



Teacher Workshop

Virtual Session

October 18, 2023

Welcome!

Share in chat:

School, grade &

Why are you excited to raise salmon with students this year?

Don't hit enter yet! We'll do that all together.



Presenters: SISS Leadership Team

Celina Steiger, IslandWood, Urban School Programs Partnerships Manager

Ry Yahn, Seattle Public Utilities, Stormwater Education Program Manager

Dan Hannafious, IslandWood, Salmon Specialist / general Seattle Area Coordinator

David Koon, Carkeek Watershed Community Action Project, Technical and Volunteer support

Judy Pickens, Fauntleroy Watershed Council, West schools Area Coordinator

Phil Sweetland, Fauntleroy Watershed Council, West schools Area Coordinator

Agenda

Introductions

Program Overview and Timeline

Overview of Seattle Salmon Streams

SISS Website and YouTube trainings

Classroom Connections

Next Steps and Q&A

October 28, Saturday, at

Jefferson Community Center, Beacon Hill

Topics:

Tank set up, maintenance and water quality &
Curricular connections and planning.

**Up to 5 STEM Clock Hours if
you attend both sessions.**

(\$3 fee per clock hour when claiming in PDEnroller)

Fill in Exit Ticket after each session!

Native Lands

Tribal communities have lived in this region since time immemorial.

Muckleshoot Tribe and Suquamish Tribe are our local tribes with treaty rights.
