

HENRY'S FORK WATERSHED COUNCIL

Annual Watershed Conference
November 10, 2015



Island Park Hydro



Island Park Hydro



Island Park Hydro



Island Park Hydro

Average Kwh Generation - 1995-2014
Kwhs

19,744,918

Island Park Hydro

Average Kwh Generation - 1995-2014 **19,744,918**
Kwhs

Enough to supply 1614 Residential Homes each year

Island Park Hydro

Average Kwh Generation - 1995-2014 **19,744,918**
Kwhs

Enough to supply 1614 Residential Homes each year

Highest Kwh Generation - 1997 **29,737,450**
Kwhs

Island Park Hydro

19,744,918 Kwhs

On average per year

Of Clean, Green, Renewable Energy

Island Park Hydro

19,744,918 Kwhs

*On average per year
Of Clean, Green, Renewable Energy*

*Offset 21,000 Tons of CO2 Emissions from Coal every
year.*

Island Park Hydro

19,744,918 Kwhs

*On average per year
Of Clean, Green, Renewable Energy*

*Offset 21,000 Tons of CO2 Emissions from Coal every
year*

*Offset 12,000 Tons of CO2 Emissions from Natural
Gas every year*

Island Park Hydro



Island Park Hydro

Aeration Basin

Designed to maintain 7 mg/l Oxygen or greater in the water

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Aeration Basin

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Two principle design criteria was used to develop the system:

Island Park Hydro

Aeration Basin

Designed to maintain 7 mg/l Oxygen or greater in the water

Two principle design criteria was used to develop the system:

1. The system must retain discharged water for 2 minutes at peak flows.

Island Park Hydro



Island Park Hydro

Aeration Basin

Designed to maintain 7 mg/l Oxygen or greater in the water

Two principle design criteria was used to develop the system:

- 1. The system must retain discharged water for 2 minutes at peak flows.*
- 2. Add 25,000 pounds of oxygen per day into the water.*

