.9
537.5 537.4 537.8 Forebay 537.5 537.8 537.7 537.8 534.0 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 <	537.2 534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1	537.4 534.1 534.1 534.1 438.9 438.9 437.9
537.5 537.3 537.8 Exit Pool 537.5 537.8 537.6 537.8 534.0 534.1 438.2 438.2 438.2 438.2 438.2	537.2 534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1	537.4 534.1 534.1 534.1 438.9 438.9 437.9
534.1 534.0 534.1 Makeup Diffuser 534.0 534.1 534.0	534.0 534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1	534.1 534.1 534.1 438.9 438.9 437.9
534.1 534.0 534.1 U S Picketed Leads 534.2 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.1 534.0 534.0 534.1 534.0 439.2 438.1 438.1 438.1 438.1 438.1 438.1 438.1 438.1 437.8 438.1 437.5 <td>534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1 429.3</td> <td>534.1 534.1 438.9 438.9 437.9</td>	534.1 534.0 439.0 439.0 438.3 437.4 437.3 437.1 429.3	534.1 534.1 438.9 438.9 437.9
534.1 534.0 534.1 D S Picketed Leads 534.0 534.1 534.0 438.2 439.6 439.2 438.1 438.1 438.1 438.1 438.1 438.1 438.1 438.1 438.1 437.5 437.1 437.5 437.4 437.3 438.1 437.5 437.4 437.3 437.8 437.4 437.4 437.4 437.2 437.0 437.0 437.0 437.0 437.0 <td>534.0 439.0 439.0 438.3 437.4 437.3 437.1 429.3</td> <td>534.1 438.9 438.9 437.9</td>	534.0 439.0 439.0 438.3 437.4 437.3 437.1 429.3	534.1 438.9 438.9 437.9
Collection Channels 439.5 438.5 439.0 North Shore 439.6 438.9 439.6 439.2 438.4 439.3 438.5 438.9 South Powerhouse 439.0 438.9 439.3 439.1 438.1 438.5 437.7 438.1 South Shore 438.3 437.8 438.5 438.1 438.1 438.1 437.5 437.4 437.3 438.1 437.5 437.4 437.4 437.3 437.8 437.4 437.4 437.4 437.5 South Powerhouse 437.6 437.3 437.8 437.4 437.4 437.4 437.2 437.0 437.4 437.4 437.5 South Shore 437.0 437.2 437.0 437.4 437.4 437.2 437.0 437.0 437.2 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0	439.0 439.0 438.3 437.4 437.3 437.1	438.9 438.9 437.9
439.5 438.5 439.0 North Shore 439.6 438.9 439.6 439.2 438.2 439.3 438.5 438.9 South Powerhouse 439.0 438.9 439.3 439.1 438.1 438.5 437.7 438.1 South Shore 438.3 437.8 438.5 438.1 438.1 438.5 Tailwater 438.2 437.2 437.6 North Shore 438.4 437.3 438.1 437.5 437.4 438.1 437.0 437.5 South Powerhouse 437.6 437.3 437.8 437.4 437.4 437.4 436.5 436.7 South Shore 437.0 436.7 437.2 437.0 437. Entrance Weirs 430.1 429.2 429.5 NSE-1 430.0 429.2 430.1 429.3 429.1 432.0 432.0 432.0 SPE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 <t< td=""><td>439.0 438.3 437.4 437.3 437.1 429.3</td><td>438.9 437.9 437.2</td></t<>	439.0 438.3 437.4 437.3 437.1 429.3	438.9 437.9 437.2
439.3 438.5 438.9 South Powerhouse 439.0 438.9 439.3 439.1 438.1 438.1 438.1 438.3 437.8 438.5 438.1 438.1 438.1 438.1 438.5 438.1 438.1 438.1 438.2 437.2 437.6 North Shore 438.4 437.3 438.1 437.5 437.4 437.4 437.2 437.0 437.4 437.4 437.2 437.0 437.0 437.2 437.0 437	439.0 438.3 437.4 437.3 437.1 429.3	438.9 437.9 437.2
438.5 437.7 438.1 South Shore 438.3 437.8 438.5 438.1 438.1 438.2 437.2 437.6 North Shore 438.4 437.3 438.1 437.5 437.4 438.1 437.0 437.5 South Powerhouse 437.6 437.3 437.8 437.4 437.4 437.4 436.5 436.7 South Shore 437.0 436.7 437.2 437.0 437.2 Entrance Weirs 430.1 429.2 429.5 NSE-1 430.0 429.2 430.1 429.3 429.3 432.0 432.0 432.0 SPE-1 432.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0	438.3 437.4 437.3 437.1 429.3	437.9 437.2
Tailwater 438.2 437.2 437.6 North Shore 438.4 437.3 438.1 437.5 437.4 437.4 437.3 437.8 437.4 437.4 437.4 437.2 437.0 437.2 437.0 437.2 437.0 437.2 437.0 437.2 437.0 437.2 437.0 437.0 437.2 437.0 437.0 437.2 437.0 437.0 437.2 437.0 437.0 437.2 437.0 437.0 437.2 437.0 437.0 437.2 437.0 437.0 437.0 437.0 437.0 437.0 437.2 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 439.0 429.2 430.1 429.3 429.3 429.3 429.3 429.3 429.1 430.1 429.1 429.1 429.1 429.1 429.1 429.1 429.1 432.0 432.0 432.0 432.0 432.0 432.	437.4 437.3 437.1 429.3	437.2
438.1 437.0 437.5 South Powerhouse 437.6 437.3 437.8 437.4 437.4 437.2 437.0 437.2 437.0 437.0 437.2 437.0 437.0 437.0 437.2 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 437.0 429.3 429.3 429.3 429.3 429.3 429.3 429.1 430.1 429.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 <td>437.3 437.1 429.3</td> <td></td>	437.3 437.1 429.3	
437.4 436.5 436.7 South Shore Entrance Weirs 437.0 436.7 437.2 437.0 437.2 430.1 429.2 429.5 NSE-1 430.0 429.2 430.1 429.3 429.3 430.1 429.2 429.5 NSE-2 429.9 429.1 430.1 429.1 429.1 432.0 432.0 432.0 SPE-1 432.0 432.0 432.0 432.0 432.0 431.0 431.0 431.0 SSE-1 431.0 431.0 431.0 431.0 431.0 431.0	437.1 429.3	
Entrance Weirs 430.1 429.2 429.5 NSE-1 430.0 429.2 430.1 429.3 429.3 429.4 430.1 429.2 429.5 NSE-2 429.9 429.1 430.1 429.1 429.1 429.1 432.0 <td>429.3</td> <td>437.2</td>	429.3	437.2
430.1 429.2 429.5 NSE-1 430.0 429.2 430.1 429.3 429.3 430.1 429.2 429.5 NSE-2 429.9 429.1 430.1 429.1 429.1 432.0 432.0 432.0 SPE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SPE-2 432.0 432.0 432.0 432.0 432.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0		436.7
430.1 429.2 429.5 NSE-2 429.9 429.1 430.1 429.1 429.1 432.0 432.0 432.0 SPE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SPE-2 432.0 432.0 432.0 432.0 432.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0		
432.0 432.0 432.0 SPE-1 432.0	429.2	429.1
432.0 432.0 432.0 SPE-2 432.0 432.0 432.0 432.0 432.0 432.0 432.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0 431.0	,	429.0
431.0 431.0 431.0 SSE-1 431.0 431.0 431.0 431.0 431		432.0
		432.0
60 60 SSE-2 (feet above sill) 60 60 60 60 60		431.0
· · · · · · · · · · · · · · · · · · ·	6.0	6.0
DIFFERENTIALS/DEPTHS:		
North Fish Ladder		
0.0 0.0 0.0 Ladder Exit 0.0 0.0 0.1 0.0 0.	0.1	0.0
1.1 1.1 1.1 Ladder Weirs 1.2 1.0 1.1 1.1 1.	1.1	1.1
0.1 0.1 0.2 Counting Station 0.3 0.2 0.3 0.2 0.	0.2	0.2
South Fish Ladder 0.0 0.1 0.0 Ladder Exit 0.0 0.0 0.1 0.0 0.	0.1	0.0
0.0 0.1 0.0 Ladder Exit 0.0 0.0 0.1 0.0 0. 1.1 1.0 1.1 Ladder Weirs 1.0 1.1 1.0 1.0 1.	1.0	1.1
0.0 0.0 0.0 Counting Station 0.2 0.0 0.0 0.1 0.	0.1	0.0
Collection Channels	0.1	0.0
1.3 1.4 North Shore 1.2 1.6 1.5 1.7 1.	1.6	1.7
1.2 1.5 1.4 South Powerhouse 1.4 1.6 1.5 1.7 1.	1.7	1.7
1.1 1.2 1.4 South Shore 1.3 1.1 1.3 1.1 1.	1.2	1.2
Weir Depths	1.2	
8.1 8.0 8.1 NSE-1 8.4 8.1 8.0 8.2 8.	8.1	8.1
8.1 8.0 8.1 NSE-2 8.5 8.2 8.0 8.4 8.	8.2	8.2
6.1 5.0 5.5 SPE-1 5.6 5.3 5.8 5.4 5.	5.3	5.2
6.1 5.0 5.5 SPE-2 5.6 5.3 5.8 5.4 5.	5.3	5.2
6.4 5.5 5.7 SSE-1 6.0 5.7 6.2 6.0 6.	6.1	5.7
6.0 6.0 6.0 SSE-2 (feet above sill) 6.0 6.0 6.0 6.0 6.	6.0	6.0
CRITERIA POINTS:		
YES YES YES Channel Velocities NA YES YES YES YES	YES	YES
Differentials		
North Fish Ladder		
YES YES YES Ladder Exit YES YES YES YES YES		YES
YES YES YES Ladder Weirs YES		YES
YES YES YES Counting Station YES	YES	YES
YES YES YES Ladder 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
Collection Channels		
YES YES YES North Shore YES YES YES YES YES		YES
YES YES YES South Powerhouse YES		YES
YES YES YES South Shore YES YES YES YES YES YES	YES	YES
Weir Depths YES YES YES NSE-1 YES	YES	YES
YES YES YES NSE-2 YES YES YES YES YES YES		YES
SILL SILL SILL SPE-1 SILL SILL SILL SILL SI		SILL
SILL SILL SILL SPE-2 SILL SILL SILL SIL	SILL	SILL
SILL SILL SILL SILL SILL SILL SILL SIL		SILL
YES YES YES SSE-2 (feet above sill) YES YES YES YES YES YES	YES	YES
(Output = 0, CRITERIA POINTS: YES 1 1 1 Channel Velocities NA 1 1 1 1	1	1
Differentials	-	1
North Fish Ladder		
1 1 1 Ladder Exit 1 1 1 1 1		
Fage 9	1	1

1-9 20-bul				APPENDIX 1 (CONTINUED).	LOWER M	ONUMENTA	AL ADULT I	FISHWAY I	NSPECTION	NS	2013
19	24-Jul	26-Jul	27-Jul								
Fig.							-	-		_	-
1975 1972 1972 1972 1972 1972 1972 1973 1973 1975											
Section Sect				North Fish Ladder							
1848	537.5	537.2	537.2	Forebay	537.7	537.5	537.5	537.6	537.5	537.6	537.5
1480 4880 4895	537.5	537.2	537.1	Exit Pool	537.7	537.5	537.4	537.6	537.5	537.6	537.5
	534.2	534.0	534.1	Makeup Diffuser	534.1	534.2	534.1	534.2	534.1	534.1	534.1
Second S			467.9	U S Picketed Leads			467.9	468.0		468.0	
S37.4 S37.2 S37.2 S37.5 S37.6 S37.6 S37.6 S37.6 S37.5 S37.6 S37.5 S37.	467.7	467.7	467.7		467.7	467.7	467.7	467.8	467.7	467.8	467.7
SAI-1 SAI-				-							
1541 5340 5341 05 5341 05 5341 5340 5341											
Same				-							
1400											
1430.0 438.9 438.8 North Shore 438.9 439.4 438.9 438.8 438.8 439.0	534.0	534.0	534.1		534.1	534.0	534.1	534.0	534.1	534.1	534.0
439.0 438.9 438.8 South Prove-chouse 438.9 439.2 438.8 438.8 439.8 439.0 439.0 437.8 437.5 437.5 437.8 438.0 438.1 437.1 437.5 437.5 437.8 437.5 437.8 438.0 437.1 437.1 437.5 437.3 347.2 South Prove-chouse 437.4 437.5 437.4 436.9 437.3 437.9 437.1 437.4 437.2 South Prove-chouse 437.4 437.5 437.4 436.9 437.3 437.9 437.1 437.4 437.2 South Prove-chouse 437.4 437.5 437.4 436.9 437.3 437.9 429.0 429.4 429.3 NSE-1 429.1 429.5 429.5 429.0 429.0 429.8 429.0 429.0 429.4 429.3 NSE-2 429.1 429.5 429.0 429.0 429.0 429.0 429.0 432.0 432.0 432.0 SPE-2 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SSE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SSE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SSE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SSE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SSE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SSE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0	4000	4000	4000		4000	100 1	4000	4000	1000		4000
1871 1871											
Tailwater Tail											
437.1 437.5 437.3 North Norce 427.4 437.5 436.8 437.1 438.0 437.1 437.1 437.1 437.2 437.3 437.2 436.8 437.1 436.6 436.8 436.6 436.8 436.6 436.8	437.8	438.1	438.1		437.9	438.2	438.0	437.5	437.8	438.0	438.1
437.1	427.2	405.5	107.0		105.1	105.5	405.5	12.50	127.1	120.0	107.1
	436.7	436.9	436.8		436.8	437.0	436.8	436.4	436.6	436.8	436.9
429.0 429.4 429.3 NSF-2 429.1 429.5 429.6 429.0 429.0 429.0 432.	400.0	420.4	400.0		420.2	400.5	420.5	420.0	420.0	420.0	420.0
432.0 432.0 432.0 87P-1 432.0 432.											
432.0											
431.0											
Column C											
North Fish Ladder											
North Fish Ladder Nort	6.0	6.0	6.0	· · · · · · · · · · · · · · · · · · ·	6.0	6.0	6.0	6.0	6.0	6.0	6.0
O.O.											
1.2	0.0	0.0	0.1		0.0	0.0	0.1	0.0	0.0	0.0	0.0
O.3											
Note Section Section											
O.0	0.3	0.3	0.2	9	0.2	0.3	0.2	0.2	0.3	0.2	0.2
1.0	0.0	0.0	0.1		0.1	0.0	0.0	0.0	0.1	0.1	0.0
0.1											
1.8											
1.8	0.1	0.0	0.0	_	0.0	0.1	0.0	0.1	0.0	0.0	0.2
1.9	1.0	1.4	1.5		1.5	1.7	1.4	2.0	1.7	1.4	1.7
1.1											
North Fish Ladder YES											
8.2 8.1 8.0 NSE-1 8.2 8.2 8.0 7.8 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.1 8.2 8.1 8.1 8.1 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	1.1	1.2	1.3		1.1	1.2	1.2	1.1	1.2	1.2	1.2
8.2 8.1 8.0 NSE-2 8.3 8.2 8.1 7.8 8.1 8.2 8.1 5.1 5.4 5.2 SPE-1 5.4 5.5 5.4 4.9 5.3 5.9 5.1 5.1 5.4 5.2 SPE-1 5.4 5.5 5.4 4.9 5.3 5.9 5.1 5.7 5.9 5.8 SSE-1 5.8 6.0 5.8 5.4 4.9 5.3 5.9 5.1 5.7 5.9 5.8 SSE-1 5.8 6.0 5.8 5.4 4.9 5.3 5.9 5.1 5.7 COUNTERIA POINTS: VES YES YES YES Channel Velocities YES	0.2	0.1	0.0	=	0.2	9.2	9.0	7.0	0.1	0.2	0.1
S.1											
S.1											
5.7 5.9 5.8 SSE-1 5.8 6.0 5.8 5.4 5.6 5.8 5.9											
CRITERIA POINTS: YES YES											
YES											
YES	0.0	0.0	0.0	` ,	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Fish Ladder	VEC	VEC	VEC		VEC	VEC	VEC	VEC	VEC	VEC	VEC
North Fish Ladder	1123	1123	1123		1123	1123	1123	1123	ILS	1123	1123
YES YES <td></td>											
YES YES <td>VES</td> <td>VES</td> <td>VES</td> <td></td> <td>VES</td> <td>VES</td> <td>VES</td> <td>VES</td> <td>VES</td> <td>VES</td> <td>VES</td>	VES	VES	VES		VES	VES	VES	VES	VES	VES	VES
YES YES <td></td>											
South Fish Ladder											
YES YES <td>1111</td> <td>110</td> <td>120</td> <td></td> <td>110</td> <td>110</td> <td>110</td> <td>110</td> <td>110</td> <td>110</td> <td>110</td>	1111	110	120		110	110	110	110	110	110	110
YES YES <td>YES</td> <td>YES</td> <td>YES</td> <td></td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td>	YES	YES	YES		YES	YES	YES	YES	YES	YES	YES
VES											
YES YES <td>YES</td> <td>YES</td> <td>YES</td> <td></td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td>	YES	YES	YES		YES	YES	YES	YES	YES	YES	YES
YES YES YES South Powerhouse YES	_									_	
YES YES South Shore Weir Depths YES											
YES											
YES YES NSE-1 YES YES YES NO YES YES YES YES	YES	YES	YES		YES	YES	YES	YES	YES	YES	YES
YES YES NSE-2 YES YES YES NO YES YES YES SILL	VEC	VEC	VEC		VEC	VEC	VEC	NO	VEC	VEC	VEC
SILL SILL <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
SILL SILL <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
SILL SILL <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
YES YES SSE-2 (feet above sill) YES											
1 1 1 Channel Velocities 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	YES	YES			YES	YES	YES	YES	YES	YES	YES
Differentials North Fish Ladder Ladder Exit 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
North Fish Ladder	1	1	1		1	1	1	1	1	1	1
1 1 1 Ladder Exit 1 1 1 1 1 1 1 1 1											
Fage 10	1	1	1		1	1	1	1	1	1	1
				EMUOCI EAIT	гау	e 10					

			APPENDIX 1 (CONTINUED).	LOWER MO	ONUMENTA	AL ADULT I	FISHWAY II	NSPECTION	NS	2013
10-Aug	11-Aug	14-Aug	DATES:	16-Aug	17-Aug	18-Aug	21-Aug	23-Aug	24-Aug	25-Aug
1.6	1.7	1.7	CHAN'L VELOCITIES (N): ELEVATIONS:	1.7	1.6	1.7	1.6	1.8	1.7	1.8
			North Fish Ladder							
537.4	537.4	537.2	Forebay	537.4	537.4	537.2	537.4	537.6	537.5	537.5
537.4	537.4	537.2	Exit Pool	537.4	537.3	537.2	537.4	537.6	537.5	537.5
534.1	534.1	534.1	Makeup Diffuser	534.1	534.1	534.1	534.1	534.0	534.1	534.1
468.0	468.0	468.1	U S Picketed Leads	467.8	467.9	467.8	467.9	467.8	467.9	467.9
467.8	467.7	467.8	D S Picketed Leads South Fish Ladder	467.7	467.7	467.7	467.7	467.7	467.7	467.7
537.5	537.2	537.2	Forebay	537.4	537.4	537.1	537.4	537.6	537.5	537.5
537.4	537.2	537.2	Exit Pool	537.4	537.3	537.1	537.4	537.6	537.5	537.5
534.0	534.1	534.0	Makeup Diffuser	534.1	534.0	534.0	534.0	534.0	534.0	534.1
534.0	534.1	534.1	U S Picketed Leads	534.1	534.0	534.0	534.0	534.0	534.0	534.1
534.0	534.1	534.0	D S Picketed Leads Collection Channels	534.1	534.0	534.0	534.0	534.0	534.0	534.1
438.7	438.7	438.9	North Shore	438.8	438.8	438.8	438.8	438.5	439.0	438.9
438.7	438.7	438.8	South Powerhouse	438.8	438.8	438.7	438.6	438.5	438.9	438.8
438.0	438.2	438.0	South Shore Tailwater	438.0	438.2	438.0	437.4	437.9	438.7	438.5
437.3	437.2	437.2	North Shore	437.2	437.6	437.3	437.0	437.0	437.6	437.2
437.2	437.2	437.1	South Powerhouse	437.2	437.6	437.2	436.4	437.0	437.6	437.2
436.9	437.0	436.9	South Shore Entrance Weirs	437.0	437.2	436.9	436.1	436.8	437.6	437.4
429.0	429.0	429.2	NSE-1	429.2	429.3	429.2	429.0	429.0	429.4	429.2
429.0	429.0	429.2	NSE-2	429.2	429.2	429.2	429.0	429.0	429.3	429.1
432.0	432.0	432.0	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
431.0	431.0	431.0	SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.0
6.0	6.0	6.0	SSE-2 (feet above sill) DIFFERENTIALS/DEPTHS:	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			North Fish Ladder							
0.0	0.0	0.0	Ladder Exit	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1.1	1.1	1.1	Ladder Weirs	1.1	1.1	1.1	1.1	1.0	1.1	1.1
0.2	0.3	0.3	Counting Station	0.1	0.2	0.1	0.2	0.1	0.2	0.2
			South Fish Ladder							
0.1	0.0	0.0	Ladder Exit	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1.0	1.1	1.0	Ladder Weirs	1.1	1.0	1.0	1.0	1.0	1.0	1.1
0.0	0.0	0.1	Counting Station Collection Channels	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.4	1.5	1.7	North Shore	1.6	1.2	1.5	1.8	1.5	1.4	1.7
1.5 1.1	1.5 1.2	1.7 1.1	South Powerhouse South Shore	1.6 1.0	1.2 1.0	1.5 1.1	2.2 1.3	1.5 1.1	1.3 1.1	1.6 1.1
			Weir Depths							
8.3	8.2	8.0	NSE-1	8.0	8.3	8.1	8.0	8.0	8.2	8.0
8.3	8.2	8.0	NSE-2	8.0	8.4	8.1	8.0	8.0	8.3	8.1
5.2	5.2	5.1	SPE-1	5.2	5.6	5.2	4.4	5.0	5.6	5.2
5.2	5.2	5.1	SPE-2	5.2	5.6	5.2	4.4	5.0	5.6	5.2
5.9	6.0	5.9	SSE-1	6.0	6.2	5.9	5.1	5.8	6.6	6.4
6.0	6.0	6.0	SSE-2 (feet above sill) CRITERIA POINTS:	6.0	6.0	6.0	6.0	6.0	6.0	6.0
YES	YES	YES	Channel Velocities Differentials North Fish Ladder	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station South Fish Ladder	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station Collection Channels	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	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 Weir Depths	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	NSE-1	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	NSE-2	YES	YES	YES	YES	YES	YES	YES
SILL	SILL	SILL	SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SILL SILL	SILL	SILL	SPE-2	SILL SILL	SILL	SILL	SILL	SILL	SILL	SILL
YES	SILL YES	SILL YES	SSE-1 SSE-2 (feet above sill)	SILL YES	SILL YES	SILL YES	SILL YES	SILL YES	SILL YES	SILL YES
1	1	(Output = 1	0. CRITERIA POINTS: YES Channel Velocities Differentials	1	1	1	1	1	1	1
1	1	1	North Fish Ladder Ladder Exit	1	1	1	1	1	1	1
				Faye	- 11					