Duwamish Tribe is fighting for federal recognition.

Native Lands Map - <https://native-land.ca>



HOME

EVENTS

WHO WE ARE

SUPPORT

DUWAMISH TRIBE

SERVICES

NEWS AND EDUCATION

CONTACT

WE ARE STILL HERE.

We are the People of the Inside, dx^wdəwʔabš

STAND WITH THE
DUWAMISH

VISIT THE LONGHOUSE
& CULTURAL CENTER

LEARN ABOUT REAL
RENT DUWAMISH



WELCOME TO DUWAMISH LAND. WE ARE THE HOST TRIBE OF SEATTLE AND KING COUNTY

Photo copyright of the [Duwamish Tribe](https://www.duwamishtribe.org/). Used with permission from <https://www.duwamishtribe.org/>.



WHAT IS SALMON IN THE SCHOOLS?

A program that uses the **rearing of salmon** to develop an understanding of:

- **Biological processes and systems**
- **Local habitats and ecosystems**
- **Environmental stewardship**
- **The importance of salmon to Pacific Northwest culture and commerce.**



Who is involved in SISS?

A **coalition of City staff, community-based organizations and volunteers** supporting salmon-based opportunities for public and private students in Seattle to build stewardship and environmental literacy.

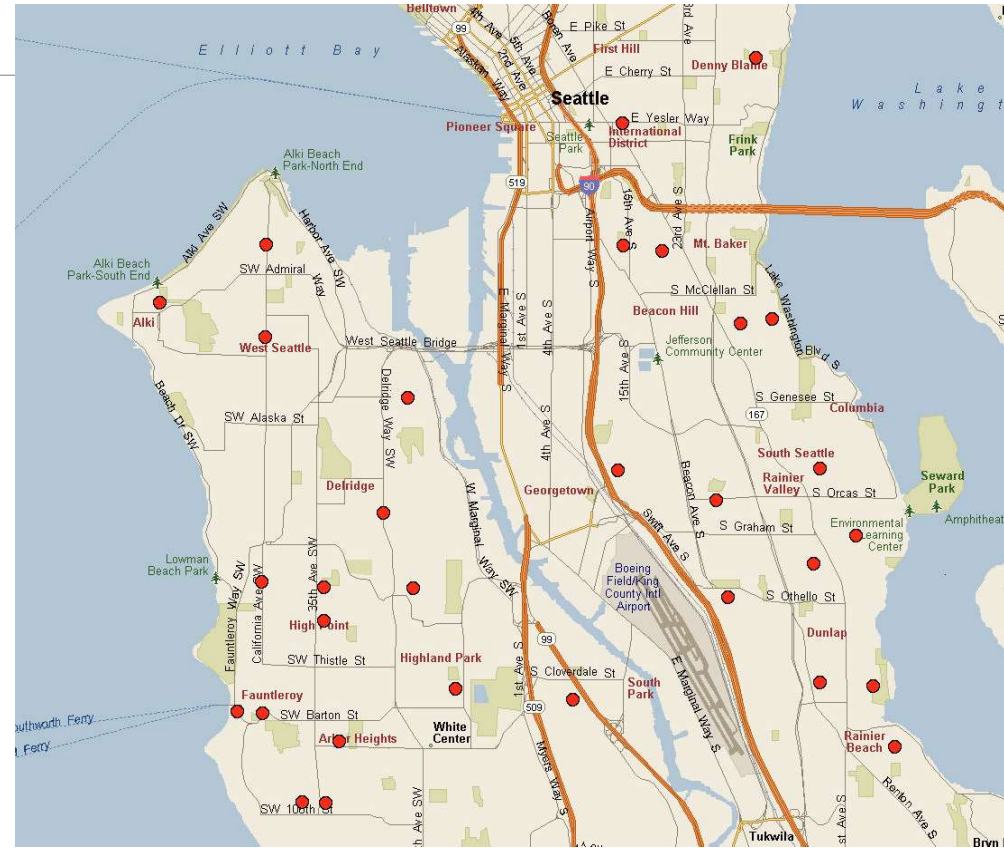
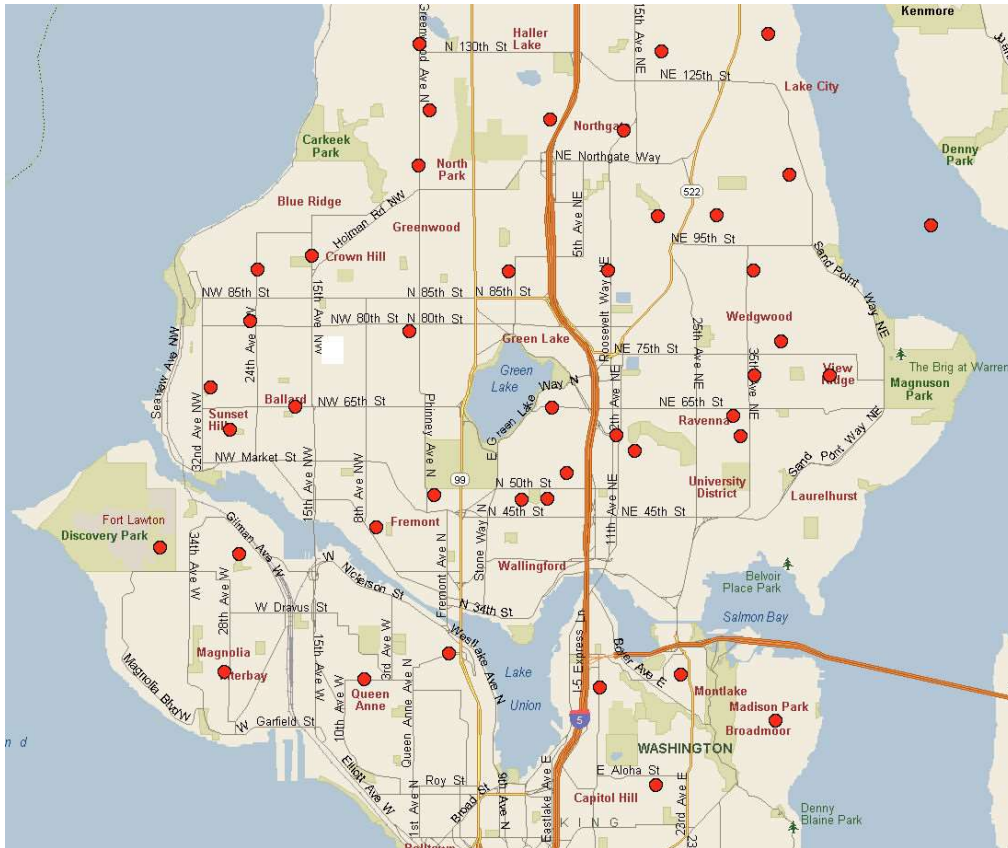
SIS-Seattle provides **resources and expertise** to enable teachers to offer school-wide, hands-on learning through the rearing of salmon.