Island Park Hydro



Island Park Hydro



Island Park Hydro



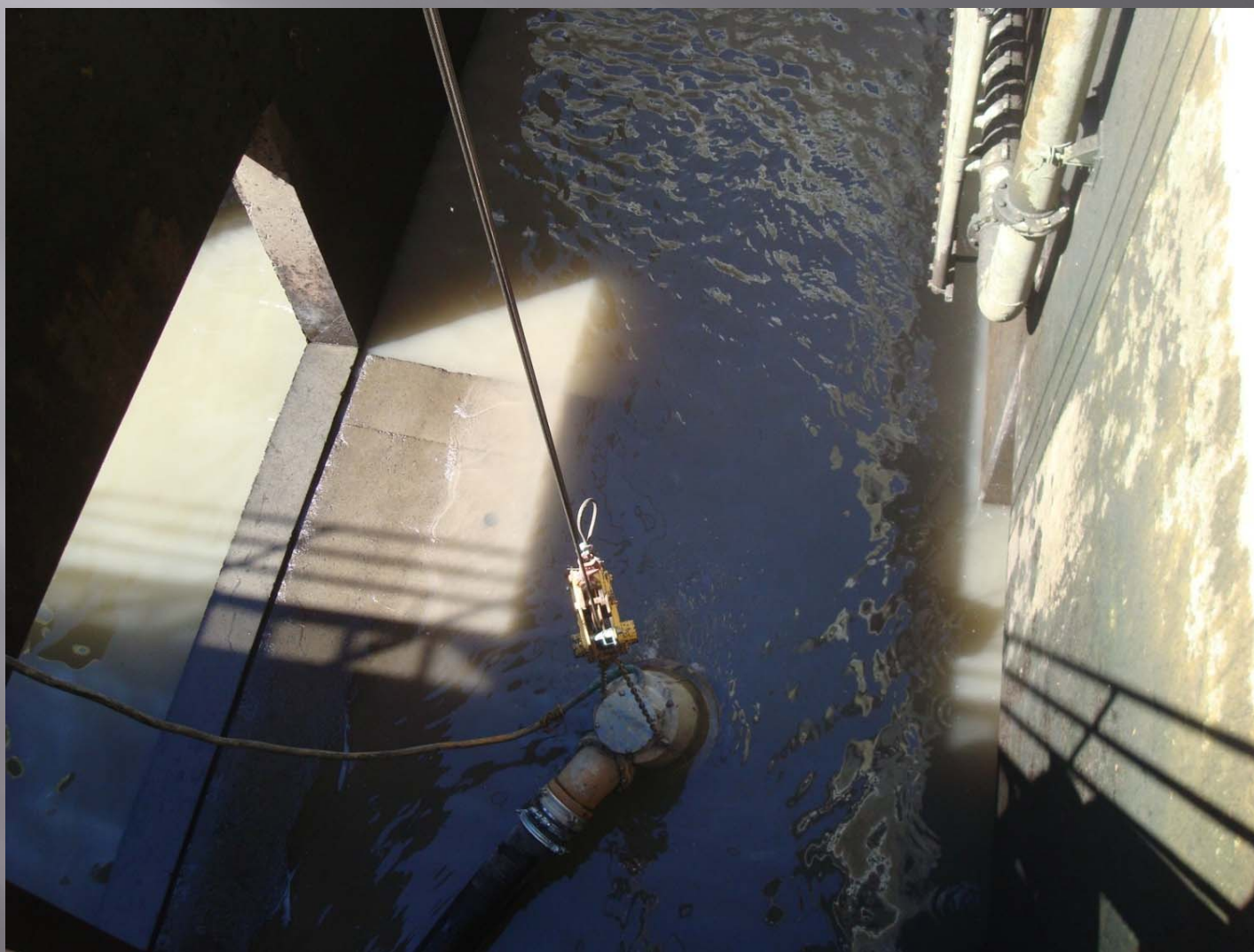
Island Park Hydro