Second S				APPENDIX 1 (CONTINUED).	LOWER MO	ONUMENT	AL ADULT I	FISHWAY I	NSPECTION	ıs	2013
18	26-Aug	28-Aug	30-Aug								
Section Sect	-	_		CHAN'L VELOCITIES (N):	_	-	-	_	-	-	
S370 S372 S374 Fochsly S374 S378 S392 S395 S396 S392 S375 S391 S395 S392 S375 S391 S395 S392 S375 S391 S395 S392 S375 S391 S395 S392 S395				ELEVATIONS:							
S371 S372 S373 S378 S373 S378 S392 S391 S395 S392 S375 S311 S342 S341 S342 S343				North Fish Ladder							
1541 5342	537.9	537.2	537.4	Forebay	537.4	537.8	539.2	539.5	539.6	539.2	537.7
1457 487	537.9	537.2	537.3	Exit Pool	537.3	537.8	539.2	539.4	539.5	539.2	537.5
161-20	534.1	534.2	534.1	Makeup Diffuser	534.1	534.1	534.1	534.0	534.1	534.2	534.1
Section Sect	467.9	468.1	467.9	U S Picketed Leads	468.0	467.9	468.2	467.9	468.1	468.0	468.1
1979 1972 1974	467.7	467.8	467.7	D S Picketed Leads	467.8	467.7	467.8	467.8	467.7	467.8	467.8
				South Fish Ladder							
SAIL	537.9	537.2	537.4	Forebay	537.4	537.9	539.2	539.5	539.5	539.1	539.6
1541 5340 5341 US Pickentel Leads	537.8	537.2	537.3	Exit Pool	537.3	537.8	539.2	539.4	539.4	539.0	539.5
Sale	534.1	534.0	534.1	Makeup Diffuser	534.1	534.1	534.0	534.0	534.1	534.0	534.1
Collection Col	534.1	534.0	534.1	U S Picketed Leads	534.1	534.1	534.0	534.0	534.1	534.1	534.1
438, 438, 438, 438, North Store 438, 438, 440,	534.1	534.0	534.1	D S Picketed Leads	534.1	534.1	534.0	534.0	534.1	534.0	534.1
438.8 439.0 438.5 South Proverchouse 438.6 443.8 440.7 440.7 440.7 440.5 440.7 440.8 440.7 440.8 440.7 440.8 440.7 440.8 440.7 440.8 440.7 440.8 440.7 440.8											
1848 4378 4381 South Shore											
Tailwater State						438.8	440.5	440.7			440.3
437.5 437.1 437.1 North Shore	438.4	437.8	438.1		437.9	438.7	440.2	440.3	440.3	439.7	440.3
437.6 437.0 437.0 South Powerhouse 436.8 437.6 439.2 439.2 439.3 438.6 439.0 437.4 436.7 437.0 South Shore 436.8 437.6 439.2 439.2 439.1 438.6 439.0 429.0 429.0 429.0 NSE-1 429.0 429.5 431.0 431.4 431.3 430.6 431.2 432.0 432.0 432.0 SPE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SPE-1 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SPE-2 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SPE-2 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SPE-2 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SSE-2 432.0 432.0 432.0 432.0 432.0 432.0 432.0 SSE-2 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0				Tailwater							
143.0 436.7 437.0 8.00 8.00 436.8 427.6 439.2 439.2 439.1 438.6 439.1 429.5 429.0 429.0 8.00 8.00 8.00 429.0 429.5 431.0 431.4 431.3 430.6 431.1 432.0 432.0 432.0 8.00 8.00 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 432.0 8.00 8.00 4.00 4.00 4.00 4.00 4.00 430.0 430.0 8.00 8.00 8.00 8.00 8.00 8.00 8.00 400.0 6.0 6.0 8.0 8.00 8.00 8.00 8.00 8.00 400.0 6.0 6.0 8.00 8.00 8.00 8.00 8.00 8.00 500.0 7.00 1.00 1.00 1.00 1.00 1.00 1.00 1.1 1.2 1.1 1.00 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.0 1.1 1.00 1.1 1.00 1.0 1.0 1.0 1.1 1.0 1.1 1.00 1.1 1.00 1.0 1.0 1.0 1.1 1.0 1.1 1.00 1.1 1.0 1.1 1.0 1.1 1.1 1.0 1.1 1.00 1.1 1.00 1.0 1.0 1.0 1.1 1.0 1.1 1.00 1.1 1.0 1.1 1.0 1.1 1.1 1.0 1.1 1.00 1.1 1.0 1.1 1.0 1.1 1.1 1.0 1.1 1.00 1.1 1.0 1.1 1.0 1.1 1.1 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.1 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.1 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.0 1.1 1.1 1.0 1.1 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.0 1.0 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.0 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.0 1.0 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.0 1.0 1.1 1.1 1.0 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0		437.1	437.1	North Shore	436.9	437.5	439.1	439.6	439.3	438.7	439.2
Part	437.5	437.0	437.0	South Powerhouse	436.9	437.5	439.2	439.5	439.3	438.6	439.0
	437.4	436.7	437.0	South Shore	436.8	437.6	439.2	439.2	439.1	438.6	439.1
429.0 429.0 429.0 898E-2 429.0 429.4 431.0 431.4 431.2 432.0 432											
432.0 432.0 432.0 87P-1 432.0 432.											
432.0 432.0 432.0 878-2 432.0 432.											
431.0	432.0	432.0	432.0		432.0	432.0	432.0	432.0	432.0	432.0	432.0
Color Colo	432.0	432.0	432.0	SPE-2	432.0	432.0	432.0	432.0	432.0	432.0	432.0
North Fish Ladder	431.0	431.0	431.0	SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.1
North Fish Ladder 1,1	6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
0.0				DIFFERENTIALS/DEPTHS:							
1.1				North Fish Ladder							
O.2	0.0	0.0	0.1	Ladder Exit	0.1	0.0	0.0	0.1	0.1	0.0	0.2
South Fish Ladder Sout	1.1	1.2	1.1	Ladder Weirs	1.1	1.1	1.1	1.0	1.1	1.2	1.1
O.1	0.2	0.3	0.2	Counting Station	0.2	0.2	0.4	0.1	0.4	0.2	0.3
1.1				South Fish Ladder							
1.4	0.1	0.0	0.1	Ladder Exit	0.1	0.1	0.0	0.1	0.1	0.1	0.1
1.4				Ladder Weirs	1.1	1.1	1.0	1.0		1.0	1.1
1.4	0.0	0.0	0.0	_	0.0	0.0	0.0	0.0	0.0	0.1	0.0
1.3											
1.0											
North Fish Ladder YES	1.3		1.5	South Powerhouse	1.7	1.3	1.3	1.2		1.5	
8.0 8.1 8.1 NSE-1 7.9 8.0 8.1 8.2 8.0 8.1 8.0 8.1 8.1 8.1 NSE-2 7.9 8.1 8.1 8.2 8.0 8.1 8.1 8.1 8.1 8.1 NSE-2 7.9 8.1 8.1 8.2 8.0 8.1 8.1 8.1 8.5 5.0 5.0 5.0 SPE-1 4.9 5.5 7.2 7.5 7.3 6.6 7.0 5.5 5.0 5.0 SPE-2 4.9 5.5 7.2 7.5 7.3 6.6 7.0 6.4 5.7 6.0 SSE-1 5.8 6.6 8.2 8.2 8.1 7.6 8.0 6.0 6.0 6.0 6.0 SSE-2 (feet above sill) 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 CRITERIA POINTS: YES YES Channel Velocities YES YES YES YES YES YES YES YES YES WES YES YES Ladder Exit YES	1.0	1.1	1.1		1.1	1.1	1.0	1.1	1.2	1.1	1.2
8.1 8.1 8.1 NSE-2 7.9 8.1 8.1 8.2 8.1 8.1 8.1 8.5 5.5 5.0 5.0 SPE-1 4.9 5.5 7.2 7.5 7.3 6.6 7.0 6.4 5.7 6.0 SSE-1 5.8 6.6 8.2 8.2 8.1 7.6 8.0 6.0 6.0 6.0 SSE-2 (feet above sill) 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 CRITERIA POINTS: YES YES YES Channel Velocities YES				=							
S.5											
S.5										8.1	
6.4 5.7 6.0 SSE-1 5.8 6.6 8.2 8.2 8.1 7.6 8.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6			5.0							6.6	
CRITERIA POINTS: YES	5.5		5.0		4.9	5.5		7.5	7.3	6.6	7.0
VES	6.4		6.0			6.6		8.2	8.1	7.6	
YES	6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
North Fish Ladder YES											
North Fish Ladder	YES	YES	YES		YES	YES	YES	YES	YES	YES	YES
YES YES <td></td>											
YES YES <td></td> <td></td> <td></td> <td>North Fish Ladder</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				North Fish Ladder							
YES YES <td></td>											
South Fish Ladder											
YES YES <td>YES</td> <td>YES</td> <td>YES</td> <td></td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td> <td>YES</td>	YES	YES	YES		YES	YES	YES	YES	YES	YES	YES
YES YES <td>T.T.C</td> <td>*****</td> <td>1000</td> <td></td> <td>T.T.C</td> <td>1777.0</td> <td>*****</td> <td>*****</td> <td>*****</td> <td>1700</td> <td>1,770.0</td>	T.T.C	*****	1000		T.T.C	1777.0	*****	*****	*****	1700	1,770.0
YES YES Counting Station YES											
VES											
YES YES <td>1 E S</td> <td>1ES</td> <td>1 ES</td> <td></td> <td>1 ES</td> <td>1ES</td> <td>1 ES</td> <td>1 ES</td> <td>1 ES</td> <td>1ES</td> <td>1 ES</td>	1 E S	1ES	1 ES		1 ES	1ES	1 ES	1 ES	1 ES	1ES	1 ES
YES YES YES South Powerhouse YES	YES	YES	YFS		YES	YES	YES	YES	YES	YES	YES
YES YES South Shore Weir Depths YES											
YES											
YES YES NSE-1 NO YES YES <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>_</td> <td>-</td> <td>-</td> <td>.=</td>					-	-	-	_	-	-	.=
SILL SILL <th< td=""><td></td><td></td><td></td><td>NSE-1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>				NSE-1							
SILL SILL <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
SILL SILL SILL SILL SILL YES YES YES SILL YES YES											
YES YES SSE-2 (feet above sill) YES											
(Output = 0. CRITERIA POINTS: YES 1											
1 1 1 Channel Velocities 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	iES	YES			YES	YES	YES	YES	YES	YES	YES
Differentials North Fish Ladder Ladder Exit Ladder Ladde	1	1			1	1	1	1	1	1	1
North Fish Ladder											
1 1 1 Ladder Exit 1 1 1 1 1 1 1 1											
Fage 12	1	1	1		1	1	1	1	1	1	1
					raye	; IZ					

			APPENDIX 1 (CONTINUED).	LOWER MO	ONUMENTA	AL ADULT I	TISHWAY II	NSPECTION	NS	2013
9-Sep	11-Sep	13-Sep	DATES:	14-Sep	15-Sep	18-Sep	21-Sep	22-Sep	25-Sep	26-Sep
2	2	1.9	CHAN'L VELOCITIES (N):	1.9	1.6	2.0	1.8	2.0	1.8	1.9
			ELEVATIONS:							
			North Fish Ladder							
539.5	539.8	539.4	Forebay	539.0	539.5	539.3	537.9	538.0	539.2	539.1
539.4	539.6	539.3	Exit Pool	538.9	539.5	539.3	537.8	537.9	539.2	538.8
534.0	534.0	534.1	Makeup Diffuser	534.1	534.1	534.1	534.1	534.1	534.1	534.1
468.0	468.0	468.1	U S Picketed Leads	468.1	468.1	468.2	467.9	467.9	468.0	467.9
467.8	467.9	467.8	D S Picketed Leads	467.8	467.7	467.8	467.7	467.7	467.8	467.7
			South Fish Ladder							
539.6	539.8	539.4	Forebay	539.0	539.5	539.3	537.9	537.9	539.2	539.1
539.3	539.5	539.3	Exit Pool	538.9	539.4	539.2	537.8	537.9	539.2	538.9
534.0	534.0	534.1	Makeup Diffuser	534.0	534.1	534.0	534.0	534.0	534.0	534.0
534.0	534.1	534.1	U S Picketed Leads	534.0	534.1	534.0	534.1	534.1	534.1	534.0
534.0	534.0	534.1	D S Picketed Leads	534.0	534.1	534.0	534.0	534.0	534.0	534.0
			Collection Channels							
440.9	440.4	440.1	North Shore	440.0	439.9	440.5	439.6	440.2	440.5	440.4
440.6	440.3	440.0	South Powerhouse	439.9	439.9	440.2	439.5	440.0	440.4	440.2
440.6	440.0	439.7	South Shore	439.9	439.6	439.9	439.2	439.6	440.2	440.4
			Tailwater							
439.6	439.0	438.7	North Shore	438.6	438.4	439.2	438.1	438.7	439.3	439.0
439.5	439.0	438.6	South Powerhouse	438.6	438.4	439.0	438.1	438.7	439.2	439.0
439.5	439.0	438.6	South Shore	438.7	438.5	438.8	438.1	438.5	439.1	439.4
			Entrance Weirs							
431.5	430.0	430.5	NSE-1	430.4	430.4	431.0	430.2	430.7	431.1	430.9
431.5	430.0	430.5	NSE-2	430.4	430.4	431.0	430.1	430.6	431.1	430.9
432.0	432.0	432.0	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
431.5	431.0	431.0	SSE-1	431.0	431.0	431.0	431.0	431.0	431.0	431.3
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			DIFFERENTIALS/DEPTHS:							
			North Fish Ladder							
0.1	0.2	0.1	Ladder Exit	0.1	0.0	0.0	0.1	0.1	0.0	0.3
1.0	1.0	1.1	Ladder Weirs	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0.2	0.1	0.3	Counting Station	0.3	0.4	0.4	0.2	0.2	0.2	0.2
			South Fish Ladder							
0.3	0.3	0.1	Ladder Exit	0.1	0.1	0.1	0.1	0.0	0.0	0.2
1.0	1.0	1.1	Ladder Weirs	1.0	1.1	1.0	1.0	1.0	1.0	1.0
0.0	0.1	0.0	Counting Station	0.0	0.0	0.0	0.1	0.1	0.1	0.0
			Collection Channels							
1.3	1.4	1.4	North Shore	1.4	1.5	1.3	1.5	1.5	1.2	1.4
1.1	1.3	1.4	South Powerhouse	1.3	1.5	1.2	1.4	1.3	1.2	1.2
1.1	1.0	1.1	South Shore	1.2	1.1	1.1	1.1	1.1	1.1	1.0
			Weir Depths							
8.1	9.0	8.2	NSE-1	8.2	8.0	8.2	7.9	8.0	8.2	8.1
8.1	9.0	8.2	NSE-2	8.2	8.0	8.2	8.0	8.1	8.2	8.1
7.5	7.0	6.6	SPE-1	6.6	6.4	7.0	6.1	6.7	7.2	7.0
7.5	7.0	6.6	SPE-2	6.6	6.4	7.0	6.1	6.7	7.2	7.0
8.0	8.0	7.6	SSE-1	7.7	7.5	7.8	7.1	7.5	8.1	8.1
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			CRITERIA POINTS:							
YES	YES	YES	Channel Velocities	YES	YES	YES	YES	YES	YES	YES
			Differentials							
			North Fish Ladder				_			_
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES
VEC	VEC	VEC	South Fish Ladder	VEC	VEC	VEC	VEC	VEC	VEC	VEC
YES YES	YES YES	YES YES	Ladder Exit Ladder Weirs	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES
YES	YES	YES	Counting Station	YES	YES	YES	YES YES	YES YES	YES	YES YES
1 123	1 LO	1 123	Collection Channels	1179	113	1123	1123	LLO	LEO	1 123
YES	YES	YES	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
			Weir Depths							
YES	YES	YES	NSE-1	YES	YES	YES	NO	YES	YES	YES
YES	YES	YES	NSE-2	YES	YES	YES	YES	YES	YES	YES
SILL	SILL	SILL	SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SILL YES	SILL YES	SILL SILL	SPE-2 SSE-1	SILL SILL	SILL SILL	SILL	SILL	SILL SILL	SILL YES	SILL YES
YES	YES	YES	SSE-1 SSE-2 (feet above sill)	YES	YES	SILL YES	SILL YES	YES	YES	YES YES
110	110		0. CRITERIA POINTS: YES	(Output = 0		110	110	1170	110	1110
1	1	1	Channel Velocities	1	1	1	1	1	1	1
			Differentials							
			North Fish Ladder							
1	1	1	Ladder Exit	l Faye	1	1	1	1	1	1
				. ag						

			APPENDIX 1 (CONTINUED).	LOWER M	ONUMENTA	AL ADULT	FISHWAY I	NSPECTION	JS	2013
27-Sep	28-Sep	29-Sep	DATES:	2-Oct	4-Oct	5-Oct	7-Oct	9-Oct	10-Oct	12-Oct
1.9	2.0	1.9	CHAN'L VELOCITIES (N):	1.9	1.8	2.2	1.8	1.9	1.8	1.9
			ELEVATIONS:							
			North Fish Ladder							
538.7	539.2	539.2	Forebay	539.6	539.1	539.1	539.4	539.2	539.0	539.1
538.5	539.0	539.0	Exit Pool	539.2	538.8	539.0	539.0	538.8	539.0	539.0
534.0	534.1	534.1	Makeup Diffuser	534.1	534.1	534.1	534.0	534.1	534.1	534.1
467.9	467.9	467.9	U S Picketed Leads	468.0	467.9	468.0	468.0	468.0	467.9	467.9
467.7	467.7	467.7	D S Picketed Leads	467.8	467.7	467.8	467.7	467.8	467.8	467.7
			South Fish Ladder							
538.8	539.2	539.3	Forebay	539.6	539.0	539.2	539.3	539.2	539.0	539.1
538.7	539.1	539.1	Exit Pool	539.6	538.8	539.1	539.2	539.1	538.9	539.0
534.0	534.0	534.0	Makeup Diffuser	534.0	534.0	534.0	534.0	534.1	534.0	534.0
534.1	534.0	534.1	U S Picketed Leads	534.1	534.1	534.1	534.0	534.2	534.0	534.0
534.0	534.0	534.0	D S Picketed Leads	534.0	534.0	534.0	534.0	534.1	534.0	534.0
			Collection Channels							
440.9	440.4	440.1	North Shore	440.0	440.2	440.6	440.9	440.2	440.6	440.8
440.7	439.9	439.9	South Powerhouse	439.8	440.1	440.4	440.8	440.1	440.6	440.4
440.7	440.1	439.8	South Shore	439.7	440.3	440.2	440.5	440.0	440.3	440.5
			Tailwater							
439.7	439.0	438.7	North Shore	438.6	438.9	439.2	439.5	438.8	439.2	439.4
439.6	438.9	438.7	South Powerhouse	438.6	438.9	439.1	439.5	438.8	439.3	439.2
439.7	439.1	438.7	South Shore	438.6	439.3	439.1	439.4	438.9	439.2	439.4
404 -	424 -		Entrance Weirs	400 -				400 :	404 :	101 :
431.7	431.0	430.7	NSE-1	430.5	430.8	431.1	431.4	430.6	431.1	431.4
431.6	431.0	430.7	NSE-2	430.5	430.8	431.2	431.5	430.6	431.2	431.4
432.0	432.0	432.0	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
431.6	431.0	431.0	SSE-1	431.0	431.2	431.0	431.4	431.0	431.1	431.0
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			DIFFERENTIALS/DEPTHS:							
			North Fish Ladder							
0.2	0.2	0.2	Ladder Exit	0.4	0.3	0.1	0.4	0.4	0.0	0.1
1.0	1.1	1.1	Ladder Weirs	1.1	1.1	1.1	1.0	1.1	1.1	1.1
0.2	0.2	0.2	Counting Station	0.2	0.2	0.2	0.3	0.2	0.1	0.2
			South Fish Ladder							
0.1	0.1	0.2	Ladder Exit	0.0	0.2	0.1	0.1	0.1	0.1	0.1
1.0	1.0	1.0	Ladder Weirs	1.0	1.0	1.0	1.0	1.1	1.0	1.0
0.1	0.0	0.1	Counting Station	0.1	0.1	0.1	0.0	0.1	0.0	0.0
1.0			Collection Channels		1.2					
1.2	1.4	1.4	North Shore	1.4	1.3	1.4	1.4	1.4	1.4	1.4
1.1	1.0	1.2	South Powerhouse	1.2	1.2	1.3	1.3	1.3	1.3	1.2
1.0	1.0	1.1	South Shore	1.1	1.0	1.1	1.1	1.1	1.1	1.1
0.0	0.0	0.0	Weir Depths	0.1	0.1	0.1	0.1	0.2	0.1	0.0
8.0	8.0	8.0	NSE-1	8.1	8.1	8.1	8.1	8.2	8.1	8.0
8.1	8.0	8.0	NSE-2	8.1	8.1	8.0	8.0	8.2	8.0	8.0
7.6	6.9	6.7	SPE-1	6.6	6.9	7.1	7.5	6.8	7.3	7.2
7.6	6.9	6.7	SPE-2	6.6	6.9	7.1	7.5	6.8	7.3	7.2
8.1	8.1	7.7	SSE-1	7.6	8.1	8.1	8.0	7.9	8.1	8.4
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
VEC	VEC	VEC	CRITERIA POINTS:	VEC	VEC	VEC	VEC	VEC	VEC	VEC
YES	YES	YES	Channel Velocities Differentials	YES	YES	YES	YES	YES	YES	YES
VEC	VEC	VEC	North Fish Ladder	VEC	VEC	VEC	VEC	VEC	VEC	VEC
YES	YES	YES	Ladder Exit Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES YES	YES YES	YES YES	Counting Station	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES
113	1123	110	South Fish Ladder	113	1123	1123	110	1123	1123	1 123
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES
			Collection Channels							
YES	YES	YES	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 YES	NSE-1 NSE-2	YES	YES	YES YES	YES	YES	YES	YES YES
SILL	SILL	SILL	NSE-2 SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SILL	SILL	SILL	SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL
YES	YES	SILL	SSE-1	SILL	YES	YES	YES	SILL	YES	YES
YES	YES	YES	SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES
			CRITERIA POINTS: YES	(Output = 0)	, 1, or NA)					
1	1	1	Channel Velocities	1	1	1	1	1	1	1
			Differentials							
1	1	1	North Fish Ladder Ladder Exit	1	1	1	1	1	1	1
	1	1	Ladder LAII	гау	U 14			1		1