SIS-Seattle is one of **several regional intermediaries** between schools and the State Department of Fish and Wildlife, making sure that schools get eggs and that the program meets all state requirements.

SIS-Seattle is maintained through **volunteer efforts, governmental funding, and school support**.

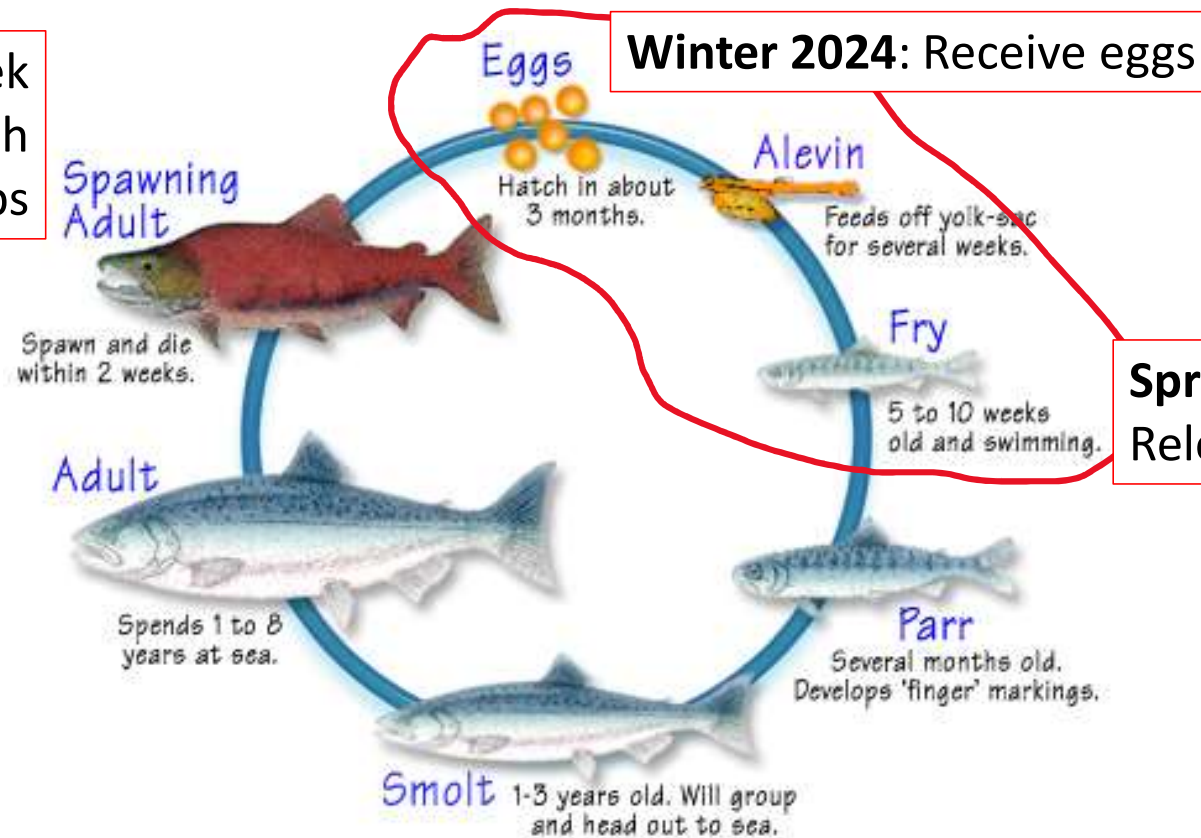
PARTICIPATION

74 PUBLIC AND PRIVATE SCHOOLS
IN SEATTLE HAVE PERMITS FOR THIS SCHOOL YEAR.



Salmon Life Cycle

Fall 2023: Carkeek
Salmon Search
Field Trips



Salmon Year Timeline

(COHO OR CHUM)



October	November	December	January	February	March	April	May
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October – November

- Prepare tank.
- Devise ways for students to observe it.

Early January

- Receive or pick up eyed eggs.
- Orient students.

Late January – Early March

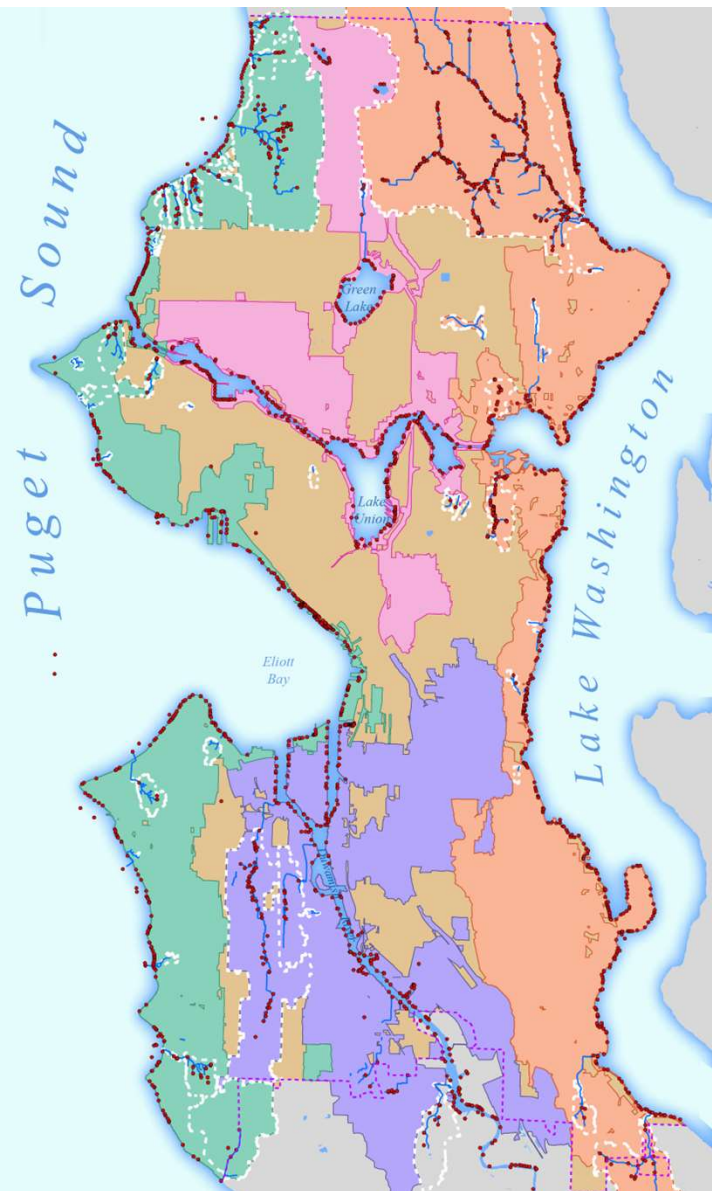
- Engage students in observing fish, including feeding and testing water quality.
- Apply other learning resources.
- Register for salmon release.

April - May

- Release fry at permit location and explore with students as you are able.
- File release report.
- Sign up for next year.

Stormwater runoff is the **biggest source of ongoing pollution** into Puget Sound and impacts the health of wildlife and people.