Island Park Hydro



Island Park Hydro



Island Park Hydro



Island Park Hydro



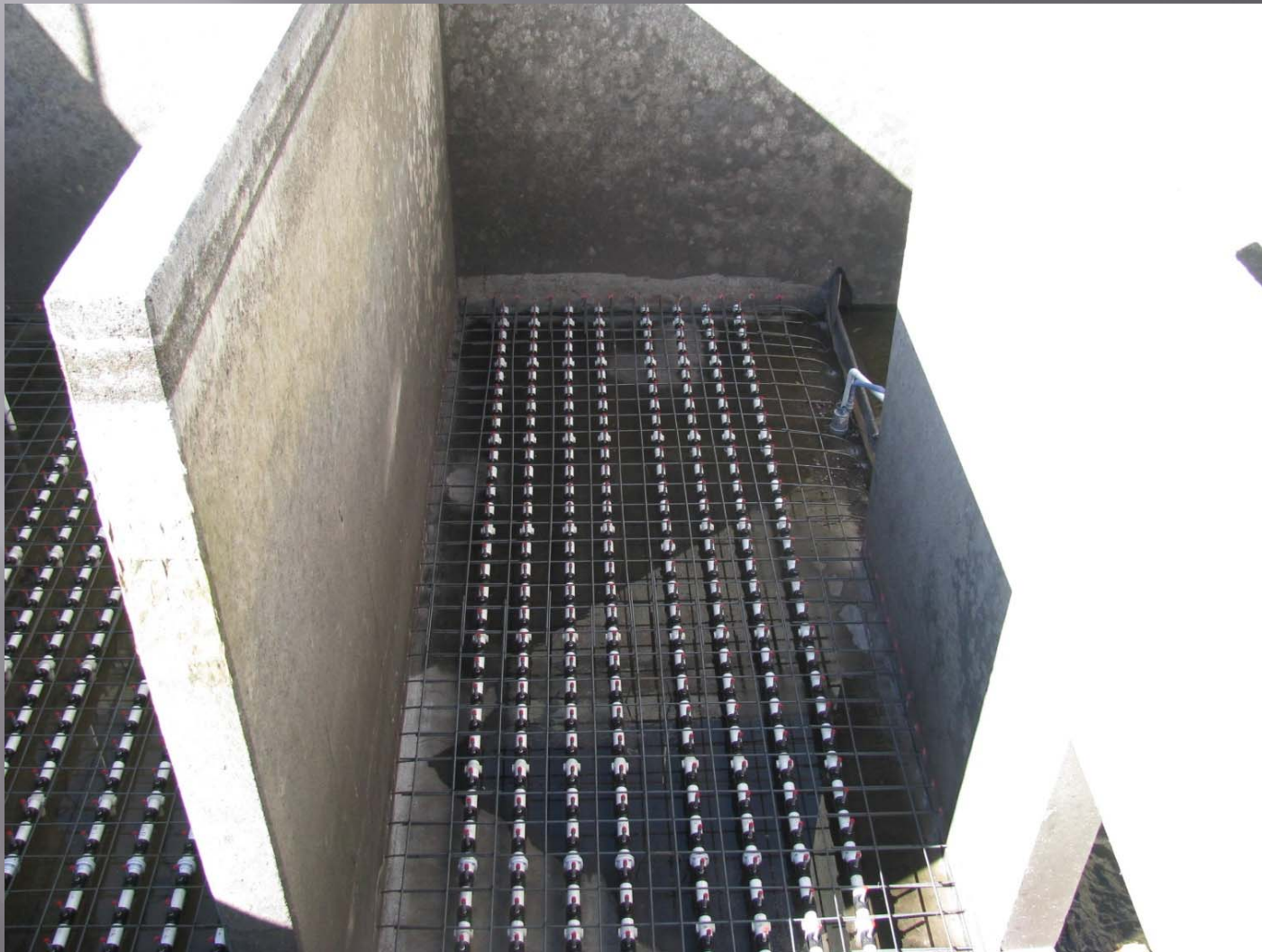