			APPENDIX 1 (CONTINUED).	LOWER M	ONUMENT	AL ADULT	FISHWAY I	NSPECTION	NS	2013
15-Oct	16-Oct	17-Oct	DATES:	21-Oct	22-Oct	23-Oct	24-Oct	28-Oct	29-Oct	30-Oct
1.8	2.0	1.9	CHAN'L VELOCITIES (N):	1.8	1.7	1.9	2.1	1.8	1.9	2.3
			ELEVATIONS:							
			North Fish Ladder							
539.0	539.0	538.7	Forebay	539.1	538.9	539.0	539.1	539.0	539.1	539.1
538.9	539.0	538.6	Exit Pool	539.1	538.9	539.0	539.0	539.0	539.1	539.0
534.1	534.0	534.0	Makeup Diffuser	534.0	534.0	534.0	534.0	534.0	534.0	534.0
467.9 467.7	468.0 467.8	467.9 467.7	U S Picketed Leads D S Picketed Leads	468.0 467.7	467.9 467.7	468.0 467.7	468.0	468.6 467.7	467.9 467.7	467.9 467.7
467.7	407.8	407.7	South Fish Ladder	407.7	467.7	467.7	467.8	407.7	407.7	407.7
538.9	539.1	538.6	Forebay	539.1	538.9	539.0	539.2	539.0	539.0	539.2
538.8	539.0	538.5	Exit Pool	539.0	538.7	539.0	539.1	539.0	538.9	539.0
534.0	534.0	534.0	Makeup Diffuser	534.0	534.0	534.0	534.0	534.0	534.0	534.0
534.1	534.0	534.0	U S Picketed Leads	534.0	534.0	534.1	534.0	534.1	534.1	534.0
534.0	534.0	534.0	D S Picketed Leads	534.0	534.0	534.0	534.0	534.0	534.0	534.0
			Collection Channels							
440.5	440.7	440.4	North Shore	439.8	439.4	440.3	440.0	440.1	440.5	440.2
439.9	440.7	440.3	South Powerhouse	439.5	439.4	439.9	439.8	439.7	440.1	440.2
440.2	440.4	439.9	South Shore	439.3	439.6	439.9	439.6	440.0	440.5	439.9
			Tailwater							
439.1	439.3	439.0	North Shore	438.3	438.0	438.9	438.5	438.7	439.1	438.8
438.8	439.4	439.0	South Powerhouse	438.3	438.0	438.8	438.5	438.7	439.1	438.9
439.0	439.3	438.8	South Shore	438.2	438.6	438.8	438.5	438.9	439.4	438.8
			Entrance Weirs							
430.7	431.1	430.8	NSE-1	430.0	429.8	430.6	430.4	430.6	431.0	430.5
430.7	431.2	430.9	NSE-2	430.2	429.8	430.6	430.4	430.6	431.0	430.7
432.0	432.0	432.0	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
431.0	431.2	431.0	SSE-1	431.0	431.0	431.0	431.0	431.0	431.3	431.0
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			DIFFERENTIALS/DEPTHS:							
		0.4	North Fish Ladder				0.4			
0.1	0.0	0.1	Ladder Exit	0.0	0.0	0.0	0.1	0.0	0.0	0.1
1.1	1.0	1.0	Ladder Weirs	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.2	0.2	0.2	Counting Station	0.3	0.2	0.3	0.2	0.9	0.2	0.2
0.1	0.1	0.1	South Fish Ladder Ladder Exit	0.1	0.2	0.0	0.1	0.0	0.1	0.2
1.0	1.0	1.0	Ladder Weirs	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.1	0.0	0.0	Counting Station	0.0	0.0	0.1	0.0	0.1	0.1	0.0
0.1	0.0	0.0	Collection Channels	0.0	0.0	0.1	0.0	0.1	0.1	0.0
1.4	1.4	1.4	North Shore	1.5	1.4	1.4	1.5	1.4	1.4	1.4
1.1	1.3	1.3	South Powerhouse	1.2	1.4	1.1	1.3	1.0	1.0	1.3
1.2	1.1	1.1	South Shore	1.1	1.0	1.1	1.1	1.1	1.1	1.1
	***		Weir Depths		110	***	•••	•••	•••	
8.4	8.2	8.2	NSE-1	8.3	8.2	8.3	8.1	8.1	8.1	8.3
8.4	8.1	8.1	NSE-2	8.1	8.2	8.3	8.1	8.1	8.1	8.1
6.8	7.4	7.0	SPE-1	6.3	6.0	6.8	6.5	6.7	7.1	6.9
6.8	7.4	7.0	SPE-2	6.3	6.0	6.8	6.5	6.7	7.1	6.9
8.0	8.1	7.8	SSE-1	7.2	7.6	7.8	7.5	7.9	8.1	7.8
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			CRITERIA POINTS:							
YES	YES	YES	Channel Velocities	YES	YES	YES	YES	YES	YES	YES
			Differentials							
			North Fish Ladder							
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	NO	YES	YES
YES	YES	VEC	South Fish Ladder Ladder Exit	YES	YES	YES	YES	VEC	VEC	VEC
YES	YES	YES YES	Ladder Weirs	YES	YES	YES	YES	YES YES	YES YES	YES YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES
		- 20	Collection Channels							
YES	YES	YES	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
VEC	VEC	VEG	Weir Depths	WEG	VEC	VEC	MEG	VEC	MEG	VEC
YES YES	YES YES	YES YES	NSE-1 NSE-2	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES
SILL	SILL	SILL	SPE-1	SILL	SILL	SILL	SILL	SILL	SILL	SILL
SILL	SILL	SILL	SPE-2	SILL	SILL	SILL	SILL	SILL	SILL	SILL
YES	YES	SILL	SSE-1	SILL	SILL	SILL	SILL	SILL	YES	SILL
YES	YES	YES	SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES
			CRITERIA POINTS: YES	(Output = 0)						
I	1	1	Channel Velocities Differentials	I	1	1	1	1	1	1
			North Fish Ladder							
1	1	1	Ladder Exit	1	1	1	1	1	1	1
				Fay	e io					

			APPENDIX 1 (CONTINUED).	LOWER M	ONUMENT	AL ADULT	FISHWAY I	NSPECTIO	NS	
31-Oct	4-Nov	7-Nov	DATES:	9-Nov	12-Nov	13-Nov	14-Nov	18-Nov	19-Nov	20-Nov
2.0	1.8	1.8	CHAN'L VELOCITIES (N):	2.2	2.0	1.9	1.8	1.9	1.8	1.8
			ELEVATIONS:							
			North Fish Ladder							
538.9	539.2	539.1	Forebay	539.0	539.1	539.4	538.8	539.3	538.9	539.1
538.9	539.1	539.0	Exit Pool	539.0	539.0	539.3	538.6	539.1	538.7	538.9
534.0	534.0	534.0	Makeup Diffuser	534.1	534.0	534.0	534.0	534.0	534.0	534.0
467.9	468.5	467.9	U S Picketed Leads	467.9	467.9	467.9	467.8	467.8	467.8	467.8
467.7	467.7	467.7	D S Picketed Leads	467.7	467.7	467.7	467.7	467.7	467.7	467.7
539.0	539.2	539.1	South Fish Ladder Forebay	539.1	539.1	539.5	538.9	539.4	539.0	539.1
538.9	539.2	539.1	Exit Pool	539.1	539.1	539.3	538.8	539.4	538.9	539.1
534.0	534.0	534.0	Makeup Diffuser	534.0	534.0	534.0	534.0	534.0	534.0	534.0
534.1	534.1	534.0	U S Picketed Leads	534.1	534.1	534.1	534.1	534.0	534.0	534.0
534.0	534.0	534.0	D S Picketed Leads	534.0	534.0	534.0	534.0	534.0	534.0	534.0
			Collection Channels							
440.4	440.5	439.8	North Shore	440.7	439.8	440.2	440.4	440.4	440.6	440.2
440.0	440.5	439.6	South Powerhouse	440.5	439.7	439.9	439.8	440.3	440.6	440.1
439.9	440.2	439.3	South Shore	440.1	439.6	439.7	439.8	440.0	440.3	439.7
			Tailwater							
439.0	439.3	438.3	North Shore	439.4	438.3	438.8	438.9	439.0	439.4	439.0
439.0	439.2	438.4	South Powerhouse	439.3	438.5	438.7	438.7	439.0	439.5	439.0
438.8	439.2	438.1	South Shore	438.9	438.5	438.6	438.6	438.9	439.1	438.6
			Entrance Weirs							
431.0	430.8	430.2	NSE-1	431.3	430.2	430.6	430.9	430.8	431.2	430.7
430.7	431.0	429.8	NSE-2	431.0	429.0	431.0	430.8	430.8	431.1	430.6
432.0	432.0	432.0	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
431.0	431.0 6.0	431.0 6.0	SSE-1 SSE-2 (feet above sill)	431.0	431.0 6.0	431.0 6.0	431.0	431.0 6.0	431.0 6.0	431.0 6.0
6.0	0.0	6.0	DIFFERENTIALS/DEPTHS:	6.0	0.0	0.0	6.0	0.0	0.0	0.0
			North Fish Ladder							
0.0	0.1	0.1	Ladder Exit	0.0	0.1	0.1	0.2	0.2	0.2	0.2
1.0	1.0	1.0	Ladder Weirs	1.1	1.0	1.0	1.0	1.0	1.0	1.0
0.2	0.8	0.2	Counting Station	0.2	0.2	0.2	0.1	0.1	0.1	0.1
			South Fish Ladder							
0.1	0.1	0.1	Ladder Exit	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1.0	1.0	1.0	Ladder Weirs	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.1	0.1	0.0	Counting Station	0.1	0.1	0.1	0.1	0.0	0.0	0.0
			Collection Channels							
1.4	1.2	1.5	North Shore	1.3	1.5	1.4	1.5	1.4	1.2	1.2
1.0	1.3	1.2	South Powerhouse	1.2	1.2	1.2	1.1	1.3	1.1	1.1
1.1	1.0	1.2	South Shore	1.2	1.1	1.1	1.2	1.1	1.2	1.1
			Weir Depths							
8.0	8.5	8.1	NSE-1	8.1	8.1	8.2	8.0	8.2	8.2	8.3
8.3	8.3	8.5	NSE-2	8.4	9.3	7.8	8.1	8.2	8.3	8.4
7.0	7.2	6.4	SPE-1	7.3	6.5	6.7	6.7	7.0	7.5	7.0
7.0	7.2	6.4	SPE-2	7.3	6.5	6.7	6.7	7.0	7.5	7.0
7.8	8.2 6.0	7.1	SSE-1	7.9 6.0	7.5 6.0	7.6	7.6	7.9	8.1	7.6 6.0
6.0	0.0	6.0	SSE-2 (feet above sill) CRITERIA POINTS:	0.0	0.0	6.0	6.0	6.0	6.0	0.0
YES	YES	YES	Channel Velocities	YES						
1123	1123	1123	Differentials	1123	ILS	ILS	1123	1123	1123	1123
			North Fish Ladder							
YES	YES	YES	Ladder Exit	YES						
YES	YES	YES	Ladder Weirs	YES						
YES	NO	YES	Counting Station	YES						
			South Fish Ladder							
YES	YES	YES	Ladder Exit	YES						
YES	YES	YES	Ladder Weirs	YES						
YES	YES	YES	Counting Station Collection Channels	YES						
YES	YES	YES	North Shore	YES						
YES	YES	YES	South Powerhouse	YES						
YES	YES	YES	South Shore	YES						
			Weir Depths							
YES	YES	YES	NSE-1	YES						
YES	YES	YES	NSE-2	YES	YES	NO	YES	YES	YES	YES
SILL SILL	SILL SILL	SILL SILL	SPE-1 SPE-2	SILL SILL						
SILL	YES	SILL	SSE-1	SILL	SILL	SILL	SILL	SILL	YES	SILL
YES	YES	YES	SSE-2 (feet above sill)	YES						
			CRITERIA POINTS: YES	(Output = 0)						
1	1	1	Channel Velocities	1	1	1	1	1	1	1
			Differentials							
1	1	1	North Fish Ladder	1	1	1	1	1	1	1
1	1	1	Ladder Exit	1	1	1	1	1	1	1

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2013			APPENDIX 1 (CONTINUED).	LOWER M	ONUMENT	AL ADULT	FISHWAY I	NSPECTIO	NS	
21-Nov	25-Nov	26-Nov	DATES:	27-Nov	2-Dec	4-Dec	5-Dec	9-Dec	10-Dec	11-Dec
1.9	2.0	1.6	CHAN'L VELOCITIES (N):	1.6	1.7	1.7	1.9	2.0	1.7	2.0
			ELEVATIONS:							
			North Fish Ladder							
539.0	538.9	539.0	Forebay	539.0	539.1	539.2	539.3	539.2	539.6	539.0
538.8	538.6	538.8	Exit Pool	538.8	538.9	538.8	539.0	537.2	538.4	539.0
534.0	534.0	534.0	Makeup Diffuser	534.0	534.0	534.2	534.1	534.1	534.0	534.1
467.8	467.8	467.8	U S Picketed Leads	467.8	467.8	467.8	467.8	467.8	467.8	467.8
467.7	467.7	467.7	D S Picketed Leads	467.7	467.7	467.7	467.7	467.7	467.7	467.7
			South Fish Ladder							
539.0	539.0	539.0	Forebay	539.2	539.2	539.3	539.3	539.2	539.7	539.0
538.9	539.0	539.0	Exit Pool	539.0	539.1	539.2	539.3	539.1	539.6	539.0
534.0	534.0	534.0	Makeup Diffuser	534.0	534.0	533.9	534.1	534.0	534.0	534.0
534.1	534.1	534.0	U S Picketed Leads	534.0	534.0	534.0	534.1	534.1	534.1	534.1
534.0	534.0	534.0	D S Picketed Leads	534.0	534.0	533.9	534.1	534.0	534.0	534.0
			Collection Channels							
440.0	440.3	440.4	North Shore	440.3	441.1	441.1	440.7	440.0	440.8	440.8
439.8	440.3	440.0	South Powerhouse	440.0	441.0	441.0	440.6	439.8	440.6	440.8
439.8	439.9	439.9	South Shore	439.9	440.9	440.5	440.5	440.2	440.5	440.4
			Tailwater							
438.6	439.0	438.9	North Shore	438.9	439.8	439.9	439.3	438.6	439.6	439.5
438.6	439.1	438.9	South Powerhouse	439.0	439.8	439.8	439.3	438.7	439.5	439.8
438.7	438.8	438.8	South Shore	438.8	439.8	439.4	439.4	439.0	439.3	439.3
			Entrance Weirs							
430.5	430.8	430.9	NSE-1	430.8	431.7	431.8	431.3	430.4	431.4	431.4
430.3	430.8	430.8	NSE-2	430.7	431.8	432.0	431.5	430.8	431.5	431.4
432.0	432.0	432.0	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
431.0	431.0	431.0	SSE-1	431.0	431.7	431.3	431.3	431.0	431.3	431.2
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			DIFFERENTIALS/DEPTHS:							
			North Fish Ladder							
0.2	0.3	0.2	Ladder Exit	0.2	0.2	0.4	0.3	2.0	1.2	0.0
1.0	1.0	1.0	Ladder Weirs	1.0	1.0	1.2	1.1	1.1	1.0	1.1
0.1	0.1	0.1	Counting Station	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			South Fish Ladder							
0.1	0.0	0.0	Ladder Exit	0.2	0.1	0.1	0.0	0.1	0.1	0.0
1.0	1.0	1.0	Ladder Weirs	1.0	1.0	0.9	1.1	1.0	1.0	1.0
0.1	0.1	0.0	Counting Station	0.0	0.0	0.1	0.0	0.1	0.1	0.1
			Collection Channels							
1.4	1.3	1.5	North Shore	1.4	1.3	1.2	1.4	1.4	1.2	1.3
1.2	1.2	1.1	South Powerhouse	1.0	1.2	1.2	1.3	1.1	1.1	1.0
1.1	1.1	1.1	South Shore	1.1	1.1	1.1	1.1	1.2	1.2	1.1
			Weir Depths							
8.1	8.2	8.0	NSE-1	8.1	8.1	8.1	8.0	8.2	8.2	8.1
8.3	8.2	8.1	NSE-2	8.2	8.0	7.9	7.8	7.8	8.1	8.1
6.6	7.1	6.9	SPE-1	7.0	7.8	7.8	7.3	6.7	7.5	7.8
6.6	7.1	6.9	SPE-2	7.0	7.8	7.8	7.3	6.7	7.5	7.8
7.7	7.8	7.8	SSE-1	7.8	8.1	8.1	8.1	8.0	8.0	8.1
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			CRITERIA POINTS:							
YES	YES	YES	Channel Velocities	YES	YES	YES	YES	YES	YES	YES
			Differentials							
			North Fish Ladder							
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	NO	NO	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
			South Fish Ladder							
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	NO	YES	YES	YES	YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES	YES
VEC	VEC	VEC	Collection Channels	VEC	VEC	VEC	VEC	VEC	VEC	VEC
YES YES	YES YES	YES	North Shore South Powerhouse	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES
YES	YES YES	YES YES	South Powernouse South Shore	YES	YES	YES	YES	YES	YES	YES
1123	1123	1123	Weir Depths	1123	1123	1123	1123	1123	1123	1123
YES	YES	YES	NSE-1	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	NSE-2	YES	YES	NO	NO	NO	YES	YES
SILL	SILL	SILL	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	YES	YES	YES	YES	YES	YES
YES	YES	YES	SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES	YES
	1		CRITERIA POINTS: YES			1	1		1	1
1	1	1	Channel Velocities Differentials	1	1	1	1	1	1	1
			North Fish Ladder							
1	1	1	Ladder Exit	1	1	1	1	0	0	1
				гау	U 17					