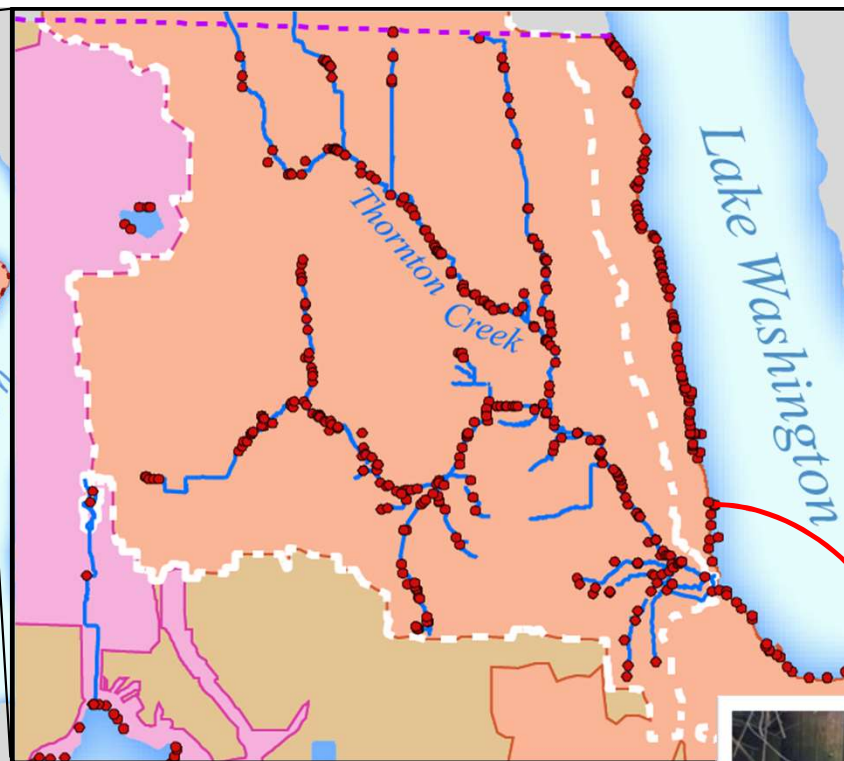
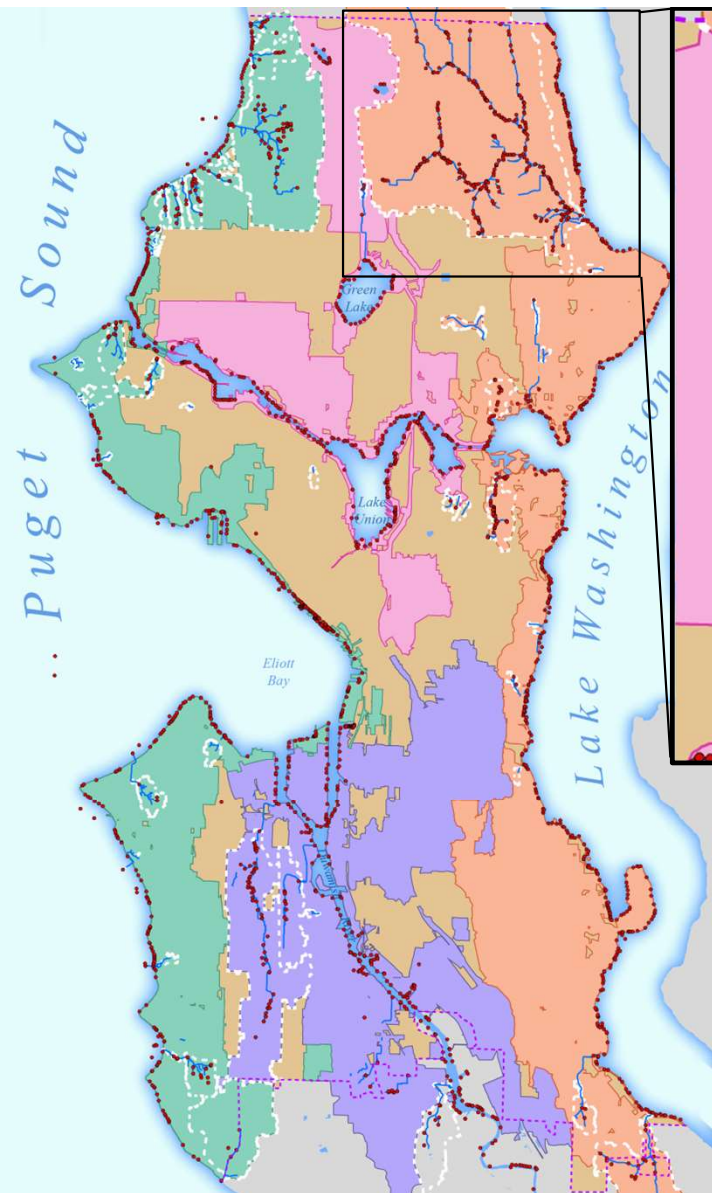


Where do our storm drains go?



Depending on where you are in the city, storm drains empty into different waterbodies.

-  Puget Sound
-  Lake Washington
-  Lake Union/Ship Canal
-  Duwamish River
-  Combined Sewer Basin
-  Creek Watershed



Polluted stormwater enters storm drains and is carried by underground pipes to local creeks, lakes, rivers, and Puget Sound.