Island Park Hydro



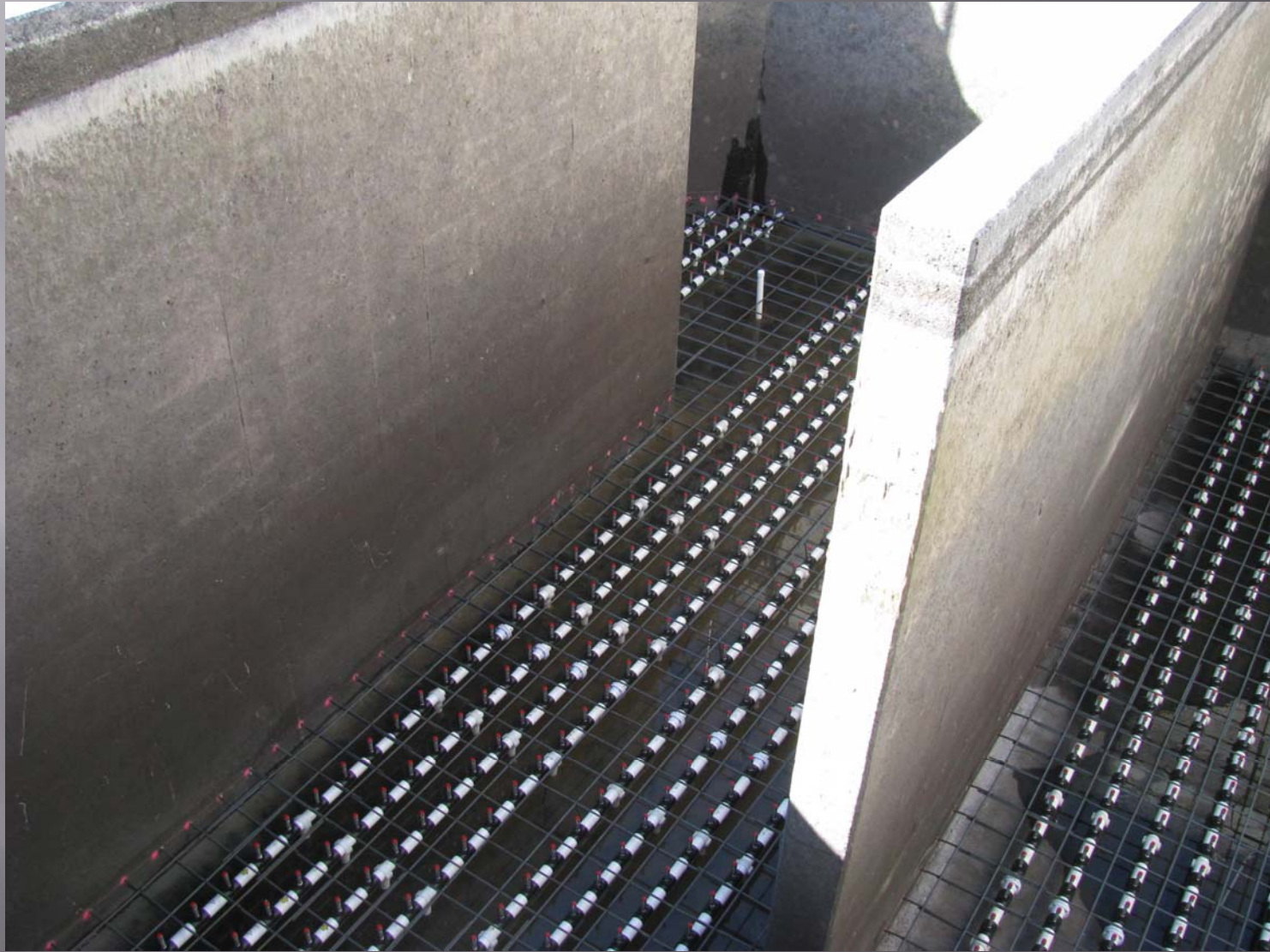
Island Park Hydro



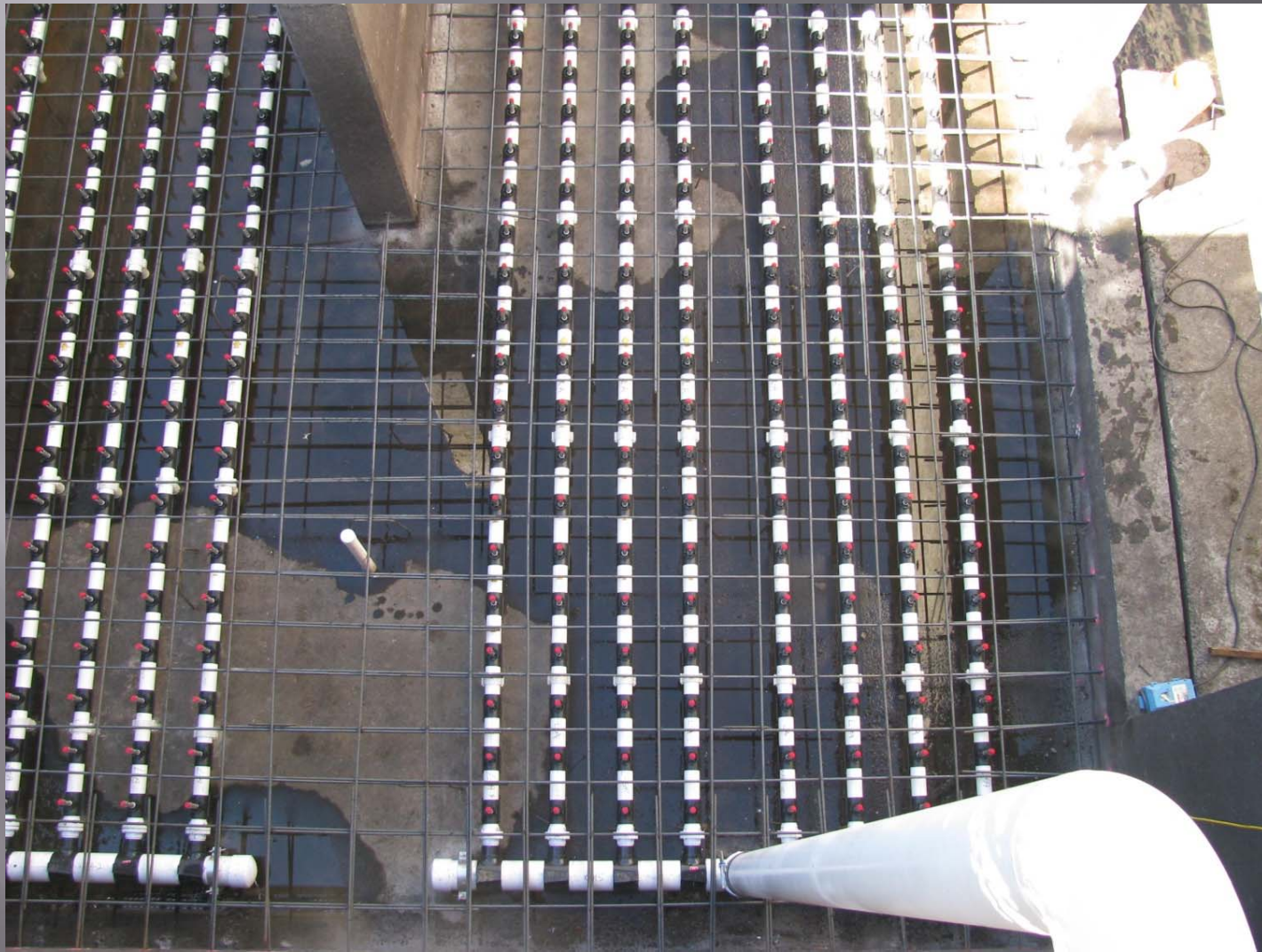