2013			APPENDIX 1 (CONTINUED).	LOWER M	ONUMENTA	AL ADULT I	FISHWAY I	NSPECTION	NS
12-Dec	16-Dec	17-Dec	DATES:	18-Dec	19-Dec	24-Dec	26-Dec	30-Dec	31-Dec
2.0	1.7	1.9	CHAN'L VELOCITIES (N): ELEVATIONS:	1.7	1.8	1.7	2.0	1.8	1.6
			North Fish Ladder						
538.9	538.6	538.9	Forebay	539.2	539.0	539.0	539.3	539.3	539.0
538.9	538.6	538.9	Exit Pool	539.2	539.0	539.0	539.3	539.3	539.0
534.0	534.1	534.0	Makeup Diffuser	534.1	534.1	534.0	534.1	534.1	534.1
467.8	467.8	467.8	U S Picketed Leads	467.8	467.8	467.8	467.8	467.8	467.8
467.7	467.7	467.7	D S Picketed Leads	467.7	467.7	467.7	467.7	467.7	467.7
			South Fish Ladder						
539.0	538.7	539.0	Forebay	539.2	539.0	538.9	539.2	539.4	539.0
538.9	538.6	538.8	Exit Pool	539.0	539.0	538.9	539.2	539.2	538.8
534.0	534.0	534.0	Makeup Diffuser	534.0	534.0	534.0	534.0	534.1	534.0
534.0	534.0	534.1	U S Picketed Leads	534.1	534.1	534.1	534.0	534.1	534.0
534.0	534.0	534.0	D S Picketed Leads	534.0	534.0	534.0	534.0	534.1	534.0
440.0	440.5	120.0	Collection Channels	440.4	440.0	440.5	440.4	440.4	440.0
440.0	440.5	439.9	North Shore	440.4	440.2	440.5	440.4	440.4	440.9
440.0	440.3	439.8	South Powerhouse	440.3	440.2	440.3	440.3	440.3	440.6
440.0	440.3	439.9	South Shore	440.3	440.4	440.4	440.1	440.2	440.3
			Tailwater						
438.8	439.2	438.5	North Shore	439.1	439.0	439.2	439.2	439.2	439.7
438.8	439.1	438.6	South Powerhouse	439.2	439.2	439.2	439.2	439.2	439.5
438.9	439.2	438.7	South Shore	439.1	439.3	439.3	439.1	439.1	439.1
			Entrance Weirs						
430.7	431.1	430.5	NSE-1	431.1	430.8	431.1	431.0	431.1	431.6
430.7	431.2	430.4	NSE-2	431.1	430.8	431.2	431.2	431.1	431.7
432.0	432.0	432.0	SPE-1	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
431.0	431.1	431.0	SSE-1	431.1	431.3	431.2	431.0	431.1	431.0
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0
0.0	0.0	0.0	DIFFERENTIALS/DEPTHS:	0.0	0.0	0.0	0.0	0.0	0.0
			North Fish Ladder						
0.0	0.0	0.0	Ladder Exit	0.0	0.0	0.0	0.0	0.0	0.0
1.0	1.1	1.0	Ladder Weirs	1.1	1.1	1.0	1.1	1.1	1.1
0.1	0.1	0.1	Counting Station	0.1	0.1	0.1	0.1	0.1	0.1
			South Fish Ladder						
0.1	0.1	0.2	Ladder Exit	0.2	0.0	0.0	0.0	0.2	0.2
1.0	1.0	1.0	Ladder Weirs	1.0	1.0	1.0	1.0	1.1	1.0
0.0	0.0	0.1	Counting Station	0.1	0.1	0.1	0.0	0.0	0.0
0.0	0.0	0.1	Collection Channels	0.1	0.1	0.1	0.0	0.0	0.0
1.2	1.3	1.4	North Shore	1.3	1.2	1.3	1.2	1.2	1.2
1.2	1.2	1.2	South Powerhouse	1.1	1.0	1.1	1.1	1.1	1.1
1.1	1.1	1.2	South Powerhouse South Shore	1.1	1.1	1.1	1.0	1.1	1.1
1.1	1.1	1.2	Weir Depths	1.2	1.1	1.1	1.0	1.1	1.2
8.1	8.1	8.0	NSE-1	8.0	8.2	8.1	8.2	8.1	8.1
8.1	8.0	8.1		8.0	8.2	8.0	8.0	8.1	8.0
			NSE-2						
6.8	7.1	6.6	SPE-1	7.2	7.2	7.2	7.2	7.2	7.5
6.8	7.1	6.6	SPE-2	7.2	7.2	7.2	7.2	7.2	7.5
7.9	8.1	7.7	SSE-1	8.0	8.0	8.1	8.1	8.0	8.1
6.0	6.0	6.0	SSE-2 (feet above sill)	6.0	6.0	6.0	6.0	6.0	6.0
			CRITERIA POINTS:						
YES	YES	YES	Channel Velocities	YES	YES	YES	YES	YES	YES
			Differentials						
			North Fish Ladder						
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES
			South Fish Ladder						
YES	YES	YES	Ladder Exit	YES	YES	YES	YES	YES	YES
YES	YES	YES	Ladder Weirs	YES	YES	YES	YES	YES	YES
YES	YES	YES	Counting Station	YES	YES	YES	YES	YES	YES
VEC	YES	VEC	Collection Channels North Shore	VEC	VEC	VEC	VEC	VEC	VEC
YES		YES	North Shore South Powerhouse	YES	YES	YES	YES	YES	YES
YES YES	YES YES	YES YES	South Powernouse South Shore	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES
1123	1123	1123	Weir Depths	1123	1123	1123	1123	1123	1123
YES	YES	YES	NSE-1	YES	YES	YES	YES	YES	YES
YES	YES	YES	NSE-2	YES	YES	YES	YES	YES	YES
SILL	SILL	SILL	SPE-1	SILL	SILL	SILL	SILL	SILL	SILL
SILL	SILL	SILL	SPE-2	SILL	SILL	SILL	SILL	SILL	SILL
SILL	YES	SILL	SSE-1	YES	YES	YES	YES	YES	YES
YES	YES	YES	SSE-2 (feet above sill)	YES	YES	YES	YES	YES	YES
			CRITERIA POINTS: YES						
I	1	1	Channel Velocities Differentials	1	1	1	1	1	1
			North Fish Ladder						
1	1	1	Ladder Exit	1	1	1	1	1	1
				Fay	6 10				

2013

Max	Min
539.8	537.0
539.6	537.0
534.3	534.0
468.6	467.8
468.0	467.7
408.0	407.7
539.8	537.0
539.6	537.0
534.2	533.9
534.2	534.0
534.1	533.9
444.5	438.5
444.3	438.5
443.3	437.4
443.5	436.8
443.3	436.4
442.2	436.1
434.9	429.0
435.1	429.0
434.9	430.0
435.1	430.0
434.1	430.0
6.0	6.0
0.0	0.0
2.0	0.0
2.0 1.3	
	1.0
0.9	0.0
0.4	0.0
1.2	0.9
0.2	0.0
2.0	1.0
2.2	1.0
2.0	1.0
9.0	7.8
9.3	7.8
8.8	4.4
8.8	4.4
9.9	5.1
6.0	6.0
0.0	0.0

Columns in Table	This table auto	matically calc	ulates all result	ts. Just copy the	data (only) i	nto the Word fi	le table.	
1	2	3	4	5	6	7	8	9
LOWER MONUMENTAL			N	ot Enough Depth			Гоо Much Dept	h
Criteria and	No. in	% In	No./%	No./%	No./%	No./%	No./%	No./%
Locations	Criteria/	Criteria/	Within	Within	>0.2	Within	Within	>0.2
	No. on Sill/	% On	0.01 - 0.1	0.11-0.2	Foot	0.01 - 0.1	0.11-0.2	Foot
	No. of	Sill	Foot	Page 20		Foot	Foot	
				Page 20				

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	•	•	•	1	•	1		1		•
Ladder Exit	1	1	1	1	1	1	1	1	1	1
Ladder Weirs	1	1	1	1	1	1	1	1	1	1
Counting Station	1	1	1	1	1	1	1	1	1	i
Collection Channels	1	1	1	1	1	1	1	1	1	1
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	1	1	1	1	1	1	1	1	1	1
NSE-1				1		1	1	1	1	
NSE-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-1 SPE-2	0	0	0	0	0	0	0	0	0	0
SPE-2 SSE-1	0	0	0	0	0 1	0	0	1	0	0
SSE-1 SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	0	1
SSE-2 (feet above siii)	1	1	1	1	1	1	1	1	1	1
CRITERIA POINTS: NO	(Output = 0,	1 or NA)								
Channel Velocities	0	0	0	0	0	0	0	0	0	0
Differentials	U	V	U	O .	O	O .	U	O .	U	U
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	U	U	U	U	U	U	U	U	U	U
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	O .	U	U	U	U	U	U	U	U	U
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	U	U	U	U	U	U	U	U	U	U
NSE-1										0
	0	0	0	0	0	0	0	<u> </u>	- 11	
	0	0	0	0	0	0	0	0	0	
NSE-2	0	0	0	0	0	0	0	0	0	0
NSE-2 SPE-1	0 0	0	0	0	0	0	0	0	0	0
NSE-2 SPE-1 SPE-2	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
NSE-2 SPE-1 SPE-2 SSE-1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
NSE-2 SPE-1 SPE-2	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
NSE-2 SPE-1 SPE-2 SSE-1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill)	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill)	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill) CRITERIA POINTS: SILL Weir Depths NSE-1 NSE-1 NSE-2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill) CRITERIA POINTS: SILL Weir Depths NSE-1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill) CRITERIA POINTS: SILL Weir Depths NSE-1 NSE-1 NSE-2	0 0 0 0 0 (Output = 0,	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill) CRITERIA POINTS: SILL Weir Depths NSE-1 NSE-2 SPE-1 SPE-2 SSE-1	0 0 0 0 0 (Output = 0,	0 0 0 0 0 1, or NA)	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill) CRITERIA POINTS: SILL Weir Depths NSE-1 NSE-1 NSE-2 SPE-1 SPE-2	0 0 0 0 0 (Output = 0,	0 0 0 0 0 1, or NA)	0 0 0 0 0							

OUT OF CRITERIA SITUA			- THESE SH	OULD MAT	TCH THE "N	NOs" ABOV	E.			
North Ladder Differentials (more than 0.2 too l	ow)								
Ladder Exit	Not applicable.									
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	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 h	igh)								
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 (1	more than 0.2 too le	ow)								
Ladder Exit	Not applicable.									
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.									
South Ladder Differentials (
Ladder Exit	Not applicable.									
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable.									

Ladder Weirs	1	1	1	1	1	1	1	1	1	1
Counting Station	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1
South Fish Ladder Ladder Exit	1	1					1			1
Ladder Exit Ladder Weirs	1	1	1	1	1	1	1	1	1	1
11.00	1	1	1	1	1	1	1	1	1	1
Counting Station Collection Channels	1	1	1	1	1	1	1	1	1	1
North Shore	1	1					1			1
The state of the s	1	1	1	1	1	1	1	1	1	1
South Powerhouse	1	1	1	1	1	1	1	1	1	-
South Shore	1	1	1	1	1	1	1	1	1	1
Weir Depths	1	1			1	1	4			1
NSE-1 NSE-2	1	1	1	1	1	1	1	1	1	1
	1	1		-	1	1	•	1	0	1
SPE-1	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	1	1	1	1	0	0
SSE-2 (feet above sill)	1	1	1	1	1	1	1	1	1	1
CRITERIA POINTS: NO	(Output = 0,	1 on NAA								(Output . O
Channel Velocities	(Output = 0,	1, or NA)	0	0	0	0	0	0	0	(Output = 0)
Differentials	U	U	U	U	U	U	U	U	U	U
North Fish Ladder	0	0	0	0	0	0	0	0	0	0
Ladder Exit	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	0	0	2	•	0	•	0	2	0	0
Ladder Exit	0	0	0	0	0	0	0	0	0	0
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	0	0	0	0	0	0	0	0	0	0
Collection Channels		0	2	•	0	•	0	2	0	0
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			2					2		
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 . A	1 on MA								(Output . 0
Weir Depths	(Output = 0,	1, or NA)								(Output = 0)
NSE-1										
NSE-1 NSE-2										
SPE-1	1	1	1	1	1	1	1	1	1	1
	1	1		1	1		1 1	1	1	1
SPE-2	1 1	1	1	1	1 0	1	0	1 0	1	1
SSE-1	1	1	1	1	0	0	U	0	1	1
SSE-2 (feet above sill)										

North Ladder Differentia	ls (more than 0.2 too	low)								
Ladder Exit	Not applicable									Not applica
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable									Not applica
North Ladder Differentia	ds (0.11 - 0.2 too low)									
Ladder Exit	Not applicable									Not applica
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable									Not applica
North Ladder Differentia										
Ladder Exit	Not applicable									Not applica
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable									Not applica
North Ladder Differentia	ls (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 Differentia	ls (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 Differentia	ls (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 Differentia	ls (more than 0.2 too	low)								
Ladder Exit	Not applicable									Not applica
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable									Not applica
South Ladder Differentia	ls (0.11 - 0.2 too low)									
Ladder Exit	Not applicable									Not applica
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable									Not applica

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

North Ladder Differentials Ladder Exit	(moi North Ladder Differential Ladder Exit	ls (more than 0.2 to	o low)					
Ladder Exit	Ladder Exit	0	0	0	0	0	0	0
		U	U	U	U	U	U	0
Counting Station	Counting Station	I= (0.11 0.24== l==	N					
	(0.11 North Ladder Differential	IS (0.11 - 0.2 too lov	7)					
Ladder Exit	Ladder Exit	0	0	0	0	0	0	0
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station		<u>, </u>					
	(0.01 North Ladder Differential	ls (0.01 - 0.1 too low	7)					
Ladder Exit	Ladder Exit							
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station							
	(0.01 North Ladder Differential	ls (0.01 - 0.1 too hig						
Ladder Exit	Ladder Exit	0	0	0	0	0	0	0
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station	0	0	0	0	0	0	0
	(0.11 North Ladder Differential	ls (0.11 - 0.2 too hig						
Ladder Exit	Ladder Exit	0	0	0	0	0	0	0
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station	0	0	0	0	0	0	0
orth Ladder Differentials	(mor North Ladder Differential	ls (more than 0.2 to	o high)					
Ladder Exit	Ladder Exit	0	0	0	0	0	0	0
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station	0	0	0	0	0	0	0
outh Ladder Differentials	(mor South Ladder Differential	s (more than 0.2 to	o low)					
Ladder Exit	Ladder Exit							
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station							
outh Ladder Differentials	(0.11 South Ladder Differential	s (0.11 - 0.2 too low	7)					
Ladder Exit	Ladder Exit							
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station							

-		1	T = 44 - , W/-:		-		•			
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	South Fish Ladder Ladder Exit		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	1	1	1	1	1	1	1
1			North Shore					1		
1	1	1	South Powerhouse	1	1	1	1	1	1	1
1	1	1	South Powerhouse South Shore	1	1	1	1	1	1	1
1	1	1		1	1	1	1	1	1	1
1		1	Weir Depths NSE-1		1			1		
1	1	1	NSE-1 NSE-2	1	1	1	1	1	1	1
0	0	0		0	0	0	0	0	0	1
0	0	0	SPE-1	0	0	0	0	0	0	0
0	0	0	SPE-2 SSE-1	0	0	0	0	0	0	0
1	1	1		0 1	0 1	0 1	0	1	0	0
1	1	1	SSE-2 (feet above sill)	1	1	1	1	1	1	1
		(Output -	0. CRITERIA POINTS: NO							
0	0	0	Channel Velocities	0	0	0	0	0	0	0
U	U	U	Differentials	U	U	U	U	U	U	U
			North Fish Ladder							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
U	U	U	South Fish Ladder	U	U	U	U	U	U	U
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
U	U	U	Collection Channels	U	U	U	U	U	U	· ·
0	0	0	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 Flowerhouse South Shore	0	0	0	0	0	0	0
· ·	O	O .	Weir Depths	O	U	O	O	O .	O	
0	0	0	NSE-1	0	0	0	0	0	0	0
0	0	0	NSE-2	ő	0	0	0	0	0	0
0	0	0	SPE-1	0	0	0	0	0	0	0
0	0	0	SPE-2	ő	0	0	0	0	0	0
0	0	0	SSE-1	ő	0	0	0	0	0	0
0	0	0	SSE-2 (feet above sill)	0	Ö	0	0	0	0	0
	U		BBL 2 (reet above sin)	- U	<u> </u>	· ·	· ·		· ·	U
		(Output =	0 CRITERIA POINTS: SILL							
		(<u>F</u>	Weir Depths							
			NSE-1							
			NSE-2							
1	1	1	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
			SSE-2 (feet above sill)	-						

			North Ladder Differential	s (more than 0.2 to	o low)					
		Not applical								
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differential	s (0.11 - 0.2 too low	7)					
		Not applical								
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differential	s (0.01 - 0.1 too low	7)					
		Not applical								
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differential	s (0.01 - 0.1 too hig	h)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differential	s (0.11 - 0.2 too hig	· /					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differential	s (more than 0.2 to	o high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials	s (more than 0.2 to	o low)					
		Not applicab								
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat	Counting Station							
			South Ladder Differentials	s (0.11 - 0.2 too low	·)					
		Not applicat								
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat	Counting Station							

1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			South Fish Ladder							
1	1	1	Ladder Exit	1	1	1	1	1	1	1
1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			Collection Channels							
1	1	1	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
			Weir Depths NSE-1	1				4		
1	1	1	NSE-1 NSE-2	1	1	1	1	1	1	1
0	0	0	SPE-1	0	0	0	0	0	0	1
0	0	0	SPE-1 SPE-2	0	0	0	0	0	0	1
0	0	0	SPE-2 SSE-1	0	0	0	0	0	0	1
1	1	1	SSE-1 (feet above sill)	1	1	1	1	1	1	1
1	1	1	SSE-2 (feet above siff)	1	1	1	1	1	1	1
		(Output =	0 CRITERIA POINTS: NO							
0	0	0	Channel Velocities	0	0	0	0	0	0	0
			Differentials							
			North Fish Ladder							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	Ö	Ö	Ö
			South Fish Ladder							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			Collection Channels							
0	0	0	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
			Weir Depths							
0	0	0	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
		(Output =	O CRITERIA POINTS: SILL							
			Weir Depths							
			NSE-1							
			NSE-2							
1	1	1	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	1	1	0
			SSE-2 (feet above sill)							

			North Ladder Differentials	(more than 0.2 to	o low)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differentials	(0.11 - 0.2 too low	v)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differentials	(0.01 - 0.1 too low	v)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
0			North Ladder Differentials							0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	North Ladder Differentials	`		0	0	0	0	0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	North Ladder Differentials		0 .	0	0	0	0	0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
		NT	South Ladder Differentials (more than 0.2 to	o low)					
0	Δ.	Not applicat		0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat	e e e e e e e e e e e e e e e e e e e							
		NI . II I	South Ladder Differentials (0.11 - 0.2 too low	7)					
0	0	Not applicat		0	0	0	0	0	0	0
0	0	0 Not applical	Ladder Weirs Counting Station	0	0	0	0	0	0	0

1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			South Fish Ladder							
1	1	1	Ladder Exit	1	1	1	1	1	1	1
1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			Collection Channels							
1	1	1	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
			Weir Depths							
1	1	1	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	1	1	0	0	0	0	0
1	1	1	SPE-2	1	1	0	0	0	0	0
1	1	1	SSE-1	1	1	0	0	0	0	0
1	1	1	SSE-2 (feet above sill)	1	1	1	1	1	1	1
		(Output =	= 0. CRITERIA POINTS: NO							
0	0	0	Channel Velocities	0	0	0	0	0	0	0
			Differentials							
			North Fish Ladder							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Fish Ladder							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			Collection Channels							
0	0	0	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
			Weir Depths							
0	0	0	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
			, , , , , , , , , , , , , , , , , , ,							
		(Output =	= 0. CRITERIA POINTS: SILL							
		` •	Weir Depths							
			NSE-1							
			NSE-2							
0	0	0	SPE-1	0	0	1	1	1	1	1
0	0	0	SPE-2	0	0	1	1	1	1	1
0	0	0	SSE-1	0	0	1	1	1	1	1
			SSE-2 (feet above sill)							

			North Ladder Differentials (mo	ore than 0.2 to	o low)					
		Not applicab	Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							
			North Ladder Differentials (0.1	1 - 0.2 too low	7)					
		Not applicab	Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							
			North Ladder Differentials (0.0	1 - 0.1 too low	7)					
		Not applicab	Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							
			North Ladder Differentials (0.0	1 - 0.1 too hig	h)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials (0.1	1 - 0.2 too hig	h)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials (mo	re than 0.2 to	o high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials (mo	re than 0.2 to	o low)					
		Not applicab	Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab								
			South Ladder Differentials (0.1	1 - 0.2 too low	·)					
		Not applicab	Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0

Not applicab Counting Station

1											
1	1	1	1		1	1	1	1	1	1	1
1	1	1	1		1	1	1	1	1	1	1
1					1					1	
1	1	1	1		1	-	1	1	1		1
Collection Channels	1		1		1		1	1	1		1
1	1	1	1		1	1	1	1	1	1	1
					1					1	
1	1	1	1	T. ST. III BITCH	1	1	1	1	1	1	1
1	1	1	1			-	1	1	1		1
1	1	1	1		1	1	1	1	1	1	1
1		1			0			1	4	1	
0	1	1	1			1	1	1	1	1	1
0	1	1	1					1			1
0											
1											
Coutput = 0 CRITERIA POINTS: NO											
O	1	1	1	SSE-2 (feet above siii)	1	1	1	1	1	1	1
O			(Output =	= 0. CRITERIA POINTS: NO							
Differentials	0	0			0	0	0	0	0	0	0
North Fish Ladder											
0											
0	0	0	0		0	0	0	0	0	0	0
South Fish Ladder Sout	0	0	0	Ladder Weirs	0	0	0		0	0	0
South Fish Ladder Sout	0	0	0	Counting Station	0	0	0	0	0	0	0
0											
0 0 Collection Channels 0	0	0	0		0	0	0	0	0	0	0
Collection Channels	0	0	0	Ladder Weirs	0	0	0	0	0	0	0
Collection Channels	0	0	0	Counting Station	0	0	0	0	0	0	0
0 0 0 South Powerhouse 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											
0 0 0 South Shore 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	North Shore	0	0	0	0	0	0	0
Weir Depths	0	0	0	South Powerhouse	0	0	0	0	0	0	0
0 0 0 NSE-1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	South Shore	0	0	0	0	0	0	0
0 0 0 NSE-2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Weir Depths							
0 0 0 SPE-1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	NSE-1	1	0	0	0	0	0	0
0 0 0 SPE-2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	NSE-2	0	0	0	0	0	0	0
0 0 0 SSE-1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	SPE-1	0	0	0	0	0	0	0
0 0 0 SSE-2 (feet above sill) 0	0	0	0	SPE-2	0	0	0	0	0	0	0
(Output = 0 CRITERIA POINTS: SILL Weir Depths NSE-1 NSE-2 1 1 1 SPE-2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0	0	SSE-1	0	0	0	0	0	0	0
Weir Depths NSE-1 NSE-2 1	0	0	0	SSE-2 (feet above sill)	0	0	0	0	0	0	0
Weir Depths NSE-1 NSE-2 1											
NSE-1 NSE-2 1 1 1 SPE-1 1 1 1 1 1 1 1 1 1 SPE-2 1 1 1 1 1 1 1 1 1 SSE-1 1 1 1 1 1 1			(Output =								
NSE-2 1											
1 1 1 1 1 1 1 1 1 1 1 1 SPE-2 1 1 1 1 1 1 1 1 1 1 1 SSE-1 1 1 1 1 1 1 1											
1 1 1 SPE-2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
1 1 1 SSE-1 1 1 1 1 1 1 1											
SSE-2 (feet above sill)	1	1	1		1	1	1	1	1	1	1
				SSE-2 (feet above sill)							

			North Ladder Differentials	(more than 0.2 to	o low)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differentials	(0.11 - 0.2 too low	v)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differentials	(0.01 - 0.1 too low	v)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
0			North Ladder Differentials							0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	North Ladder Differentials	`		0	0	0	0	0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	North Ladder Differentials		0 .	0	0	0	0	0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
		NT	South Ladder Differentials (more than 0.2 to	o low)					
0	Δ.	Not applicat		0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat	e e e e e e e e e e e e e e e e e e e							
		NI . II I	South Ladder Differentials (0.11 - 0.2 too low	7)					
0	0	Not applicat		0	0	0	0	0	0	0
0	0	0 Not applical	Ladder Weirs Counting Station	0	0	0	0	0	0	0