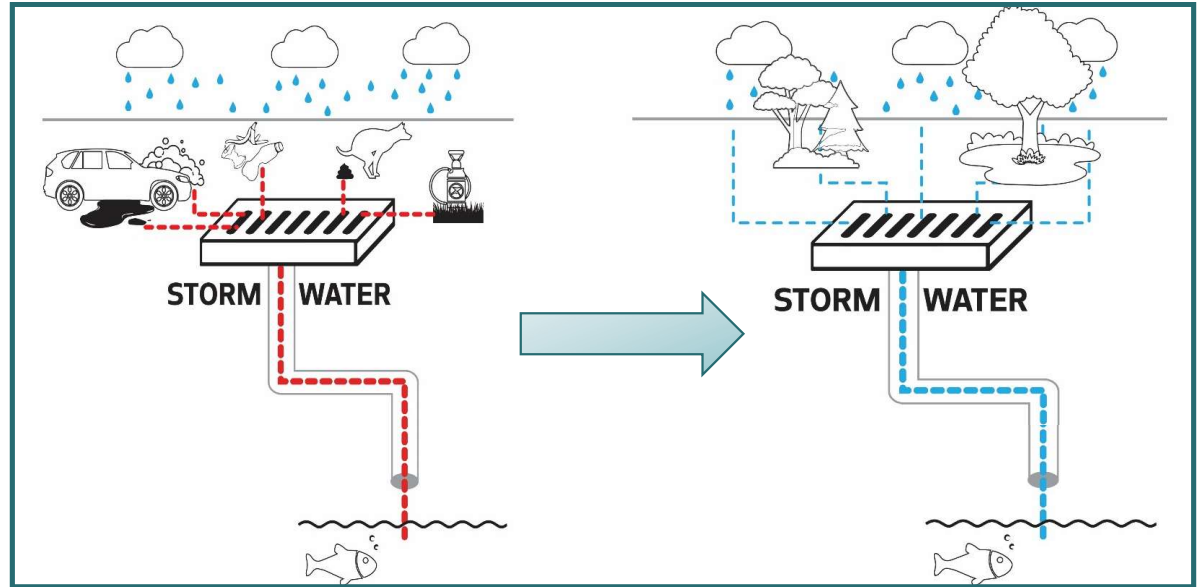


Protecting our Waters



STORM DRAIN CARE

- Keep trash and plastics out of storm drains.
- Keep leaves and debris from clogging storm drains.
- Stencil a storm drain to spread awareness



PET WASTE CARE

- Pick up pet waste and throw it away, even in your yard
- Don't put pet waste in the compost, even if the bag is compostable



CAR CARE

- Wash your car at a commercial carwash or on your lawn.
- Get your car checked regularly for motor oil leaks or drips.



NATURAL YARD CARE

- Use compost to reduce the need for pesticides and fertilizers.
- Build or support a rain garden.
- Plant a tree.



Seattle
Public
Utilities

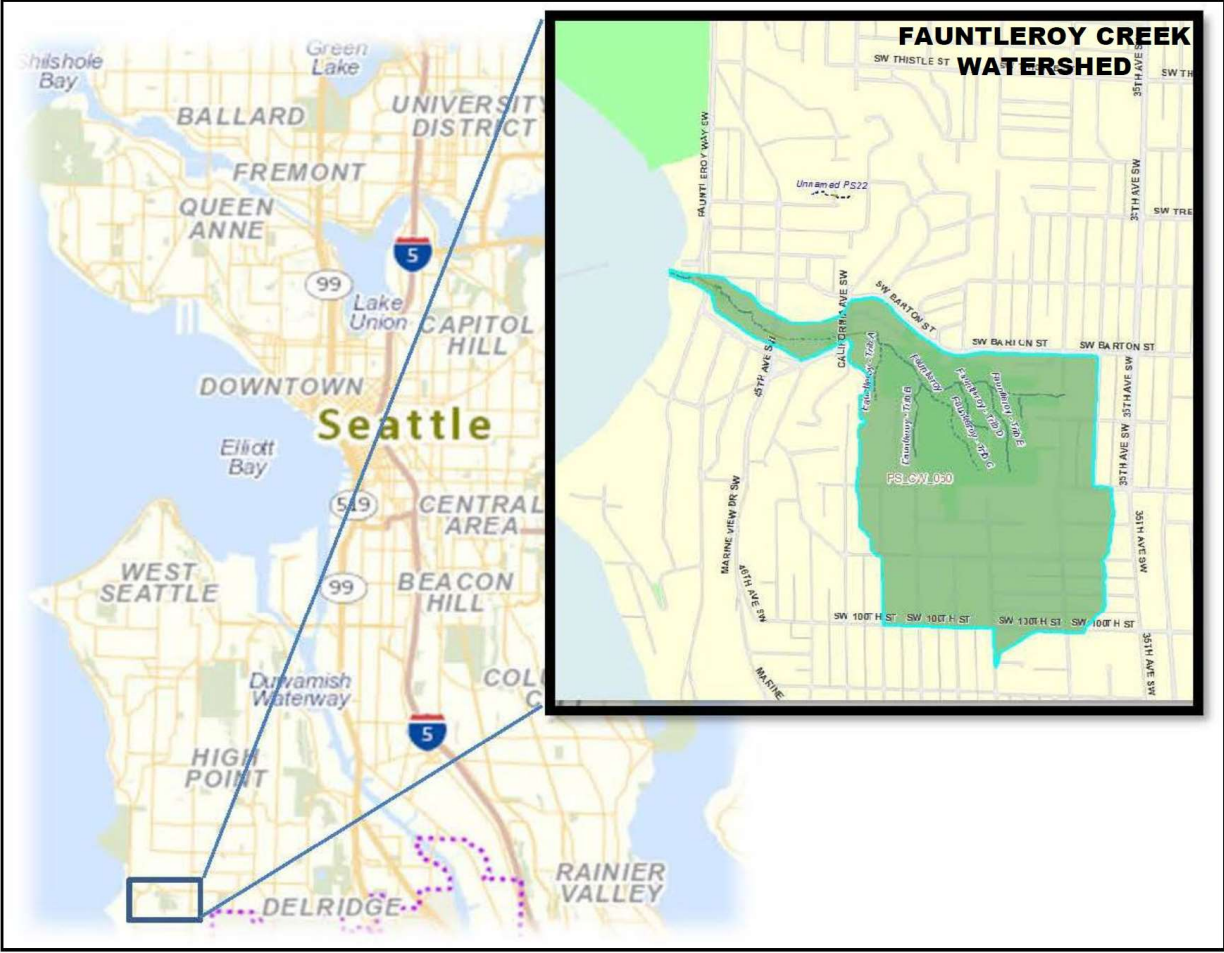


Breakout
Rooms for
your
watershed!