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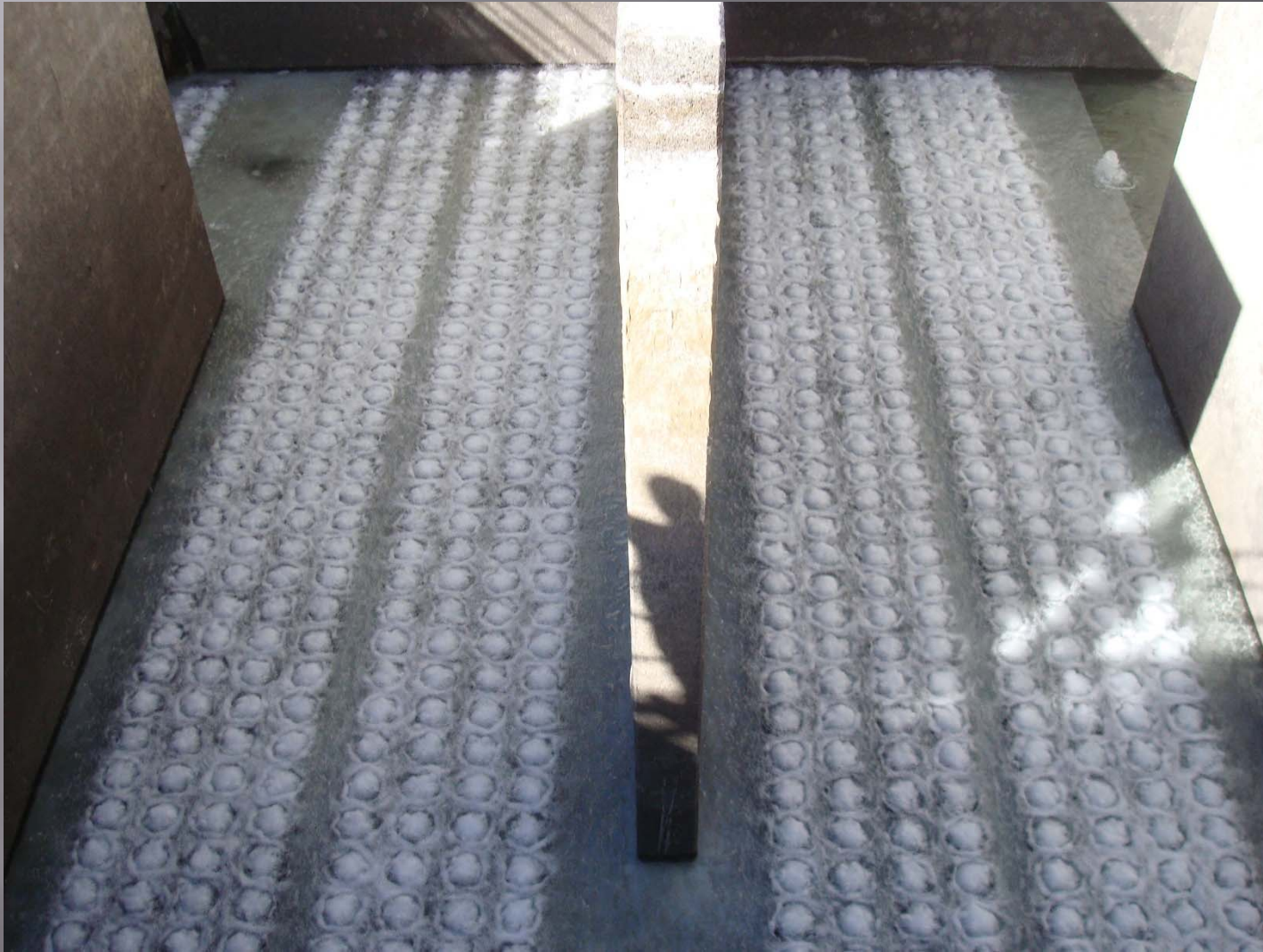
Island Park Hydro