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

			North Ladder Differentials	(more than 0.2 to	o low)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differentials	(0.11 - 0.2 too low	v)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differentials	(0.01 - 0.1 too low	v)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
0			North Ladder Differentials							0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	North Ladder Differentials	`		0	0	0	0	0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	North Ladder Differentials		0 .	0	0	0	0	0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
		NT	South Ladder Differentials (more than 0.2 to	o low)					
0	Δ.	Not applicat		0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat	e e e e e e e e e e e e e e e e e e e							
		NI . II I	South Ladder Differentials (0.11 - 0.2 too low	7)					
0	0	Not applicat		0	0	0	0	0	0	0
0	0	0 Not applical	Ladder Weirs Counting Station	0	0	0	0	0	0	0

			T 11 W	•	4	_	4		•	•
1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			South Fish Ladder Ladder Exit		1					
1	1	1		1	1	1	1	1	1	1
1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			Collection Channels North Shore		1					
1	1	1		1	1	1	1	1	1	1
1	1	1	South Powerhouse South Shore	1	1	1	1	1	1	1
1	1	1		1	1	1	1	1	1	1
			Weir Depths NSE-1	1	1					
1	1	1	NSE-1 NSE-2	1	1	1	1	1	1	1
0	0	0	NSE-2 SPE-1	0	0	0	0	0	0	0
0	0	0	SPE-1 SPE-2	0	0	0	0	0	0	0
0	0	0	SPE-2 SSE-1	0	0	0	0	0	0	0
1	1	1	SSE-1 (feet above sill)	1	1	1	1	1	1	1
1	1	1	SSE-2 (feet above siii)	1	1	1	1	1	1	1
		(Output =	= 0. CRITERIA POINTS: NO							
0	0	0	Channel Velocities	NA	0	0	0	0	0	0
			Differentials							
			North Fish Ladder							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Fish Ladder							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			Collection Channels							
0	0	0	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
			Weir Depths							
0	0	0	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
		(Output =	0 CRITERIA POINTS: SILL							
			Weir Depths							
			NSE-1 NSE-2							
1	1	1	NSE-2 SPE-1	1	,			1	1	1
1				1	1	1	1 1	1	1	1
1	1 1	1 1	SPE-2	1	1 1	1 1	1	1 1	1 1	1 1
1	1	1	SSE-1 SSE-2 (feet above sill)	1	1	1	1	1	1	1
			SSE-2 (feet above SIII)							

			North Ladder Differentials (n	ore than 0.2 to	o low)					
		Not applicab	Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							
			North Ladder Differentials (0	.11 - 0.2 too lov	v)					
		Not applicab	Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							
			North Ladder Differentials (0	.01 - 0.1 too lov	v)					
		Not applicab	Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							
			North Ladder Differentials (0	.01 - 0.1 too hig	(h)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials (0	.11 - 0.2 too hig	(h)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials (n	ore than 0.2 to	o high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
Ö	0	0	Ladder Weirs	Ö	0	Ö	Ö	0	0	Ö
0	0	0	Counting Station	0	0	Ö	Ö	0	0	0
			South Ladder Differentials (n	ore than 0.2 to	o low)	<u> </u>	<u> </u>	<u> </u>		<u> </u>
		Not applicab	Ladder Exit		0 20 11)					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
	· ·	Not applicab	Counting Station			<u> </u>	, ,		· ·	<u> </u>
			South Ladder Differentials (0	.11 - 0.2 too low	7)					
		Not applicab	Ladder Exit	0.2 100 10 10	,					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							
		1 tot applicat	Counting Station							

1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			South Fish Ladder							
1	1	1	Ladder Exit	1	1	1	I	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
			Collection Channels							
1	1	1	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
			Weir Depths							
1	1	1	NSE-1	1	1	1	0	1	1	1
1	1	1	NSE-2	1	1	1	0	1	1	1
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
1	1	1	SSE-2 (feet above sill)	1	1	1	1	1	1	1
		'0 ' '	A CONTROLL DODING NO							
	•	· •	0 CRITERIA POINTS: NO			2		0		
0	0	0	Channel Velocities	0	0	0	0	0	0	0
			Differentials							
	•		North Fish Ladder			2		0		
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Fish Ladder							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			Collection Channels							
0	0	0	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
			Weir Depths							
0	0	0	NSE-1	0	0	0	1	0	0	0
0	0	0	NSE-2	0	0	0	1	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
		(0.4.4	A CRIPERIA DONIEC CHI							
		(Output =	O CRITERIA POINTS: SILL							
			Weir Depths							
			NSE-1							
			NSE-2							
1	1	1	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
			SSE-2 (feet above sill)							

Not applicab Ladder Exit				N. (1 T 11 D:00 (1 1 /	43 004						
Not applicab Ladder Differentials (0.11 - 0.2 too low)					nore than 0.2 to	o low)					
Not applicab Not applicab Ladder Exit Unit Unit											
North Ladder Differentials (0.11 - 0.2 too low)	0	0	Ü		0	0	0	0	0	0	0
Not applicate											
Counting Station				North Ladder Differentials (0	.11 - 0.2 too low	7)					
Not applicate Not applicate Not applicate Ladder Differentials (0.01 - 0.1 too low)			Not applicab	Ladder Exit							
North Ladder Differentials (0.01 - 0.1 too low) Ladder Exit Ladder Weirs 0	0	0	0	Ladder Weirs	0	0	0	0	0	0	0
Not applicate Ladder Exit Ladder Weirs O O O O O O O O O O O O O O O O O O			Not applicab	Counting Station							
O				North Ladder Differentials (0	.01 - 0.1 too low	7)					
Not applicab Counting Station North Ladder Differentials (0.01 - 0.1 too high)			Not applicab	Ladder Exit							
North Ladder Differentials (0.01 - 0.1 too high)	0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0 0 0 Ladder Exit 0 <td< td=""><td></td><td></td><td>Not applicab</td><td>Counting Station</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			Not applicab	Counting Station							
0 0 0 Ladder Weirs 0 <t< td=""><td></td><td></td><td>•</td><td>North Ladder Differentials (0</td><td>.01 - 0.1 too hig</td><td>h)</td><td></td><td></td><td></td><td></td><td></td></t<>			•	North Ladder Differentials (0	.01 - 0.1 too hig	h)					
North Ladder Differentials (0.11 - 0.2 too high)	0	0	0	Ladder Exit	0	0	0	0	0	0	0
North Ladder Differentials (0.11 - 0.2 too high)	0	0	0	Ladder Weirs	0	0	0	0	0	0	0
North Ladder Differentials (0.11 - 0.2 too high)	0	0	0	Counting Station	0	0	0	0	0	0	0
0 0 0 Ladder Exit 0 <td< td=""><td></td><td></td><td></td><td>North Ladder Differentials (0</td><td>.11 - 0.2 too hig</td><td>h)</td><td></td><td></td><td></td><td></td><td></td></td<>				North Ladder Differentials (0	.11 - 0.2 too hig	h)					
0 0	0	0					0	0	0	0	0
North Ladder Differentials (more than 0.2 too high)	0	0	0	Ladder Weirs	0	0	0	0	0	0	0
North Ladder Differentials (more than 0.2 too high)	0	0	0	Counting Station	0	0	0	0	0	0	0
0 0 0 Ladder Exit 0 <td< td=""><td></td><td></td><td></td><td>\mathcal{C}</td><td>nore than 0.2 to</td><td>o high)</td><td></td><td></td><td></td><td></td><td></td></td<>				\mathcal{C}	nore than 0.2 to	o high)					
0 0	0	0		· · · · · · · · · · · · · · · · · · ·		0 /	0	0	0	0	0
0 0	Ö	0	0	Ladder Weirs	0	0	Ö	Ô	Ö	0	Ô
South Ladder Differentials (more than 0.2 too low) Not applicab Ladder Exit	0				0						
Not applicab Ladder Exit	<u> </u>				ore than 0.2 to	o low)	<u> </u>				
0 0				· · · · · · · · · · · · · · · · · · ·	.010 1111111 012 10	0 10 11)					
Not applicab Counting Station South Ladder Differentials (0.11 - 0.2 too low) Not applicab Ladder Exit 0 0 0 0 0 0 0 0 0	0	0	**		0	0	0	0	0	0	0
South Ladder Differentials (0.11 - 0.2 too low) Not applicab Ladder Exit 0 0 0 0 0 0 0 0 0			Ü						, and the second second		
Not applicab Ladder Exit 0 0 0 0 Ladder Weirs 0 0 0 0 0 0 0					11 - 0 2 too low)					
0 0 0 Ladder Weirs 0 0 0 0 0 0 0				· · · · · · · · · · · · · · · · · · ·	.II - 0.2 too 10 W	,					
	0	0	* *		0	0	0	0	0	0	0
Not applicab Counting Station	U	· ·	Not applicab			· ·		· ·			

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

			North Ladder Differentials	(more than 0.2 to	o low)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differentials	(0.11 - 0.2 too low	v)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
			North Ladder Differentials	(0.01 - 0.1 too low	v)					
_		Not applicat				_				
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat								
0			North Ladder Differentials							0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	North Ladder Differentials	`		0	0	0	0	0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	North Ladder Differentials		0 .	0	0	0	0	0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
		NT	South Ladder Differentials (more than 0.2 to	o low)					
0	Δ.	Not applicat		0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicat	e e e e e e e e e e e e e e e e e e e							
		NI . II I	South Ladder Differentials (0.11 - 0.2 too low	7)					
0	0	Not applicat		0	0	0	0	0	0	0
0	0	0 Not applical	Ladder Weirs Counting Station	0	0	0	0	0	0	0

1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			South Fish Ladder							
1	1	1	Ladder Exit	1	1	1	1	1	1	1
1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			Collection Channels							
1	1	1	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
			Weir Depths							
1	1	1	NSE-1	0	1	1	1	1	1	1
1	1	1	NSE-2	0	1	1	1	1	1	1
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	1	1	1	0	1
1	1	1	SSE-2 (feet above sill)	1	1	1	1	1	1	1
		· •	: 0, CRITERIA POINTS: NO							
O	0	0	Channel Velocities	0	0	0	0	0	0	0
			Differentials							
			North Fish Ladder							
О	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	O	O
O	0	0	Counting Station	0	0	0	0	0	0	O
			South Fish Ladder							
0	0	0	Ladder Exit	0	0	0	0	0	O	0
0	0	0	Ladder Weirs	0	0	0	0	0	O	O
O	0	0	Counting Station	0	0	0	0	0	0	O
			Collection Channels							
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0	0
O	0	0	South Shore	0	0	0	0	0	O	O
			Weir Depths							
0	0	0	NSE-1	1	0	0	0	0	0	0
0	0	0	NSE-2	1	0	0	0	0	0	0
O	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
		(Output =	0 CRITERIA POINTS: SILL							
			Weir Depths							
			NSE-1							
			NSE-2							
1	1	1	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	0	0	1	0
			SSE-2 (feet above sill)							

			North Ladder Differentials (more than 0.2 to	o low)					
		Not applicab	Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab								
			North Ladder Differentials (0.11 - 0.2 too low	v)					
		Not applicab								
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab								
			North Ladder Differentials (0.01 - 0.1 too low	v)					
		Not applicab								
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab								
			North Ladder Differentials (0.01 - 0.1 too hig	gh)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials (0.11 - 0.2 too hig						
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials (more than 0.2 to	o high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials (more than 0.2 to	o low)					
		Not applicab								
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab								
			South Ladder Differentials (0.11 - 0.2 too low	7)					
		Not applicab								
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							

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

			North Ladder Differentials (m							
		Not applicab	Ladder Exit	Not applicabl						
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station	Not applicabl						
			North Ladder Differentials (0.	.11 - 0.2 too low)					
		Not applicab	Ladder Exit	Not applicabl	e.					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station	Not applicabl	e.					
			North Ladder Differentials (0.	.01 - 0.1 too low)					
		Not applicab	Ladder Exit	Not applicabl	e.					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station	Not applicabl	e.					
		• • • • • • • • • • • • • • • • • • • •	North Ladder Differentials (0.	.01 - 0.1 too higl	1)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials (0.	.11 - 0.2 too higl	1)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials (m	ore than 0.2 too	high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials (m	ore than 0.2 too	low)					
		Not applicab	Ladder Exit	Not applicabl						
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station	Not applicabl	e.					
			South Ladder Differentials (0,							
		Not applicab	Ladder Exit	Not applicabl						
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station	Not applicabl	e.					

1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			South Fish Ladder							
1	1	1	Ladder Exit	1	1	1	1	1	1	1
1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			Collection Channels							
1	1	1	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
			Weir Depths							
1	1	1	NSE-1	1	1	1	1	1	1	1
1	1	1	NSE-2	1	1	1	1	1	1	1
0	0	0	SPE-1	0	0	0	0	0	0	0
0	0	0	SPE-2	0	0	0	0	0	0	0
1	1	0	SSE-1	0	1	1	1	0	1	1
1	1	1	SSE-2 (feet above sill)	1	1	1	1	1	1	1
			CRITERIA POINTS: NO	(Output = 0	1 or NA)					
0	0	0	Channel Velocities	(Output = 0 ()	0	0	0	0	0	0
U	U	U	Differentials	U	U	U	U	U	U	U
0	0	0	North Fish Ladder	0	0	0	0	0	0	0
0	0		Ladder Exit	0	0	0	0	0	0	
		0	Ladder Weirs							0
0	0	0	Counting Station	0	0	0	0	0	0	0
	0	0	South Fish Ladder	0	0	0	0	0	0	0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
_	2	•	Collection Channels	0	2					0
0	0	0	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
			Weir Depths							
0	0	0	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	О
0	0	0	SPE-2	0	0	0	0	0	0	0
0	0	0	SSE-1	0	0	0	0	0	0	О
0	0	0	SSE-2 (feet above sill)	0	0	0	0	0	0	0
			CRITERIA POINTS: SILL	(Output = 0	, 1, or NA)					
			Weir Depths	_						
			NSE-1							
			NSE-2							
1	1	1	SPE-1	1	1	1	1	1	1	1
1	1	1	SPE-2	1	1	1	1	1	1	1
0	0	1	SSE-1	1	0	0	0	1	0	0
			SSE-2 (feet above sill)							

			North Ladder Differentials	N	and the second second					
	0		Ladder Exit	Not applicable		0	0		0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicable						
			North Ladder Differentials							
			Ladder Exit	Not applicable						
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicab						
			North Ladder Differentials							
			Ladder Exit	Not applicable						
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicab						
			North Ladder Differentials	` 0	/					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials	s (0.11 - 0.2 too hig	h)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials	s (more than 0.2 to	o high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials	s (more than 0.2 too	low)					
			Ladder Exit	Not applicable	le.					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicable	le.					
			South Ladder Differentials	s (0.11 - 0.2 too low)					
			Ladder Exit	Not applicab	le.					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicable	le.					
				*** 5	-					

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

North Ladder Differentials (more than 0.2 too low) Ladder Exit Not applicable.						• .					
O					N						
Counting Station	0	0	0				0	0	0	0	0
North Ladder Exit	U	U	U		· ·		U	U	U	U	U
Ladder Exit Not applicable. O											
Counting Station											
Counting Station											
North Ladder Differentials (0.01 - 0.1 too low) Ladder Exit Not applicable.	0	0	0				0	0	0	0	0
Ladder Exit Not applicable. O O O O O O O O O											
Counting Station Not applicable. North Ladder Differentials (0.01 - 0.1 too high) Not applicable. North Ladder Differentials (0.01 - 0.1 too high) Not applicable. North Ladder Differentials (0.01 - 0.1 too high) North Ladder Exit 0											
Counting Station	_							_			
North Ladder Differentials (0.01 - 0.1 too high)	0	0	0		· ·		0	0	0	0	0
0 0 0 Ladder Exit 0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
0 0 0 Ladder Weirs 0 <t< td=""><td></td><td></td><td></td><td></td><td>s (0.01 - 0.1 too hig</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>					s (0.01 - 0.1 too hig						
North Ladder Differentials (0.11 - 0.2 too high) O	0				· ·						0
North Ladder Differentials (0.11 - 0.2 too high)	0										0
0 0 0 Ladder Exit 0 <td< td=""><td>0</td><td>0</td><td>0</td><td><u> </u></td><td></td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></td<>	0	0	0	<u> </u>			0	0	0	0	0
0 0 0 Ladder Weirs 0 <t< td=""><td></td><td></td><td></td><td></td><td>s (0.11 - 0.2 too hig</td><td>gh)</td><td></td><td></td><td></td><td></td><td></td></t<>					s (0.11 - 0.2 too hig	gh)					
0 0	0	0	0			· ·	0	0	0	· ·	0
North Ladder Differentials (more than 0.2 too high)	0	0	0			0	0	0	0	0	0
0 0 0 Ladder Exit 0 <td< td=""><td>0</td><td>0</td><td>0</td><td>Counting Station</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></td<>	0	0	0	Counting Station	0	0	0	0	0	0	0
0 0 0 Ladder Weirs 0 <t< td=""><td></td><td></td><td></td><td>North Ladder Differential</td><td>s (more than 0.2 to</td><td>o high)</td><td></td><td></td><td></td><td></td><td></td></t<>				North Ladder Differential	s (more than 0.2 to	o high)					
0 0 0 0 0 0 1 0 0 South Ladder Differentials (more than 0.2 too low) Ladder Exit Not applicable. 0	0	0	0	Ladder Exit	0	0	0	0	0	0	0
South Ladder Differentials (more than 0.2 too low) Ladder Exit Not applicable.	0	0	0	Ladder Weirs	0	0	0	0	0	0	0
Ladder Exit Not applicable.	0	0	0	Counting Station	0	0	0	0	1	0	0
0 0				South Ladder Differentials	s (more than 0.2 to	o low)					
Counting Station Not applicable. South Ladder Differentials (0.11 - 0.2 too low) Ladder Exit Not applicable. 0 0 0 Ladder Weirs 0 0 0 0 0 0 0				Ladder Exit	Not applicab	le.					
South Ladder Differentials (0.11 - 0.2 too low) Ladder Exit Not applicable. 0 0 0 0 0 0 0 0	0	0	0	Ladder Weirs	0	0	0	0	0	0	0
Ladder Exit Not applicable. 0 <td></td> <td></td> <td></td> <td>Counting Station</td> <td>Not applicab</td> <td>le.</td> <td></td> <td></td> <td></td> <td></td> <td></td>				Counting Station	Not applicab	le.					
0 0 0 Ladder Weirs 0 0 0 0 0 0				South Ladder Differentials	s (0.11 - 0.2 too lov	7)					
				Ladder Exit	Not applicab	le.					
Counting Station Not applicable.	0	0	0	Ladder Weirs	0	0	0	0	0	0	0
				Counting Station	Not applicab	le.					

1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	0	1	Counting Station	1	1	1	1	1	1	1
			South Fish Ladder							
1	1	1	Ladder Exit	1	1	1	1	1	1	1
1	1	1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1	1
			Collection Channels							
1	1	1	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
			Weir Depths							
1	1	1	NSE-1	1	1	1	1	1	1	1
1	1	1	NSE-2	1	1	0	1	1	1	1
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	1	0	SSE-1	0	0	0	0	0	1	0
1	1	1	SSE-2 (feet above sill)	1	1	1	1	1	1	1
			CDITEDIA DOINTE, NO	(Ott 0	1 NTA)					
0	0	0	CRITERIA POINTS: NO	Output = 0		0	0	0	0	0
0	0	0	Channel Velocities	0	0	0	0	0	0	0
			Differentials							
	•	_	North Fish Ladder	0	•	0	0	•	•	2
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	1	0	Counting Station	0	0	0	0	0	0	0
	0	•	South Fish Ladder		0			_	0	
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station Collection Channels	0	0	0	0	0	0	0
0	0	0	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
U	U	U	Weir Depths	U	U	U	U	U	U	U
0	0	0	NSE-1	0	0	0	0	0	0	0
0	0	0	NSE-1 NSE-2	0	0	1	0	0	0	
0	0		SPE-1	0		0	0	0	0	0
0	0	0		0	0	0	0	0	0	0
			SPE-2							0
0	0	0	SSE-1	0	0	0	0	0	0	0
U	U	0	SSE-2 (feet above sill)	U	U	U	U	U	U	U
			CRITERIA POINTS: SILL	(Output = 0	. 1. or NA)					
			Weir Depths	(Output = 0	, =, 02 1 (12)					
			NSE-1							
			NSE-2							
1	1	1	SPE-1	1	1	1	1	1	1	1
1	1	1	SPE-2	1	1	1	1	1	1	1
1	0	1	SSE-1	1	1	1	1	1	0	1
-		•	SSE-2 (feet above sill)	1						1
			SSE-2 (rect above siii)							

			North Ladder Different	tials (more than 0.2 to	o low)					
			Ladder Exit	Not applicabl	e.					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicabl	e.					
			North Ladder Different	tials (0.11 - 0.2 too low)					
			Ladder Exit	Not applicabl	e.					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicabl	e.					
			North Ladder Different	tials (0.01 - 0.1 too low)					
			Ladder Exit	Not applicabl	e.					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicabl	e.					
			North Ladder Different	tials (0.01 - 0.1 too high	h)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Different	tials (0.11 - 0.2 too hig	/					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Different	The second secon	0 /					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	1	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Different	The second secon						
			Ladder Exit	Not applicabl						
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicabl						
			South Ladder Different							
0	0		Ladder Exit	Not applicabl			0			
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicabl	e.					