Fauntleroy Creek

FAUNTLEROY CREEK WATERSHED

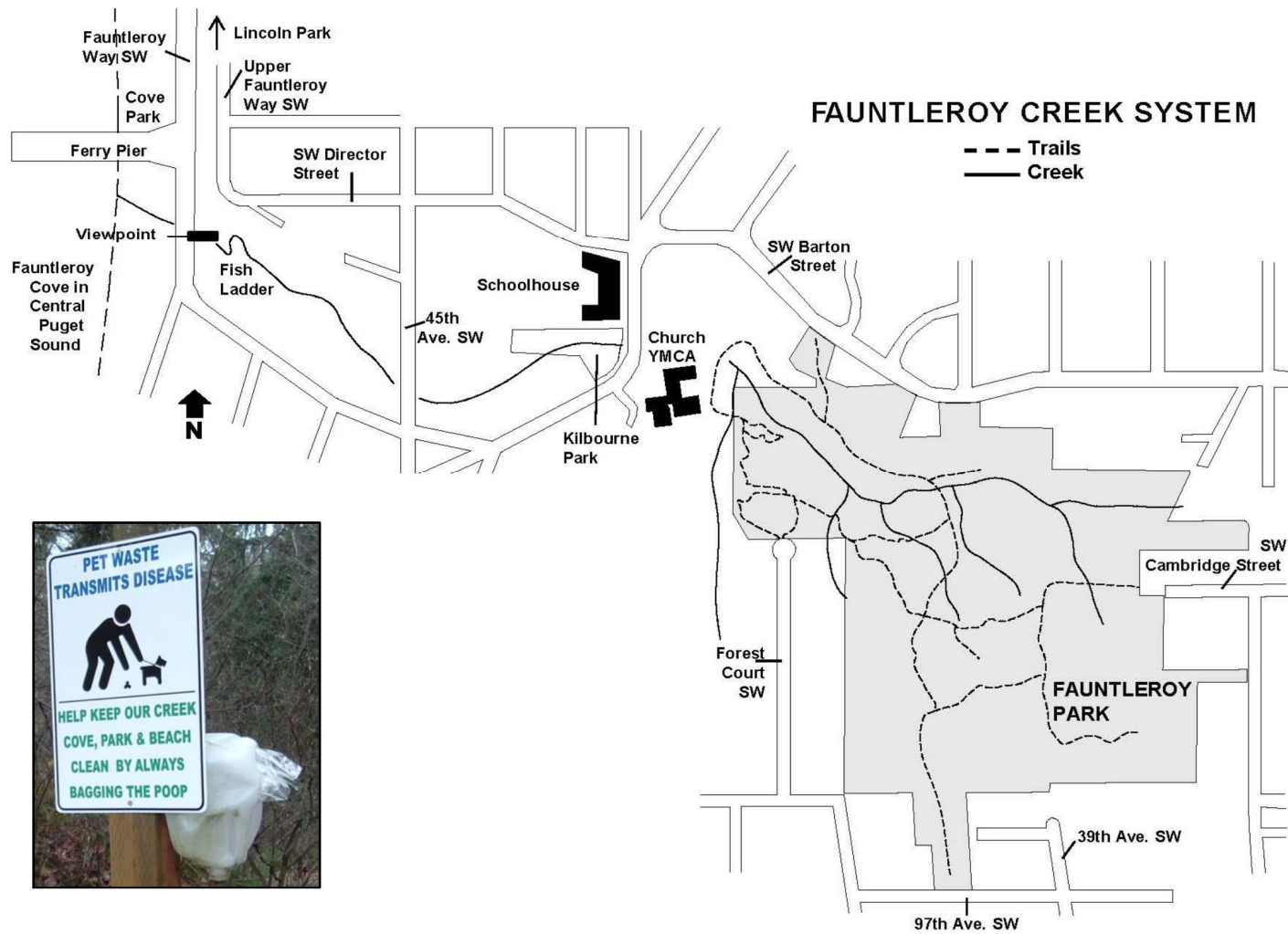


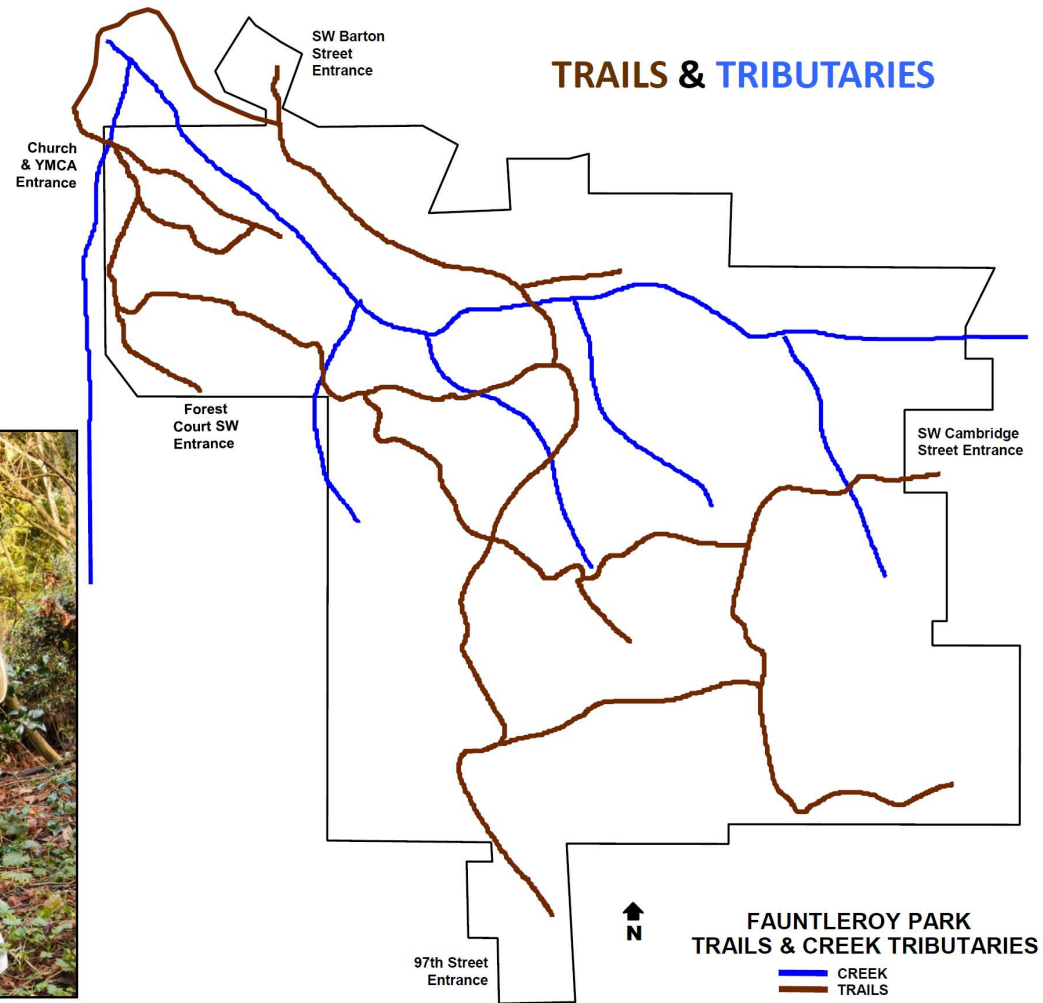


**HISTORIC &
ENGINEERED
BOUNDARIES**

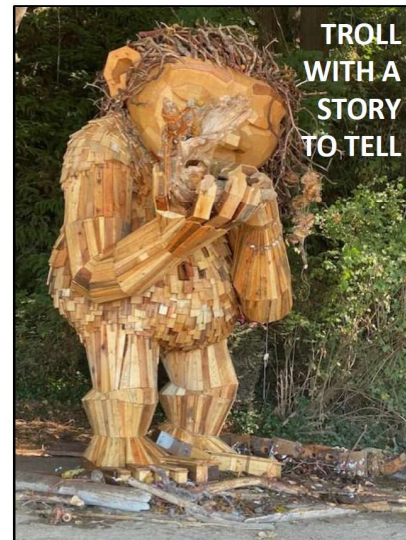
WATERSHED AS BREADBASKET











CONCERNS OF NOTE



ON THE PLUS SIDE





Area Coordinators

judy_pickens@msn.com

phil_sweetland@msn.com

206-938-4203



Questions about Fauntleroy Creek

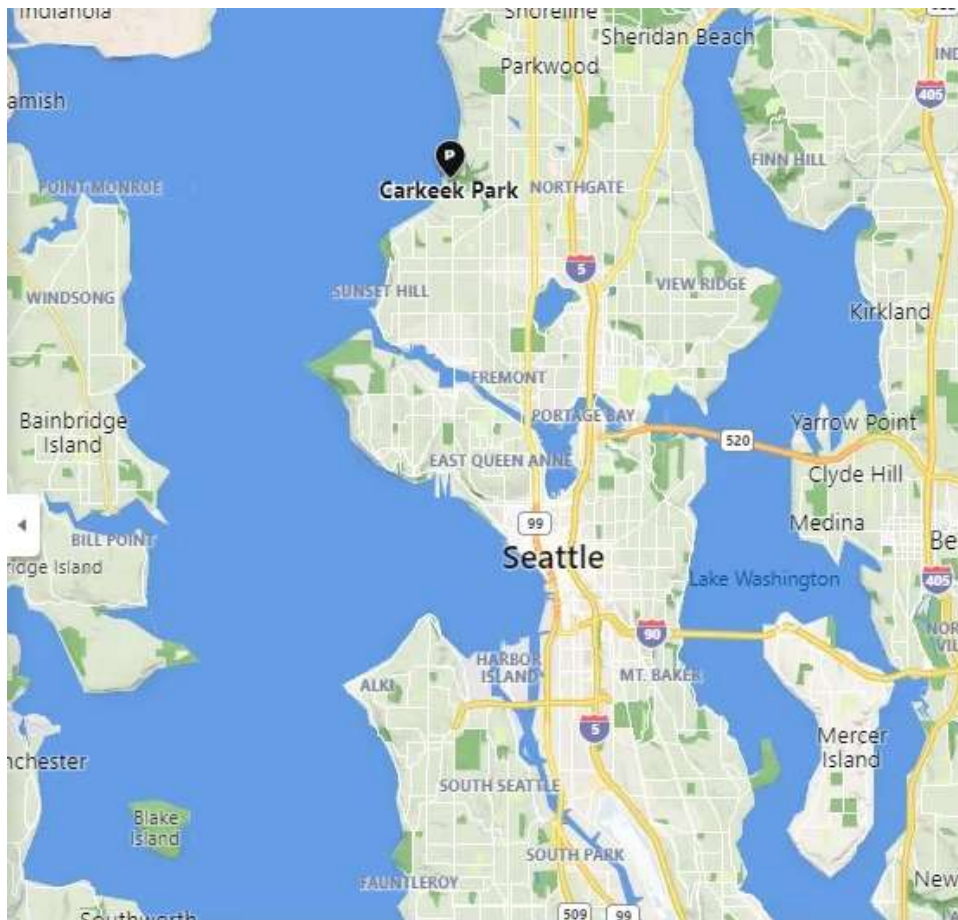


Piper's Creek

Salmon In Piper's Creek



Location of Carkeek Park and the Piper's Creek Watershed



Important Dates for Salmon in Piper's Creek

1880's - Logging began in the

Late 1800's to 1920's – Saw Mill and Brick Factory operating

1921 - Last virgin timber logged

1927 - Last wild salmon 1927

1929 - 223 acres acquired for park

1970's – Some restoration work in the park begins

1979 – CWCAP formed

1980 - Salmon enhancement began

1987 – Switch from Coho to Chum Salmon

1987 - 1999 - In-channel imprint pond

2000 - present - Off-channel imprint pond

2002 - First silt trap constructed

2006-2007 - New, improved silt traps