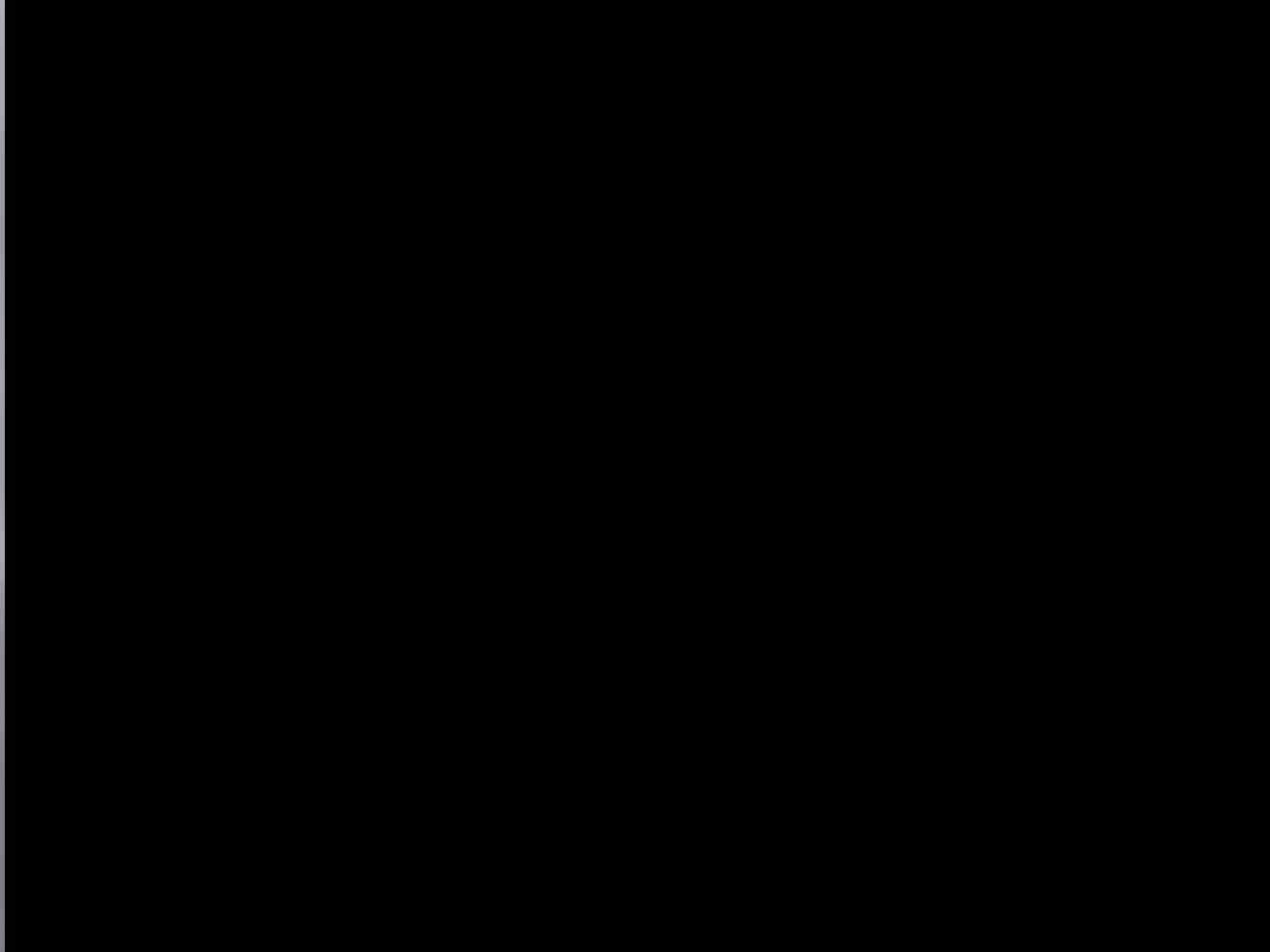
Island Park Hydro



Island Park Hydro



Island Park Hydro



Buffalo Hydro



Buffalo Hydro



Buffalo Hydro

Average Kwh Generation - 1995-2014
Kwhs

1,660,053

Buffalo Hydro

<i>Average Kwh Generation - 1995-2014</i> <i>Kwhs</i>	<i>1,660,053</i>
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<i>Average Kwh Generation - 2008-2012</i> <i>Kwhs</i>	<i>1,897,658</i>
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Buffalo Hydro