	1		1	Ladder Weirs	1	1	1	1	1	1	1
1	1	1	1		1	1	1	1	1	1	1
1	1	1	1		1	1	1	1	1	1	1
1											
1	1	1	1		1	1	I	1	1	1	1
Collection Channels	1	1	1		1	1		1	1	1	1
1	1	1	1		1	1	1	1	1	1	1
1											
1	1	1	1		1	1	1	1	1	1	1
Weir Depths	1	1	1		1	1	1	1	1	1	1
1	1	1	1		1	1	1	1	1	1	1
1											
0	1	1	1	NSE-1	1	1	1	1	1	1	1
0	1	1	1	NSE-2	1	1	0	0	0	1	1
0	0	0	0	SPE-1	0	0	0	0	0	0	0
CRITERIA POINTS: NO	0	0	0	SPE-2	0	0	0	0	0	0	0
CRITERIA POINTS: NO	0	0	0	SSE-1	0	1	1	1	1	1	1
0	1	1	1	SSE-2 (feet above sill)	1	1	1	1	1	1	1
0											
Differentials				CRITERIA POINTS: NO							
North Fish Ladder	0	0	0	Channel Velocities	0	0	0	0	0	0	0
0				Differentials							
0				North Fish Ladder							
0 0 Counting Station 0	0	0	0		0	0	0	0	1	1	0
0 0 Counting Station 0	0	0	0	Ladder Weirs	0	0	0	0	0	0	0
South Fish Ladder Sout	0					0		0	0		
0 0 0 Ladder Exit 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											
0 0 0 Ladder Weirs 0 0 1 0 <t< td=""><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></t<>	0	0	0		0	0	0	0	0	0	0
0 0 Counting Station Collection Channels 0	0	0	0		0	0		0	0	0	0
Collection Channels											
0 0	Ü	Ü	V		Ŭ	Ü	Ŭ	Ŭ	Ü	Ĭ	Ŭ
0 0	0	0	0		0	0	0	0	0	0	0
0 0											
Weir Depths											
0 0 0 NSE-1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O	U	· ·		O .	U		O .	U	l v	
0 0 0 NSE-2 0 0 1 1 1 1 0 0 0 0 0 0 SPE-1 0 0 0 0 0 0 0 0 0 0 0 0 SPE-2 0 0 0 0 0 0 0 0 0 0 0 0 SSE-1 0 0 0 0 0 0 0 0 0 0 0 0 SSE-1 0 0 0 0 0 0 0 0 0 0 0 SSE-2 (feet above sill) 0 0 0 0 0 0 0 0 0 CRITERIA POINTS: SILL Weir Depths NSE-1 NSE-2 1 1 1 SPE-1 1 1 1 1 1 1 1 1 1 1 1 1 1 SPE-2 1 1 1 1 1 1 1 1 1 1 1 1 1 SSE-1 1 1 0 0 0 0 0 0 0	0	0	0		0	0	0	0	0	0	0
0 0 0 SPE-1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7										
0 0 0 SPE-2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-							-	-		
0 0 0 SSE-1 0 0 0 0 0 0 0 0 0 0 0 0 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 0 0 0 0 0 0 0 0	7										
CRITERIA POINTS: SILL Weir Depths NSE-1 NSE-2 1 1 1 SPE-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
Weir Depths NSE-1 NSE-2 1 1 1 1 1 1 1 1 1 1 1 SPE-1 1 1 1 1 1 1 1 1 1 1 1 SPE-2 1 1 1 1 1 1 1 1 1 1 1 1 SSE-1 1 0 0 0 0 0 0	U	U	U	SSE-2 (reet above siii)	U	U	U	U	U	U	U
Weir Depths NSE-1 NSE-2 1 1 1 1 1 1 1 1 1 1 1 SPE-1 1 1 1 1 1 1 1 1 1 1 1 SPE-2 1 1 1 1 1 1 1 1 1 1 1 1 SSE-1 1 0 0 0 0 0 0				CDITEDIA DOINTS, CH I							
NSE-1 NSE-2 1 1 1 SPE-1 1 1 1 1 1 1 1 1 1 SPE-2 1 1 1 1 1 1 1 1 1 1 1 SSE-1 1 0 0 0 0 0											
NSE-2 1											
1 1 1 1 1 1 1 1 1 1 1 1 SSE-2 1 1 1 1 1 1 1 1 1 1 1 SSE-1 1 0 0 0 0 0 0											
1 1 1 SPE-2 1 1 1 1 1 1 1 1 1 1 1 SSE-1 1 0 0 0 0 0 0	1	1	1		1	1	1	1	1	1	1
1 1 1 SSE-1 1 0 0 0 0 0 0											
SSE-2 (teet above Siii)	1	1	- 1		1	0	0	0	0	0	-0
				SSE-2 (feet above sill)							

			North Ladder Differentials	(more than 0.2 to	o low)					
			Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station							
			North Ladder Differentials	(0.11 - 0.2 too low	7)					
			Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station							
			North Ladder Differentials	(0.01 - 0.1 too low	7)					
			Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station							
			North Ladder Differentials	(0.01 - 0.1 too hig	h)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials	(0.11 - 0.2 too hig	h)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			North Ladder Differentials	(more than 0.2 to	o high)					
0	0	0	Ladder Exit	0	0	0	0	1	1	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
			South Ladder Differentials	(more than 0.2 to	o low)					
			Ladder Exit	(,					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station							
			South Ladder Differentials	(0.11 - 0.2 too low	7)					
			Ladder Exit							
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
	· ·		Counting Station			·	· ·			
			Counting Dutton	.,,						

1	1	1	Ladder Weirs	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1
			South Fish Ladder						
1	1	1	Ladder Exit	1	1	1	1	1	1
1	1	1	Ladder Weirs	1	1	1	1	1	1
1	1	1	Counting Station	1	1	1	1	1	1
			Collection Channels						
1	1	1	North Shore	1	1	1	1	1	1
1	1	1	South Powerhouse	1	1	1	1	1	1
1	1	1	South Shore	1	1	1	1	1	1
			Weir Depths NSE-1						
1	1	1		1	1	1	1	1	1
1	1	1	NSE-2	1	1	1	1	1	1
0	0	0	SPE-1	0 0	0 0	0	0	0	0
0	0 1	0 0	SPE-2 SSE-1	0	0	0 1	0	0	0
0	1	0 1		1	1	1	1	1	1
1	1	1	SSE-2 (feet above sill)	1	1	1	1	1	1
			CRITERIA POINTS: NO						
0	0	0	Channel Velocities	0	0	0	0	0	0
U	U	U	Differentials	U	U	U	U	U	U
			North Fish Ladder						
0	0	0	Ladder Exit	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0
U	U	U	South Fish Ladder	U	U	U	U	U	U
0	0	0	Ladder Exit	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0
U	U	U	Collection Channels	U	U	U	U	U	U
0	0	0	North Shore	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0
0	0	0	South Shore	0	0	0	0	0	0
U	U	U	Weir Depths	U	U	U	U	U	· ·
0	0	0	NSE-1	0	0	0	0	0	0
0	0	0	NSE-2	0	0	0	0	0	0
0	0	0	SPE-1	0	0	0	0	0	0
0	0	0	SPE-2	0	Ö	Ö	Ö	Ö	0
0	0	0	SSE-1	0	0	0	0	0	0
0	0	0	SSE-2 (feet above sill)	0	0	0	0	0	0
J			BBL 2 (1001 1150 10 3111)	V	V	V		V	
			CRITERIA POINTS: SILL						
			Weir Depths						
			NSE-1						
			NSE-2						
1	1	1	SPE-1	1	1	1	1	1	1
1	1	1	SPE-2	1	1	1	1	1	1
1	0	1	SSE-1	0	0	0	0	0	0
			SSE-2 (feet above sill)						
			(1221 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						

			North Ladder Differentials (m	ore than 0.2 to	o low)				
			Ladder Exit						
0	0	0	Ladder Weirs	0	0	0	0	0	0
			Counting Station						
			North Ladder Differentials (0.	.11 - 0.2 too low)				
0	0	0	Ladder Exit	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0
			Counting Station North Ladder Differentials (0.	01 0 1 4 1	x				
			Ladder Exit	.01 - 0.1 too low	,				
0	0	0	Ladder Weirs	0	0	0	0	0	0
U	U	U	Counting Station	U	U	U	U	U	U
			North Ladder Differentials (0.	01 - 0 1 too big	h)				
0	0	0	Ladder Exit	0	0	0	0	0	0
Ö	0	0	Ladder Weirs	0	0	Ö	0	ő	Ö
0	Ö	0	Counting Station	ő	Ö	0	Ö	Ö	Ö
	-		North Ladder Differentials (0.	.11 - 0.2 too hig					
0	0	0	Ladder Exit	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0
			North Ladder Differentials (m	ore than 0.2 to	o high)				
0	0	0	Ladder Exit	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0
			South Ladder Differentials (m	ore than 0.2 to	o low)				
			Ladder Exit						
0	0	0	Ladder Weirs	0	0	0	0	0	0
			Counting Station						
			South Ladder Differentials (0.	11 - 0.2 too low)				
			Ladder Exit						
0	0	0	Ladder Weirs	0	0	0	0	0	0
			Counting Station	. ن					

Ladder Weirs	176		176		100.0
Counting Station	174		176		98.9
South Fish Ladder					
Ladder Exit	176		176		100.0
Ladder Weirs	175		176		99.4
Counting Station	176		176		100.0
Collection Channels					
North Shore	176		176		100.0
South Powerhouse	175		176		99.4
South Shore	176		176		100.0
Weir Depths					
NSE-1	172		176		97.7
NSE-2	170		176		96.6
SPE-1	6		176		3.4
SPE-2	6		176		3.4
SSE-1	53		176		30.1
SSE-2 (feet above sill)	176		176		100.0
BBE 2 (reet above sin)	170		170		100.0
CRITERIA POINTS: NO	No. of NO				% NO
Channel Velocities	0				0.0
Differentials	U				0.0
North Fish Ladder					
Ladder Exit	2				1.1
Ladder Weirs	0				
					0.0
Counting Station	2				1.1
South Fish Ladder	0				0.0
Ladder Exit	0				0.0
Ladder Weirs	1				0.6
Counting Station	0				0.0
Collection Channels					
North Shore	0				0.0
South Powerhouse	1				0.6
South Shore	0				0.0
Weir Depths					
NSE-1	2				1.1
NSE-2	4				2.3
SPE-1	0				0.0
SPE-2	0				0.0
SSE-1	0				0.0
SSE-2 (feet above sill)	0				0.0
CRITERIA POINTS: SILL	No. of SILL				% SILL
Weir Depths					
Well Deptils					
NSE-1	2				1.1
-	2 2				1.1 1.1
NSE-1 NSE-2	2				1.1
NSE-1 NSE-2 SPE-1	2 170				1.1 96.6
NSE-1 NSE-2 SPE-1 SPE-2	2 170 170				1.1 96.6 96.6
NSE-1 NSE-2 SPE-1	2 170 170 123				1.1 96.6 96.6 69.9
NSE-1 NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill)	2 170 170 123 Not Applic.	n green above.			1.1 96.6 96.6
NSE-1 NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill)	2 170 170 123 Not Applic.				1.1 96.6 96.6 69.9
NSE-1 NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill) Numbers in green below should a Numbers in yellow below should	2 170 170 123 Not Applic. add to numbers in	in yellow above.			1.1 96.6 96.6 69.9
NSE-1 NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill) Numbers in green below should a Numbers in yellow below should Numbers in blue below should and	2 170 170 123 Not Applic. add to numbers in add to numbers in	in yellow above. blue above.			1.1 96.6 96.6 69.9
NSE-1 NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill) Numbers in green below should a Numbers in yellow below should a Numbers in blue below should ac North Ladder Differentials (mo	2 170 170 123 Not Applic. add to numbers ir add to numbers in tre than 0.2 too l	in yellow above. blue above. ow)			1.1 96.6 96.6 69.9
NSE-1 NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill) Numbers in green below should a Numbers in yellow below should a Numbers in blue below should a North Ladder Differentials (mo	2 170 170 123 Not Applic. add to numbers in add to numbers in	in yellow above. blue above. ow)			1.1 96.6 96.6 69.9
NSE-1 NSE-2 SPE-1 SPE-2 SSE-1 SSE-2 (feet above sill) Numbers in green below should a Numbers in blue below should at North Ladder Differentials (mo	2 170 170 123 Not Applic. add to numbers in add to numbers in the than 0.2 too l Not applicable.	in yellow above. blue above. ow)			1.1 96.6 96.6 69.9
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	Inspections								6
Channel Velocities	175	100.0	***	***	***	***	***	***	7
	***	***	***	***	***	***	***	***	8
	175								9
Differentials									10
North Fish Ladder									11
Ladder Exit	174	98.9	***	***	***	0	0	2	12
	***	***	और और और	***	***	0.0	0.0	1.1	13
T 11 337 :	176	100.0	0	0	0	0	0	0	14
Ladder Weirs	176 ***	100.0	0	0	0	0	0	0	15 16
	176	4-4-4-	0.0	0.0	0.0	0.0	0.0	0.0	17
Counting Station	174	98.9	***	***	***	0	0	2	18
Counting Station	***	70.7 ***	***	***	***	0.0	0.0	1.1	19
	176					0.0	0.0	1.1	20
South Fish Ladder	170								21
Ladder Exit	176	100.0	***	***	***	0	0	0	22
	***	***	***	***	***	0.0	0.0	0.0	23
	176								24
Ladder Weirs	175	99.4	1	0	0	0	0	0	25
	***	***	0.6	0.0	0.0	0.0	0.0	0.0	26
	176								27
Counting Station	176	100.0	***	***	***	0	0	0	28
	***	***	***	***	***	0.0	0.0	0.0	29
	176								30
Collection Channels									31
North Shore	176	100.0	0	0	0	0	0	0	32
	***	***	0.0	0.0	0.0	0.0	0.0	0.0	33
G 4.5	176	00.4	0	0	0	0	0		34
South Powerhouse	175 ***	99.4 ***	0	0	0	0	0	1	35
		***	0.0	0.0	0.0	0.0	0.0	0.6	36 37
South Shore	176 176	100.0	0	0	0	0	0	0	38
South Shore	1/0	***	0.0	0.0	0.0	0.0	0.0	0.0	39
	176		0.0	0.0	0.0	0.0	0.0	0.0	40
Weir Depths	170								41
NSE-1	172	97.7	2	0	0	***	***	***	42
	2	1.1	1.1	0.0	0.0	***	***	***	43
	176								44
NSE-2	170	96.6	1	3	0	***	***	***	45
	2	1.1	0.6	1.7	0.0	***	***	***	46
	176								47
SPE-1	6	3.4	1	1	0	***	***	***	48
	170	96.6	0.6	0.6	0.0	***	***	***	49
	176								50
SPE-2	6	3.4	0	1	0	***	***	***	51
	170	96.6	0.0	0.6	0.0	***	***	***	52
CCE 1	176	20.1	0	0	0	***	***	***	53 54
SSE-1	53	30.1	0	0	0	***	***	***	54
	123 176	69.9	0.0	0.0	0.0	-111-	41-11-11	4-4-4-	55 56
SSE-2 (feet above sill)	176 176	100.0	0	0	0	***	***	***	57
DDE-2 (ICCL ADOVE SIII)	Not Applic.	***	0.0	0.0	0.0	***	***	***	58
	176		0.0	0.0	0.0				59

C41-I - 11 D:654:-1- (0.0	1 0141									
South Ladder Differentials (0.0 Ladder Exit	Not applicable									
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	Not applicable									
South Ladder Differentials (0.0 Ladder Exit	0.1 too high	0	0	0	0	0	0	0	0	0
Ladder Weirs	0	0	0	0	0	0	0	0	0	0
Counting Station	ő	Ö	Ő	0	Ő	Ö	ő	ő	Ö	0
South Ladder Differentials (0.1	1 - 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 0	0 0	0 0	0
Counting Station South Ladder Differentials (mo			U	U	U	U	U	U	U	U
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 Differential North Shore	ls (<0.80)	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 Differential										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse South Shore	0	0	0	0	0	0	0	0	0	0
South Bhore	J	- 0	- 0				J		- 0	J
Channel/Tailwater Differential	. (
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0 0	0 0	0	0 0	0	0	0
South Shore	U	U	U	U	U	U	U	U	U	U
Channel/Tailwater Differential	ls (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 Differential	le (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
CI I/E I 4 Dice (1)	. 6.2.20)									
Channel/Tailwater Differential North Shore	IS (>2.20)	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 NSE 1 (~7.80)			0	0	0	0	0	0	0	0
NSE-1 (< 7.80) NSE-2 (< 7.80)	0	0	0	0 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	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) SSE-1 (7.80 - 7.89)	0 0	0	0	0 0	0 0	0 0	0 0	0	0 0	$0 \\ 0$
SSE-2 (set 6 ft above sill)	Not Applic.	U	U	U	U	U	U	U	U	U
DDD 2 (See o it above siii)	Tiot ripplic.									
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) SPE-2 (7.90 - 7.99)	0	0 0	$0 \\ 0$	0 0	0 0	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.									

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 applicab									Not applicab
South Ladder Differentials			0	0	0	0	0	0	0	0
Ladder Exit	0	0 0	0 0	0 0	0 0	0	0	0 0	0 0	0
Ladder Weirs Counting Station	0	0	0	0	0	0	0 0	0	0	0
South Ladder Differentials			· ·	O Company	0	, and the second	J	J	J	
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	0	
Ladder Exit Ladder Weirs	0	0 0	$0 \\ 0$	0 0	0 0	0 0	0 0	0 0	0 0	$0 \\ 0$
Counting Station	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differen		J	· ·	O Company	0	, and the second	J	J	J	
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
CI 1/m // Date	4.1 (0.00 0.00									
Channel/Tailwater Different North Shore	otials (0.80 - 0.89)	0	0	0	0	0	0	0	0	0
South Powerhouse	0	0	0	0	0	0	0	0	0	0
South Flore	0	0	0	0	0	0	0	0	0	0
Channel/Tailwater Differen										
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse South Shore	0	0	0 0	0 0	0	0	0	0	0	0
South Shore	U	U	U	U	U	U	U	U	U	U
Channel/Tailwater Differen	ntials (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 Differen	stiels (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 Differen			_		_					
North Shore	0	0	0	0	0	0	0	0	0	0
South Powerhouse South Shore	0	0	0	0 0	0	0	0	0	0	0
Bouth Shore		U	· ·		· ·	U	U	U	U	U
Entrance Weir Depths (mor	re than 0.2 too low	⁷)								
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	0 0	0 0	0
SPE-2 (< 7.80) SSE-1 (< 7.80)	0	0	0	0 0	0	0	0	0	0	0
SSE-2 (set 6 ft above sill)	Not Applic.	U	U	U	U	U	U	U	U	O
	**									
Entrance Weir Depths (0.11	1 - 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) SPE-1 (7.80 - 7.89)	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
SPE-1 (7.80 - 7.89) 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	0	0	0	0	0	0	0	0
NSE-1 (7.90 - 7.99)	0	0	0	0 0	0	$0 \\ 0$	0 0	0 0	0	0
NSE-2 (7.90 - 7.99) SPE-1 (7.90 - 7.99)	0	0 0	0 0	0	0 0	0	0	0	0 0	0 1
SPE-1 (7.90 - 7.99) 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.									

	11 D100 (1 1 (0 0)	1 01 / 1						
South Ladder Differentials (0.0 Ladder Exit	1 South Ladder Differentials (0.0) Ladder Exit	1 - 0.1 too low)					
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station			<u> </u>		· ·		· ·
	1 South Ladder Differentials (0.0)	1 - 0.1 too high	1)					
Ladder Exit	Ladder Exit	0	0	0	0	0	0	0
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station	0	0	0	0	0	0	0
The state of the s	1 South Ladder Differentials (0.1)							
Ladder Exit	Ladder Exit	0	0	0	0	0	0	0
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station or South Ladder Differentials (mo	0	0	0	0	0	0	0
Ladder Exit	Ladder Exit	0.2 tot	o mgn) ()	0	0	0	0	0
Ladder Weirs	Ladder Weirs	0	0	0	0	0	0	0
Counting Station	Counting Station	ő	Ö	0	ő	ő	ő	ő
	ls Channel/Tailwater Differentials	s (<0.80)						
North Shore	North Shore	0	0	0	0	0	0	0
South Powerhouse	South Powerhouse	0	0	0	0	0	0	0
South Shore	South Shore	0	0	0	0	0	0	0
	ls Channel/Tailwater Differentials		0					
North Shore	North Shore	0	0	0	0	0	0	0
South Powerhouse	South Powerhouse South Shore	0	0	0	0	0	0	0
South Shore	South Shore	U	U	U	U	U	U	U
Channel/Tailwater Differential	ls Channel/Tailwater Differentials	s (0.90 - 0.99).						
North Shore	North Shore	0	0	0	0	0	0	0
South Powerhouse	South Powerhouse	0	0	0	0	0	0	Ö
South Shore	South Shore	0	O	0	0	0	0	Ö
Channel/Tailwater Differential	ls Channel/Tailwater Differentials	s (2.01 - 2.10)						
North Shore	North Shore	0	0	0	0	0	0	0
South Powerhouse	South Powerhouse	0	0	0	0	0	0	0
South Shore	South Shore	0	0	0	0	0	0	0
Cl. 1/E 1 4 D'00 41	L CL. 1/TE 1 4 Diec di 1	(2.11 . 2.20)						
North Shore	ls Channel/Tailwater Differentials North Shore	0	0	0	0	0	0	0
South Powerhouse	South Powerhouse	0	0	0	0	0	0	0
South Shore	South Shore	0	0	0	0	0	0	0
South Shore	South Shore		J	,				Ŭ
Channel/Tailwater Differential	ls Channel/Tailwater Differentials	s (>2.20)						
North Shore	North Shore	0	0	0	0	0	0	0
South Powerhouse	South Powerhouse	0	0	0	0	0	0	0
South Shore	South Shore	0	0	0	0	0	0	0
	h: Entrance Weir Depths (more th			0	0	0	0	0
NSE-1 (< 7.80) NSE-2 (< 7.80)	NSE-1 (<7.80) NSE-2 (<7.80)	0 0	0 0	0	0 0	0 0	0 0	$0 \\ 0$
NSE-2 (<7.80) SPE-1 (<7.80)	NSE-2 (<7.80) SPE-1 (<7.80)	0	0	0	0	0	0	0
SPE-2 (< 7.80)	SPE-2 (< 7.80)	0	0	0	0	0	0	0
SSE-1 (< 7.80)	SSE-1 (< 7.80)	0	0	0	0	0	0	0
SSE-2 (set 6 ft above sill)	SSE-2 (set 6 ft above sill)	Not Applic.						
_ · · · · · · · · · · · · · · · · · · ·	L. Entrance Weir Depths (0.11 - 0.	.2 too low)						
NSE-1 (7.80 - 7.89)	NSE-1 (7.80 - 7.89)	0	0	0	0	0	0	0
NSE-2 (7.80 - 7.89)	NSE-2 (7.80 - 7.89)	0	0	0	0	0	0	0
SPE-1 (7.80 - 7.89)	SPE-1 (7.80 - 7.89)	0	0	0	0	0	0	0
SPE-2 (7.80 - 7.89)	SPE-2 (7.80 - 7.89)	0 0	0	0	0 0	0 0	0 0	0 0
SSE-1 (7.80 - 7.89) SSE-2 (set 6 ft above sill)	SSE-1 (7.80 - 7.89)	Ŭ	U	U	U	U	U	U
55E-2 (set off above siii)	SSE-2 (set 6 ft above sill)	Not Applic.						
Entrance Weir Depths (0.01 - 0	. Entrance Weir Depths (0.01 - 0.	.1 too low)						
NSE-1 (7.90 - 7.99)	NSE-1 (7.90 - 7.99)	0	0	0	0	0	0	0
NSE-2 (7.90 - 7.99)	NSE-2 (7.90 - 7.99)	0	0	0	0	0	0	1
SPE-1 (7.90 - 7.99)	SPE-1 (7.90 - 7.99)	0	0	0	0	0	0	0
SPE-2 (7.90 - 7.99)	SPE-2 (7.90 - 7.99)	0	0	0	0	0	0	0
SSE-1 (7.90 - 7.99)	SSE-1 (7.90 - 7.99)	0	0	0	0	0	0	0
SSE-2 (set 6 ft above sill)	SSE-2 (set 6 ft above sill)	Not Applic.						