2009 - Improved water intake system

1987 - 2002 - Eyed eggs and fed fry from the Suquamish Tribe Minter Creek Hatchery in the South-Sound

2003 to present - Eyed eggs and fed fry from the Suquamish Tribe Mid-Sound Grover's Creek Hatchery

Les Malmgren Imprint Pond in Carkeek Park



Chum Salmon Stats for Carkeek Park

YEAR	Spring FRY delivery	DAYS IMPRINTED (1)	FRY RELEASED	Egg Tank EYED EGGS (3)	Egg Tank Fry (est.)(4)	SISS EYED EGGS	SISS Fry	Total Release (5)	SISS (schools)	RETURN (2)
1987	9,700	n								
1988	9,000	n								
1989	10,000	y								
1990	10,000	y				1,000		11,000	2	
1991	30,000	Y				2,000		32,000	3	
1992	30,000	y				2,500		32,500	5	
1993	58,000	y				2,800		60,800	5	300
1994	35,000	n/sw				2,800		37,800	5	93
1995	35,000	n/sw				2,800		37,800	14	223
1996	35,000	n/sw				4,000		39,000	21	608
1997	40,000	n/sw				7,000		47,000	17	9
1998	35,000	y				4,000		39,000	21	137
1999	70,000	n/sw				5,000		75,000	23	17
2000	70,000	23				5,000		75,000	23	16
2001	70,000	13				5,000		75,000	24	141
2002	70,000	44				5,000		75,000	24	354