<i>Average Kwh Generation - 1995-2014</i>	<i>1,660,053</i>
<i>Kwhs</i>	

<i>Average Kwh Generation - 2008-2012</i>	<i>1,897,658</i>
<i>Kwhs</i>	

Enough to supply 155 Residential Homes each year

Buffalo Hydro

Average Kwh Generation - 1995-2014 **1,660,053**
Kwhs

Average Kwh Generation - 2008-2012 **1,897,658**
Kwhs

Enough to supply 155 Residential Homes each year

Highest Kwh Generation - 2009 **1,939,325**
Kwhs

Buffalo Hydro

1,897,658 Kwhs

*On average per year
Of Clean, Green, Renewable Energy*

Buffalo Hydro

1,897,658 Kwhs

*On average per year
Of Clean, Green, Renewable Energy*

*Offset 2,055 Tons of CO2 Emissions from Coal every
year*

Buffalo Hydro

1,897,658 Kwhs

*On average per year
Of Clean, Green, Renewable Energy*

*Offset 2,055 Tons of CO2 Emissions from Coal every
year*

*Offset 1,173 Tons of CO2 Emissions from Natural Gas
every year*

Buffalo Hydro



Buffalo Hydro



Buffalo Hydro



Buffalo Hydro



Buffalo Hydro



Buffalo Hydro



Buffalo Hydro



Buffalo Hydro

Fish Ladder

Buffalo Hydro

Fish Ladder

Became operational late 2005.

Buffalo Hydro

Fish Ladder

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Between March 2006 and June 2015 – 36,574 Rainbow Trout have been “counted” migrating upstream.

Buffalo Hydro

Fish Ladder

Became operational late 2005.

Between March 2006 and June 2015 – 36,574 Rainbow Trout have been “counted” migrating upstream.

Also thousands of Brook Trout and Whitefish.

Chester Hydro



Chester Hydro



Chester Hydro



Chester Hydro



Chester Hydro

*Average Estimated Kwh Generation -
Kwhs*

14,960,000

Chester Hydro

<i>Average Estimated Kwh Generation - Kwhs</i>	<i>14,960,000</i>
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<i>Average Estimated Kwh Generation - Kwhs</i>	<i>12,763,200</i>
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Chester Hydro

*Average Estimated Kwh Generation - 14,960,000
Kwhs*

*Average Estimated Kwh Generation - 12,763,200
Kwhs*

Enough to supply 1044 Residential Homes each year

Chester Hydro

*Average Estimated Kwh Generation - 14,960,000
Kwhs*

*Average Estimated Kwh Generation - 12,763,200
Kwhs*

Enough to supply 1044 Residential Homes each year

*Highest Kwh Generation - 2012 4,304,959
Kwhs*

Chester Hydro

*Average Estimated Kwh Generation - 14,960,000
Kwhs*

*Average Estimated Kwh Generation - 12,763,200
Kwhs*

Enough to supply 1044 Residential Homes each year

*Highest Kwh Generation - 2012 4,304,959
Kwhs*

2015 should beat 2012

Chester Hydro

12,763,200 Kwhs

*On average per year
Of Clean, Green, Renewable Energy*

Chester Hydro

12,763,200 Kwhs

*On average per year
Of Clean, Green, Renewable Energy*

*Offset 13,530 Tons of CO2 Emissions from Coal every
year*

Chester Hydro

12,763,200 Kwhs

*On average per year
Of Clean, Green, Renewable Energy*

*Offset 13,530 Tons of CO2 Emissions from Coal every
year*

*Offset 7,722 Tons of CO2 Emissions from Natural Gas
every year*

Chester Hydro



Chester Hydro



Chester Hydro



Chester Hydro



Chester Hydro



Chester Hydro



Chester Hydro



Chester Hydro



Questions?