			South Ladder Differentials (0	01 0141	`					
		Not applicab	The second se	.01 - 0.1 too low)					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab								
			South Ladder Differentials (0							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0 0	0 0	Ladder Weirs Counting Station	0	0	0 0	0 0	0 0	0 0	0
U			South Ladder Differentials (0			O O	· ·	U		· ·
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0		South Ladder Differentials (n			0	0	0	0	0
0	0 0	0 0	Ladder Exit Ladder Weirs	0	0	0 0	0 0	0	0 0	0 0
0	0	0	Counting Station	0	0	0	0	0	0	0
U			Channel/Tailwater Differenti		0	O O	· ·	U		
0	0	0	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
			CI 1/D 1 / D100	1 (0.00 0.00						
0	0	0	Channel/Tailwater Differenti North Shore	als (0.80 - 0.89)	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0	0
0	0	0	South Fowerhouse South Shore	0	0	0	0	0	0	0
			Channel/Tailwater Differenti							
0	0	0	North Shore	0	0	0	0	0	0	0
0	0 0	0 0	South Powerhouse South Shore	0	0	0 0	0 0	0	0 0	0
U	U	U	South Shore	U	U	U	U	U	U	U
			Channel/Tailwater Differenti	als (2.01 - 2.10)						
0	0	0	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
			Ch 1/T:14 D:66	-1- (2.11 2.20)						
0	0	0	Channel/Tailwater Differenti 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
_			Channel/Tailwater Differenti		_			_		
0	0 0	0 0	North Shore South Powerhouse	0	0	0 0	0 0	0	0 0	0
0	0	0	South Shore	0	0	0	0	0	0	0
		<u> </u>				,				,
			Entrance Weir Depths (more	than 0.2 too low	7)					
0	0	0	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	0 0	SPE-1 (<7.80) SPE-2 (<7.80)	0	0	0 0	0 0	0	0 0	0 0
0	0	0	SPE-2 (< 7.80) SSE-1 (< 7.80)	0	0	0	0	0	0	0
	0	9	SSE-2 (set 6 ft above sill)	Not Applic.	J		,		3	U
			,	- 11						
			Entrance Weir Depths (0.11 -							
0	0	0	NSE-1 (7.80 - 7.89)	0	0	0	0	0	0	0
0 0	0 0	0 0	NSE-2 (7.80 - 7.89) SPE-1 (7.80 - 7.89)	0	0	0	0 0	0 0	0 1	0 0
0	0	0	SPE-1 (7.80 - 7.89) SPE-2 (7.80 - 7.89)	0	0	0 0	0	0	0	0
0	0	0	SSE-1 (7.80 - 7.89)	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)						
0	0	0	NSE-1 (7.90 - 7.99)	0	0	0	0	0	0	0
0 0	0 0	0 0	NSE-2 (7.90 - 7.99) SPE-1 (7.90 - 7.99)	0	0 0	0 0	0 0	0 0	0 0	0 0
0	0	0	SPE-1 (7.90 - 7.99) 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
			SSE-2 (set 6 ft above sill)	Not Applic.						

			South Ladder Differentials Ladder Exit	(0.01 - 0.1 too low)	1					
0	0	Not applicab	Ladder Exit Ladder Weirs	0	0	0	0	0	0	0
<u> </u>		Not applicab			<u> </u>	, ,		- U	, ,	
			South Ladder Differentials	(0.01 - 0.1 too high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0		South Ladder Differentials			0	0	0	0	0
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0 0	0 0	0 0	Ladder Weirs Counting Station	0	0 0	0 0	0 0	0 0	0 0	0
U	U		Channel/Tailwater Differen		U	U	U	U	U	U
0	0	0	North Shore	(0.00)	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
· ·	· ·	, ,	Bouth Bhore	· ·	V	- U	J	· ·	-	Ů
			Channel/Tailwater Differer	ntials (0.80 - 0.89)						
0	0	0	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
			Channel/Tailwater Differer	ntials (0.90 - 0.99):						
0	0	0	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
_			Channel/Tailwater Differer							
0	0	0	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
			Channel/Tailwater Differer	atials (2.11 - 2.20)						
0	0	0	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
			Channel/Tailwater Differer	ntials (>2.20)						
0	0	0	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
			Entrance Weir Depths (mor	re than 0.2 too low						
0	0	0	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 Not Applie	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)	Not Applic.						
			Entrance Weir Depths (0.11	1 - 0.2 too low)						
0	0	0	NSE-1 (7.80 - 7.89)	0.2 too low)	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	1
0	0	ő	SSE-1 (7.80 - 7.89)	0	Ö	0	ő	Ő	0	0
			SSE-2 (set 6 ft above sill)							
			()	Tr.						
			Entrance Weir Depths (0.0)	1 - 0.1 too low)						
0	0	0	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
			SSE-2 (set 6 ft above sill)	Not Applic.						

			South Ladder Differentials (0	01 0141	`					
		Not applicab	The state of the s	.01 - 0.1 too low	,					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							
			South Ladder Differentials (0							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station South Ladder Differentials (0)		0	0	0	0	0	U
0	0	0	Ladder Exit	0.11 - 0.2 too mgi	0	0	0	0	0	0
0	ő	0	Ladder Weirs	ő	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials (r	nore than 0.2 too	high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0 0	0 0	0 0	Ladder Weirs	0	0	0 0	0 0	0 0	0 0	0
U	U		Counting Station Channel/Tailwater Different		U	U	U	U	U	U
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	Ö	0	0
0	0	0	South Shore	0	0	0	0	0	0	0
0	0		Channel/Tailwater Differenti		0	0	0		0	0
0 0	0 0	0 0	North Shore South Powerhouse	0	0	0	0	0	0 0	0
0	0	0	South Powernouse South Shore	0	0	0	0	0	0	0
			Bouth Bliote	0	- 0		- 0		-	U
			Channel/Tailwater Different	ials (0.90 - 0.99):						
0	0	0	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
			Channel/Tailwater Differenti	ials (2 01 - 2 10)						
0	0	0	North Shore	()	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	ő	ő	0	0	Ö
0	0	0	South Shore	0	0	0	0	0	0	0
0	0		Channel/Tailwater Differenti		0	0	0	0	0	0
0	0 0	0 0	North Shore South Powerhouse	0	0	0	0	0	0 0	0
0	0	0	South Shore	0	0	0	0	0	0	0
,			South Shore	<u></u>	,	V	V	,		, and the second
			Channel/Tailwater Differenti	ials (>2.20)						
0	0	0	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
			Entrance Weir Depths (more	than 0.2 too low	.)					
0	0	0	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) SSE-2 (set 6 ft above sill)	0 Not Applie	0	0	0	0	0	0
			SSE-2 (Set o It above SIII)	Not Applic.						
			Entrance Weir Depths (0.11 -	- 0.2 too low)						
0	0	0	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 0	0 0	SPE-2 (7.80 - 7.89)	0	0	0 0	$0 \\ 0$	0 0	0 0	0 0
U	U	U	SSE-1 (7.80 - 7.89) SSE-2 (set 6 ft above sill)	Not Applic.	U	U	U	U	U	U
			SSE-2 (Set o It above SIII)	тог дррис.						
			Entrance Weir Depths (0.01 -	• 0.1 too low)						
0	0	0	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	0 0	SPE-2 (7.90 - 7.99)	0	0	0 0	0	0	0 0	0 0
0	U	U	SSE-1 (7.90 - 7.99) SSE-2 (set 6 ft above sill)	Not Applic.	U	U	U	U	U	U
			55E-2 (set o it above siii)	Not Applie.						

			South Ladder Differentials (0.	01 - 0 1 too lo	w)					
		Not applicab	No. of the contract of the con	01 - 0.1 100 10	w)					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab			• .					
0	0	0	South Ladder Differentials (0.		0 ,	Λ	Λ	0	0	0
0	0	0 0	Ladder Exit Ladder Weirs	0	0 0	0 0	0 0	0	0 0	0
ő	ő	ő	Counting Station	Ö	Ö	ő	ő	ő	ő	Ö
			South Ladder Differentials (0.	11 - 0.2 too hi	gh)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0 0	0 0	Ladder Weirs	0	0 0	0 0	0 0	0 0	0 0	0
U	U		Counting Station South Ladder Differentials (m			U	U	U	U	U
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	Channel/Tailwater Differentia North Shore	als (<0.80)	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
			Channel/Tailwater Differentia	` `						
0	0	0 0	North Shore South Powerhouse	0	0	0	0	0	0 0	0
0	0	0	South Powernouse South Shore	0	0	0	0	0	0	0
		·						V		
			Channel/Tailwater Differentia	*						
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse South Shore	0	0	0	0	0	0 0	0
	U	0	South Shore	0	U	U	U	U	U	U
			Channel/Tailwater Differentia	als (2.01 - 2.10))					
0	0	0	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
			Channel/Tailwater Differentia	als (2.11 - 2.20	n					
0	0	0	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
			Channel/Tailwater Differentia	de (>2.20)						
0	0	0	North Shore	()	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
			E (W' D (I ())	0.0041						
0	0	0	Entrance Weir Depths (more t NSE-1 (<7.80)	0 (0 (10 (10 (10 (10 (10 (10 (10 (10 (10	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)	() Not Applie	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)	Not Applic.						
			Entrance Weir Depths (0.11 -	0.2 too low)						
0	0	0	NSE-1 (7.80 - 7.89)	1	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	0 0	SPE-1 (7.80 - 7.89) SPE-2 (7.80 - 7.89)	0	0 0	0 0	0 0	0 0	0 0	0 0
0	0	0	SSE-1 (7.80 - 7.89)	0	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)	Not Applic						
0	0	0	Entrance Weir Depths (0.01 -		0	0	0	0	0	0
0	0 0	0 0	NSE-1 (7.90 - 7.99) NSE-2 (7.90 - 7.99)	0	0 0	0 0	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
			SSE-2 (set 6 ft above sill)	Not Applic.						

			South Ladder Differentials (0	01 0141	`					
		Not applicab	The state of the s	.01 - 0.1 too low	,					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							
			South Ladder Differentials (0							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station South Ladder Differentials (0)		0	0	0	0	0	U
0	0	0	Ladder Exit	0.11 - 0.2 too mgi	0	0	0	0	0	0
0	ő	0	Ladder Weirs	ő	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials (r	nore than 0.2 too	high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0 0	0 0	0 0	Ladder Weirs	0	0	0 0	0 0	0 0	0 0	0
U	U		Counting Station Channel/Tailwater Different		U	U	U	U	U	U
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	Ö	0	0
0	0	0	South Shore	0	0	0	0	0	0	0
0	0		Channel/Tailwater Differenti		0	0	0		0	0
0 0	0 0	0 0	North Shore South Powerhouse	0	0	0	0	0	0 0	0
0	0	0	South Powernouse South Shore	0	0	0	0	0	0	0
			Bouth Bliote	0	- 0		- 0		-	U
			Channel/Tailwater Different	ials (0.90 - 0.99):						
0	0	0	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
			Channel/Tailwater Differenti	ials (2 01 - 2 10)						
0	0	0	North Shore	()	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	ő	ő	0	0	Ö
0	0	0	South Shore	0	0	0	0	0	0	0
0	0		Channel/Tailwater Differenti		0	0	0	0	0	0
0	0 0	0 0	North Shore South Powerhouse	0	0	0	0	0	0 0	0
0	0	0	South Shore	0	0	0	0	0	0	0
,			South Shore	<u></u>	,	V	V	,		, and the second
			Channel/Tailwater Differenti	ials (>2.20)						
0	0	0	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
			Entrance Weir Depths (more	than 0.2 too low	.)					
0	0	0	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) SSE-2 (set 6 ft above sill)	0 Not Applie	0	0	0	0	0	0
			SSE-2 (Set o It above SIII)	Not Applic.						
			Entrance Weir Depths (0.11 -	- 0.2 too low)						
0	0	0	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 0	0 0	SPE-2 (7.80 - 7.89)	0	0	0 0	$0 \\ 0$	0 0	0 0	0 0
U	U	U	SSE-1 (7.80 - 7.89) SSE-2 (set 6 ft above sill)	Not Applic.	U	U	U	U	U	U
			SSE-2 (Set o It above SIII)	тог дррис.						
			Entrance Weir Depths (0.01 -	• 0.1 too low)						
0	0	0	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	0 0	SPE-2 (7.90 - 7.99)	0	0	0 0	0	0	0 0	0 0
0	U	U	SSE-1 (7.90 - 7.99) SSE-2 (set 6 ft above sill)	Not Applic.	U	U	U	U	U	U
			55E-2 (set o it above siii)	Not Applie.						

			South Ladder Differentials (0	01 0141	`					
		Not applicab	The state of the s	.01 - 0.1 too low	,					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station							
			South Ladder Differentials (0							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station South Ladder Differentials (0)		0	0	0	0	0	U
0	0	0	Ladder Exit	0.11 - 0.2 too mgi	0	0	0	0	0	0
0	ő	0	Ladder Weirs	ő	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials (r	nore than 0.2 too	high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0 0	0 0	0 0	Ladder Weirs	0	0	0 0	0 0	0 0	0 0	0
U	U		Counting Station Channel/Tailwater Different		U	U	U	U	U	U
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	Ö	0	0
0	0	0	South Shore	0	0	0	0	0	0	0
0	0		Channel/Tailwater Differenti		0	0	0		0	0
0 0	0 0	0 0	North Shore South Powerhouse	0	0	0	0	0	0 0	0
0	0	0	South Powernouse South Shore	0	0	0	0	0	0	0
			Bouth Bliote	0	- 0		- 0		-	U
			Channel/Tailwater Different	ials (0.90 - 0.99):						
0	0	0	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
			Channel/Tailwater Differenti	ials (2 01 - 2 10)						
0	0	0	North Shore	()	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	ő	ő	0	0	Ö
0	0	0	South Shore	0	0	0	0	0	0	0
0	0		Channel/Tailwater Differenti		0	0	0	0	0	0
0	0 0	0	North Shore South Powerhouse	0	0	0	0	0	0 0	0
0	0	0	South Shore	0	0	0	0	0	0	0
,			South Shore	<u></u>	,	V	,	,		, and the second
			Channel/Tailwater Differenti	ials (>2.20)						
0	0	0	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
			Entrance Weir Depths (more	than 0.2 too low	.)					
0	0	0	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) SSE-2 (set 6 ft above sill)	0 Not Applie	0	0	0	0	0	0
			SSE-2 (Set o It above SIII)	Not Applic.						
			Entrance Weir Depths (0.11 -	- 0.2 too low)						
0	0	0	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 0	0 0	SPE-2 (7.80 - 7.89)	0	0	0 0	$0 \\ 0$	0 0	0 0	0 0
U	U	U	SSE-1 (7.80 - 7.89) SSE-2 (set 6 ft above sill)	Not Applic.	U	U	U	U	U	U
			SSE-2 (Set o It above SIII)	тог дррис.						
			Entrance Weir Depths (0.01 -	• 0.1 too low)						
0	0	0	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	0 0	SPE-2 (7.90 - 7.99)	0	0	0 0	0	0	0 0	0 0
0	U	U	SSE-1 (7.90 - 7.99) SSE-2 (set 6 ft above sill)	Not Applic.	U	U	U	U	U	U
			55E-2 (set o it above siii)	Not Applie.						

			South Ladder Differentials (0.	01 - 0 1 too lo	w)					
		Not applicab	The second se	01 - 0.1 100 10	w)					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab			• .					
0	0	0	South Ladder Differentials (0.)		0 ,	0	0	0	0	0
0	0	0 0	Ladder Exit Ladder Weirs	0	0 0	$0 \\ 0$	0	0	$0 \\ 0$	0
0	0	0	Counting Station	o O	Ö	0	0	0	0	0
			South Ladder Differentials (0.	11 - 0.2 too hi						
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station South Ladder Differentials (m	0	()	0	0	0	0	0
0	0	0	Ladder Exit	ore man 0.2 t	00 mgn) ()	0	0	0	0	0
0	0	$\overset{\circ}{0}$	Ladder Weirs	ő	Ö	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			Channel/Tailwater Differentia							
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0 0	South Powerhouse	0	0	0	0	0	0 0	0
J	U	U	South Shore	0	U	J	U	- 0	- U	U
			Channel/Tailwater Differentia	als (0.80 - 0.89))					
0	0	0	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
			Channel/Tailwater Differentia	als (0 90 - 0 00))•					
0	0	0	North Shore	0.50 - 0.55	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
			CI 1/T !! / T-100 /!	1 (2.01 .2.10						
0	0	0	Channel/Tailwater Differentia North Shore	als (2.01 - 2.10 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
			Channel/Tailwater Differentia					^		
0	0 0	0 0	North Shore South Powerhouse	0	0	0	0	0	0	0
0	0	0	South Powerhouse South Shore	0	0	0	0	0	0	0
		- J	Bouth Bhole		· ·	0	0	0		
			Channel/Tailwater Differentia	als (>2.20)						
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0	0
U	0	0	South Shore	0	0	0	0	0	0	0
			Entrance Weir Depths (more t	than 0.2 too lo	ow)					
0	0	0	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) SSE-1 (< 7.80)	0	0 0	0	0	0	0	0
U	U	U	SSE-2 (set 6 ft above sill)	Not Applic.		U	U	U	U	U
			Entrance Weir Depths (0.11 -	0.2 too low)						
0	0	0	NSE-1 (7.80 - 7.89)	0	0	0	1	0	0	0
0	0	0	NSE-2 (7.80 - 7.89)	0	0	0	1 0	0	0	0
0	0 0	0 0	SPE-1 (7.80 - 7.89) SPE-2 (7.80 - 7.89)	0	0	0	0	0 0	0 0	0 0
0	0	0	SSE-1 (7.80 - 7.89)	0	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)	Not Applic.						
0	0	0	Entrance Weir Depths (0.01 - 0		0	0	0	0	0	0
0	0 0	0 0	NSE-1 (7.90 - 7.99) NSE-2 (7.90 - 7.99)	0	0 0	0 0	$0 \\ 0$	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
			SSE-2 (set 6 ft above sill)	Not Applic.						

			South Ladder Differentials (0.01 0.14 1	`					
		Not applicab	No. of the control of	J.U1 - U.1 100 10W)					
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab								
			South Ladder Differentials (
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0 0	0 0	Ladder Weirs Counting Station	0	0	0 0	0 0	0 0	0 0	0 0
U			South Ladder Differentials (U U	- U	U		U
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0		South Ladder Differentials (1			0	0	0	0	0
0 0	0	0 0	Ladder Exit Ladder Weirs	0	0	0	0	0	0 0	0 0
0	0	0	Counting Station	0	0	0	0	0	0	0
U	· ·		Channel/Tailwater Different		U	U	•	U	· ·	U
0	0	0	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
			CI 1/E 1 / D100	. 1. (0.00. 0.00)						
0	0	0	Channel/Tailwater Different North Shore	ials (0.80 - 0.89)	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
			Channel/Tailwater Different	` '						
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse South Shore	0	0	0	0	0	0 0	0
U	U	U	South Shore	U	U	U	U	U	U	U
			Channel/Tailwater Different	ials (2.01 - 2.10)						
0	0	0	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
			Channel/Tailwater Different	iala (2.11 - 2.20)						
0	0	0	North Shore	0	0	0	0	0	0	0
Ö	Ö	0	South Powerhouse	0	0	ő	ő	0	0	ő
0	0	0	South Shore	0	0	0	0	0	0	0
0	0		Channel/Tailwater Different		0	0	0	0	0	0
0	0	0	North Shore South Powerhouse	0	0	0	0 1	0	0 0	0 0
0	0	0	South Shore	0	0	0	0	0	0	0
			Entrance Weir Depths (more	than 0.2 too low						
0	0	0	NSE-1 (< 7.80)	0	0	0	0	0	0	0
0	0 0	0 0	NSE-2 (< 7.80) SPE-1 (< 7.80)	0	0	0	0 0	0 0	0 0	0 0
0	0	0	SPE-1 (<7.80) 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
			SSE-2 (set 6 ft above sill)	Not Applic.						
0	0	0	Entrance Weir Depths (0.11		0	0	0	0	0	0
0 0	0 0	0 0	NSE-1 (7.80 - 7.89) NSE-2 (7.80 - 7.89)	0	0 0	0 0	0 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	Ő	ő	0	Ő	Ő
			SSE-2 (set 6 ft above sill)	Not Applic.						
			E 4	014						
0	0	0	Entrance Weir Depths (0.01 NSE-1 (7.90 - 7.99)	- 0.1 too low)	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)	ő	0	0	0	0	0	0
0	0	0	SSE-1 (7.90 - 7.99)	0	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)	Not Applic.						

			South Ladder Differentials (0	0.01 - 0.1 too lo	w)					
		Not applicab								
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
		Not applicab	Counting Station South Ladder Differentials (0	01 01 too bi	ah)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	o O	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials (0		0 ,					
0	0	0	Ladder Exit Ladder Weirs	0 0	0	0	0	0	0	0
0 0	0 0	0 0	Counting Station	0	0	0 0	0 0	0	0 0	0 0
· ·	U		South Ladder Differentials (n			· ·	· ·	U	U	U
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	Channel/Tailwater Differenti North Shore	als (<0.80)	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
			Channel/Tailwater Differenti	` `						
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse South Shore	0	0	0	0 0	0	0	0
U	U	U	South Shore	0	U	U	U	0	0	U
			Channel/Tailwater Differenti	als (0.90 - 0.99):					
0	0	0	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
			Channel/Tailwater Differenti	inle (2 01 - 2 10	n					
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	Ō	South Powerhouse	Ö	Ö	0	0	0	0	0
0	0	0	South Shore	0	0	0	0	0	0	0
0	0	0	Channel/Tailwater Differenti North Shore	als (2.11 - 2.20 0	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0	0
0	ő	Ö	South Shore	0	Ö	0	0	0	ő	ő
			Channel/Tailwater Differenti							
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse South Shore	0	0	0	0	0	0	0
		, and the second	Bouth Bhore	, ,	, , ,		, ,	· ·	<u> </u>	
			Entrance Weir Depths (more	than 0.2 too lo						
0	0	0	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 0	0	SPE-1 (< 7.80) SPE-2 (< 7.80)	0	0	0 0	0 0	0	0 0	0
0	0	0	SSE-1 (< 7.80)	0	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)	Not Applic.				Ü		, and the second
0	0	0	Entrance Weir Depths (0.11 -	0.2 too low)	0	0	0	0	0	0
0 0	0 0	$0 \\ 0$	NSE-1 (7.80 - 7.89) NSE-2 (7.80 - 7.89)	1	0 0	0 0	0 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
			SSE-2 (set 6 ft above sill)	Not Applic.						
			Entrana Wair Dartha (6.01	0.1 too 1)						
0	0	0	Entrance Weir Depths (0.01 - NSE-1 (7.90 - 7.99)	0.1 too low)	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
			SSE-2 (set 6 ft above sill)	Not Applic.						

			G							
		Not applicab	South Ladder Differentials (0.0) Ladder Exit	1 - 0.1 too lo v Not applica						
0	0	Not applicat	Ladder Weirs	Not applica	0	0	0	0	0	0
	, and the second	Not applicab		Not applica		, and the second	· ·	, and the second	· ·	, and the second
			South Ladder Differentials (0.0	1 - 0.1 too hi	0 ,					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station South Ladder Differentials (0.1)	0 1 0.2 too bi	0	0	0	0	0	0
0	0	0	Ladder Exit	0.2 too m	gn) ()	0	0	0	0	0
Ö	0	o O	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials (mo	re than 0.2 to	oo high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0 0	0 0	Ladder Weirs	0 0	0 0	0 0	0 0	0	0 0	0 0
U	U	U	Counting Station Channel/Tailwater Differentials		U	U	U	U	U	U
0	0	0	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 North Shore	`		0	0	0	0	0
0	0	0	North Shore South Powerhouse	0	0	0	0	0	0	0
0	0	0	South Powerhouse South Shore	0	0	0	0	0	0	0
		, ,		<u> </u>				<u> </u>		
			Channel/Tailwater Differentials							
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse South Shore	0	0	0	0	0	0	0 0
U	U	U	South Shore	U	U	U	U	U	U	U
			Channel/Tailwater Differentials	s (2.01 - 2.10)					
0	0	0	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
			Channel/Tailwater Differentials	. (2.11 - 2.20	Λ.					
0	0	0	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		Channel/Tailwater Differentials		0	0	0	0	0	0
0	0	0 0	North Shore South Powerhouse	0	0	0	0	0	0	0
0	0	0	South Fowerhouse South Shore	0	0	0	0	0	0	0
-										
			Entrance Weir Depths (more th	an 0.2 too lo						
0	0	0	NSE-1 (< 7.80)	0	0	0	0	0	0	0
$0 \\ 0$	0 0	0 0	NSE-2 (< 7.80) SPE-1 (< 7.80)	0	0 0	0 0	0 0	0 0	0 0	0 0
0	0	0	SPE-1 (<7.80) SPE-2 (<7.80)	0	0	0	0	0	0	0
0	0	0	SSE-1 (< 7.80)	0	0	0	0	0	ő	0
			SSE-2 (set 6 ft above sill)	Not Applic.						
			D. W. D. W. C.	O						
0	0	Ω	Entrance Weir Depths (0.11 - 0.		0	0	0	0	0	0
$\begin{array}{c} 0 \\ 0 \end{array}$	0	0 0	NSE-1 (7.80 - 7.89) NSE-2 (7.80 - 7.89)	0 0	0	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
			SSE-2 (set 6 ft above sill)	Not Applic.						
			Entrance Weir Depths (0.01 - 0.	1 too low)						
0	0	0	NSE-1 (7.90 - 7.99)	0 (00 10w)	0	0	1	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 Not Applie	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)	Not Applic.						

			South Ladder Differentials (0.0							
0	0	0	Ladder Exit	Not applicable.	0	0	0	0	0	0
U	U	U	Ladder Weirs Counting Station	Not applicable.	0	U	U	0	0	U
			South Ladder Differentials (0.0							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
			South Ladder Differentials (0.	11 - 0.2 too high)						
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station South Ladder Differentials (me	0	0	0	0	0	0	0
0	0	0	Ladder Exit	0 ()	ugn) O	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	Ö	0	Counting Station	ő	0	ő	0	0	ő	0
			Channel/Tailwater Differentia	ds (<0.80)						
0	0	0	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 Differentia North Shore		0	0	0	0	0	Δ
0	0	0	North Shore South Powerhouse	0	0	0	0	0	0	0 0
0	0	0	South Powerhouse South Shore	0	0	0	0	0	0	0
U	<u> </u>	U	Journ Shore	J	- U		J	U	J	0
			Channel/Tailwater Differentia	ds (0.90 - 0.99):						
0	0	0	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
			Cl. 1/T. 11 / D100 /	1 (2.01 - 2.10)						
0	0	0	Channel/Tailwater Differentia North Shore	ds (2.01 - 2.10)	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0	0
0	0	0	South Flore	0	0	0	0	0	0	0
•	O O	· ·	South Bhore	· ·		, ,		V	J	
			Channel/Tailwater Differentia	ds (2.11 - 2.20)						
0	0	0	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
			Ch	1- (- 2 20)						
0	0	0	Channel/Tailwater Differentia North Shore	0 (>2.20)	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0	0
0	ő	0	South Shore	0	0	0	0	0	0	0
			Entrance Weir Depths (more t	han 0.2 too low)						
0	0	0	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	0	SPE-1 (<7.80)	0	0	0 0	0 0	0	0 0	0
$0 \\ 0$	0	0	SPE-2 (< 7.80) SSE-1 (< 7.80)	0	0	0	0	0	0	0 0
U	U	U	SSE-1 (< 7.80) SSE-2 (set 6 ft above sill)	Not Applic.	U	U	U	U	U	U
			232 2 (See o It ubove Sill)	тосттррис.						
			Entrance Weir Depths (0.11 - 0	0.2 too low)						
0	0	0	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	0	SPE-2 (7.80 - 7.89)	0	0 0	0	0	0	0	0
0	U	0	SSE-1 (7.80 - 7.89) SSE-2 (set 6 ft above sill)	0 Not Applic.	U	0	0	0	0	0
			55E-2 (set o it above sill)	Not Applie.						
			Entrance Weir Depths (0.01 - 0	0.1 too low)						
0	0	0	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
			SSE-2 (set 6 ft above sill)	Not Applic.						

			South Ladder Differentials (0.							
0	0	0	Ladder Exit Ladder Weirs	Not applicab	de.	0	0	0	0	0
U	U	U	Counting Station	Not applicab		U	U	U	U	U
			South Ladder Differentials (0.							
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	South Ladder Differentials (0. Ladder Exit	.11 - 0.2 too mg	(n)	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
Ö	Ö	0	Counting Station	Ö	Ö	Ő	Ö	Ö	ő	Ö
			South Ladder Differentials (m	ore than 0.2 to	o high)					
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station Channel/Tailwater Differentia		0	0	0	0	0	0
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	ő	0	0	ő	0
0	0	0	South Shore	0	0	0	0	0	0	0
	0	0	Channel/Tailwater Differentia			0	0		0	0
0	0	0 0	North Shore South Powerhouse	0	0	0	0	0	0 0	0 0
0	0	0	South Shore	0	0	0	0	0	0	0
-			Dough Diloro							
			Channel/Tailwater Differentia	als (0.90 - 0.99)						
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0	South Powerhouse South Shore	0	0	0	0	0	0	0
0	U	0	South Shore	0	U	0	0	0	0	0
			Channel/Tailwater Differentia	als (2.01 - 2.10)						
0	0	0	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
			Channel/Tailwater Differentia	ala (2.11 - 2.20)						
0	0	0	North Shore	0 (2.11 - 2.20)	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	ő	0	0	ő	0
0	0	0	South Shore	0	0	0	0	0	0	0
0	0	0	Channel/Tailwater Differentia 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 Flore	0	0	0	0	0	0	0
			Entrance Weir Depths (more	th <mark>an 0.2 too lo</mark> v						
0	0	0	NSE-1 (< 7.80)	0	0	0	0	0	0	0
0 0	0	0 0	NSE-2 (< 7.80) SPE-1 (< 7.80)	0	0 0	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
			SSE-2 (set 6 ft above sill)	Not Applic.						
			E 4 W L D d 40 44	0.24						
0	0	0	Entrance Weir Depths (0.11 - NSE-1 (7.80 - 7.89)	0.2 too low)	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)	o O	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
			SSE-2 (set 6 ft above sill)	Not Applic.						
			Entrance Weir Depths (0.01 -	0.1 too low)						
0	0	0	NSE-1 (7.90 - 7.99)	0.1 too low)	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 Not Applie	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)	Not Applic.						

			South Ladder Differentials (0. Ladder Exit	Not applicable						
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
			Counting Station	Not applicable			<u> </u>	<u>*</u>	<u> </u>	
			South Ladder Differentials (0.							
0	0	0	Ladder Exit Ladder Weirs	0	0 0	0	0	0	0	0
0	0 0	0 0	Counting Station	0	0	0 0	0 0	0 0	0 0	0
U	· ·		South Ladder Differentials (0.							, and the second
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	South Ladder Differentials (m Ladder Exit	ore than 0.2 too	high) ()	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
ő	Ö	Ö	Counting Station	ő	Ö	Ö	ő	ő	ő	Ö
			Channel/Tailwater Differentia	als (<0.80)						
0	0	0	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
			Channel/Tailwater Differentia	als (0.80 - 0.89)						
0	0	0	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
			Channel/Tailwater Differentia	ola (0 00 - 0 00).						
0	0	0	North Shore	0.90 - 0. 99).	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 Differentia		0	0		0	0	0
0	0	0	North Shore South Powerhouse	0	0 0	0	0	0	0	0
0	0	0	South Flore	0	0	0	0	0	0	0
			Channel/Tailwater Differentia							
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0 0	South Powerhouse South Shore	0	0 0	0	0 0	0 0	0 0	0
U	U	U	South Shore	U	U	U	U	U	U	U
			Channel/Tailwater Differentia	als (>2.20)						
0	0	0	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
			Entrance Weir Depths (more	than 0.2 too low)					
0	0	0	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) SSE-2 (set 6 ft above sill)	0 Not Applic.	0	0	0	0	0	0
			SSE-2 (set of trabove siii)	Not Applic.						
			Entrance Weir Depths (0.11 -	0.2 too low)						
0	0	0	NSE-1 (7.80 - 7.89)	0	0	0	0	0	0	0
0	0	0	NSE-2 (7.80 - 7.89)	0	0	1	0	0	0	0
0	0	0	SPE-1 (7.80 - 7.89)	0	0	0	0	0	0	0
0	0 0	0 0	SPE-2 (7.80 - 7.89) SSE-1 (7.80 - 7.89)	0	0 0	0 0	0 0	$0 \\ 0$	0 0	0 0
U	U	U	SSE-2 (set 6 ft above sill)	Not Applic.	U	U	U	J	U	U
				77						
			Entrance Weir Depths (0.01 -							
0	0	0	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	0 0	SPE-1 (7.90 - 7.99) SPE-2 (7.90 - 7.99)	0	0 0	0 0	0 0	$0 \\ 0$	0 0	0 0
0	0	0	SSE-1 (7.90 - 7.99)	0	0	0	0	0	0	0
Ü			SSE-2 (set 6 ft above sill)	Not Applic.						,

			South Ladder Differentials (0.	01 - 0 1 too low)					
			Ladder Exit	01 - 0.1 100 10 %	,					
0	0	0	Ladder Weirs	0	0	1	0	0	0	0
			Counting Station							
0	0		South Ladder Differentials (0.0	01 - 0.1 too higl 0		0	0	0	0	0
0	0 0	0 0	Ladder Exit Ladder Weirs	0	0	0 0	0 0	0 0	0 0	0 0
0	Ö	0	Counting Station	Ö	0	0	0	0	0	0
			South Ladder Differentials (0.	11 - 0.2 too higl		<u> </u>	<u> </u>			
0	0	0	Ladder Exit	0	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0	0
0	0	0	South Ladder Differentials (me Ladder Exit	ore than 0.2 too	o high) ()	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0	0
0	Ö	0	Counting Station	Ö	0	0	0	0	0	0
			Channel/Tailwater Differentia	ıls (<0.80)						
0	0	0	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
	Channel/Tailwater Differentials (0.80 - 0.89)									
0	0	0	North Shore	0 (0.80 - 0.89)	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
			Channel/Tailwater Differentia							
0	0	0	North Shore	0	0	0	0	0	0	0
0	0	0 0	South Powerhouse South Shore	0	0	0	0	0	0	0
U	· ·	U	South Shore		U	U	· ·	U	U	U
			Channel/Tailwater Differentia	ds (2.01 - 2.10)						
0	0	0	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
			Channel/Tailwater Differentia	Ja (2 11 - 2 20)						
0	0	0	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		Channel/Tailwater Differentia	` ′	0	0		0	0	0
0	0	0 0	North Shore South Powerhouse	0	0	0	0	0 0	0 0	0
0	0	0	South Powerhouse South Shore	0	0	0	0	0	0	0
					,		<u>, , , , , , , , , , , , , , , , , , , </u>		<u>, </u>	
			Entrance Weir Depths (more t	han 0.2 too low	7)					
0	0	0	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 0	SPE-1 (< 7.80) SPE-2 (< 7.80)	0	0	0	0 0	0	0 0	0 0
0	0	0	SSE-1 (<7.80)	0	0	0	0	0	0	0
U	· ·	U	SSE-2 (set 6 ft above sill)	· ·	U	U	· ·	· ·	· ·	U
			, , , , , , , , , , , , , , , , , , , ,							
			Entrance Weir Depths (0.11 - 0							
0	0	0	NSE-1 (7.80 - 7.89)	0	0	0	0	0	0	0
0	0	0	NSE-2 (7.80 - 7.89)	0	0	1	l C	1 0	0	0
0	0 0	0 0	SPE-1 (7.80 - 7.89) SPE-2 (7.80 - 7.89)	0	0	0 0	0 0	0	0 0	0 0
0	0	0	SSE-1 (7.80 - 7.89)	0	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)							
			,							
			Entrance Weir Depths (0.01 - 0							
0	0	0	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	0 0	SPE-1 (7.90 - 7.99) SPE-2 (7.90 - 7.99)	0	0	0 0	0 0	0 0	0 0	0 0
0	0	0	SSE-1 (7.90 - 7.99)	0	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)							

			South Ladder Differentials (0	01 0 1 too low	.)				
			Ladder Exit	.01 - 0.1 too low)				
0	0	0	Ladder Weirs	0	0	0	0	0	0
			Counting Station						
			South Ladder Differentials (0	.01 - 0.1 too hig	h)				
0	0	0	Ladder Exit	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0
			South Ladder Differentials (0	.11 - 0.2 too hig	h)				
0	0	0	Ladder Exit	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0
0	0	0	Counting Station	0	0	0	0	0	0
			South Ladder Differentials (n	ore than 0.2 to	o high)				
0	0	0	Ladder Exit	0	0	0	0	0	0
0	0	0	Ladder Weirs	0	0	0	0	0	0
0	0	Ö	Counting Station	0	Ö	0	0	0	0
<u> </u>			Channel/Tailwater Differenti	als (<0.80)					
0	0	0	North Shore	0	0	0	0	0	0
0	ő	0	South Powerhouse	0	0	0	ő	0	0
0	0	0	South Shore	0	0	0	0	0	0
0	· ·	<u> </u>	Bouth Bhore		<u> </u>	,	· ·	· ·	
			Channel/Tailwater Differenti	als (0.80 - 0.80)					
0	0	0	North Shore	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0
0	0	0	South Shore	0	0	0	0	0	0
U	0	U	South Shore		U	U	0	U	U
			Channel/Tailwater Differenti	ale (0 00 - 0 00)	•				
0	0	0	North Shore	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0
0	0	0	South Shore	0	0	0	0	0	0
U	U	U	South Shore	U	U	U	U	U	U
			Channel/Tailwater Differenti	ala (2.01 - 2.10)					
0	0	0				0	0	0	0
0	0 0	0	North Shore	0	0	0	0 0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0
U	U	U	South Shore	U	U	U	U	U	U
			Ch 1/T-:14 D:66	-1- (2.11 - 2.20)					
0	0	0	Channel/Tailwater Differenti North Shore	als (2.11 - 2.20)	0	0	0	0	0
0	0			0	0	0	0	0	0
		0	South Powerhouse	0					
0	0	0	South Shore	U	0	0	0	0	0
			CI I/E II (Price ()	1 (2.20)					
0		0	Channel/Tailwater Differenti		0			0	0
0	0	0	North Shore	0	0	0	0	0	0
0	0	0	South Powerhouse	0	0	0	0	0	0
0	0	0	South Shore	0	0	0	0	0	0
			Entrance Weir Depths (more						
0	0	0	NSE-1 (< 7.80)	0	0	0	0	0	0
0	0	0	NSE-2 (< 7.80)	0	0	0	0	0	0
0	0	0	SPE-1 (< 7.80)	0	0	0	0	0	0
0	0	0	SPE-2 (< 7.80)	0	0	0	0	0	0
0	0	0	SSE-1 (< 7.80)	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)						
			Entrance Weir Depths (0.11 -						
0	0	0	NSE-1 (7.80 - 7.89)	0	0	0	0	0	0
0	0	0	NSE-2 (7.80 - 7.89)	0	0	0	0	0	0
0	0	0	SPE-1 (7.80 - 7.89)	0	0	0	0	0	0
0	0	0	SPE-2 (7.80 - 7.89)	0	0	0	0	0	0
0	0	0	SSE-1 (7.80 - 7.89)	0	0	0	0	0	0
			SSE-2 (set 6 ft above sill)						
			Entrance Weir Depths (0.01 -	0.1 too low)					
0	0	0	NSE-1 (7.90 - 7.99)	0	0	0	0	0	0
0	0	0	NSE-2 (7.90 - 7.99)	0	0	0	0	0	0
0	0	0	SPE-1 (7.90 - 7.99)	0	0	0	0	0	0
0	0	0	SPE-2 (7.90 - 7.99)	0	0	0	0	0	0
0	0	0	SSE-1 (7.90 - 7.99)	0	0	0	0	0	0
U			SSE-2 (set 6 ft above sill)						

South Ladder Differentials (0.01	
Ladder Exit	Not applicable.
Ladder Weirs	1
Counting Station	Not applicable.
South Ladder Differentials (0.01	0.
Ladder Exit	0
Ladder Weirs	0
Counting Station	0
South Ladder Differentials (0.11	
Ladder Exit	0
Ladder Weirs	0
Counting Station	0
South Ladder Differentials (mor	
Ladder Exit	0
Ladder Weirs	0
Counting Station	0
Channel/Tailwater Differentials	
North Shore	0
South Powerhouse	0
South Shore	0
G. 167 H	(0.00 0.00)
Channel/Tailwater Differentials	
North Shore	0
South Powerhouse	0
South Shore	0
Channel/Tailwater Differentials	
North Shore	0
South Powerhouse	0
South Shore	0
C. 107 13 . 5100	(2.04 - 2.0)
Channel/Tailwater Differentials	
North Shore	0
South Powerhouse	0
South Shore	0
Channel/Tailwater Differentials	The state of the s
North Shore	0
South Powerhouse	0
South Shore	0
Ch1/T:14 Diff4:-1-	(- 2 20)
Channel/Tailwater Differentials	
North Shore	0
South Powerhouse	1 0
South Shore	0
Entrange Weir Douths (many 4)	on 0.2 too low)
Entrance Weir Depths (more th NSE-1 (<7.80)	an 0.2 too low)
NSE-1 (<7.80) NSE-2 (<7.80)	0
SPE-1 (<7.80)	0
SPE-1 (<7.80) SPE-2 (<7.80)	0
SSE-1 (<7.80)	0
SSE-1 (<7.80) SSE-2 (set 6 ft above sill)	0
SSE-2 (set oft above siii)	U
Entrance Weir Depths (0.11 - 0.	2 too low)
NSE-1 (7.80 - 7.89)	0
NSE-2 (7.80 - 7.89)	3
SPE-1 (7.80 - 7.89)	1
SPE-2 (7.80 - 7.89)	1
SSE-1 (7.80 - 7.89)	0
SSE-2 (set 6 ft above sill)	0
202 2 (000 0 10 400 00 5111)	*
Entrance Weir Depths (0.01 - 0.	1 too low)
NSE-1 (7.90 - 7.99)	2
NSE-2 (7.90 - 7.99)	1
SPE-1 (7.90 - 7.99)	1
SPE-2 (7.90 - 7.99)	0
SSE-1 (7.90 - 7.99)	0
SSE-2 (set 6 ft above sill)	0
202 2 (000 0 10 000 0 0111)	