2003	70,000	15				5,000		75,000	25	202
2004	48,000	15				5,000		53,000	25	87
2005	35,000	15				5,000		40,000	26	113
2006	20,000	y				5,000		25,000	25	354
2007	39,000	30				5,000		44,000	23	439
2008	56,000	15				5,000		61,000	20	79
2009	67,000	14				5,000		72,000	21	17
2010	59,000	14				5,000		64,000	19	48
2011	60,000	30				5,000		65,000	19	166
2012	70,000	30				5,000		75,000	24	163
2013	58,000	30		?		5,000		63,000	23	400
2014	74,000	30		20,000		5,000		99,000	22	551
2015	70,000	28.5		20,900		5,000	4,142	95,042	22	252
2016	64,000	25, 51		31,000		5,000	3,953	98,953	21	240
2017	67,500	22, 20		30,000		6,384	5,273	102,773	28	338
2018	70,000	46, 67	67,386	30,000	27,000	5,060	4,115	98,501	23	312
2019	69,000	37, 46	60,257	30,000	29,000	5,280	4,221	93,478	24	54
2020	22,000	62	14,854	10,000	8,800	5,280	4,765	28,419	24	190
2021	69,000	39, 33	67,009	30,000	27,300	1,320	1,079	95,388	6	939
2022	77,500	40, 44	75,422	30,000	27,000	3,960	2932	105,294	18	



Lake Washington



Lake Washington Salmon



2015/02/13
20:56:00



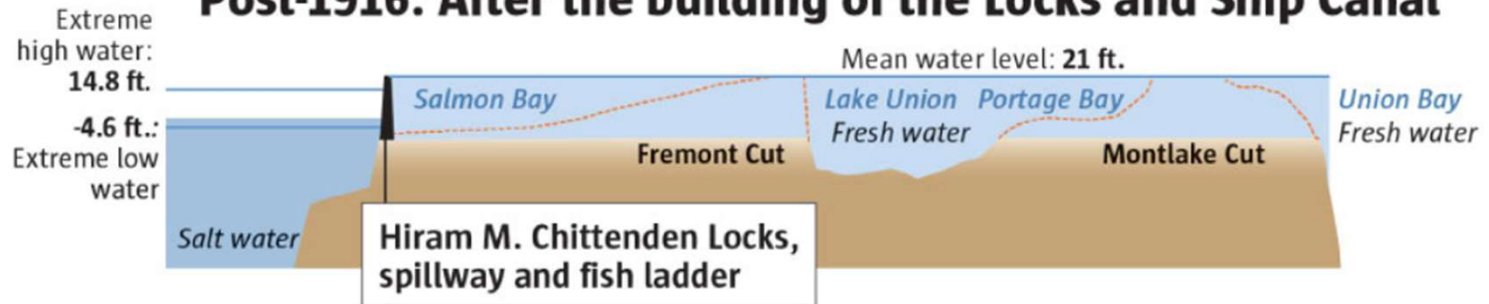
EX 12



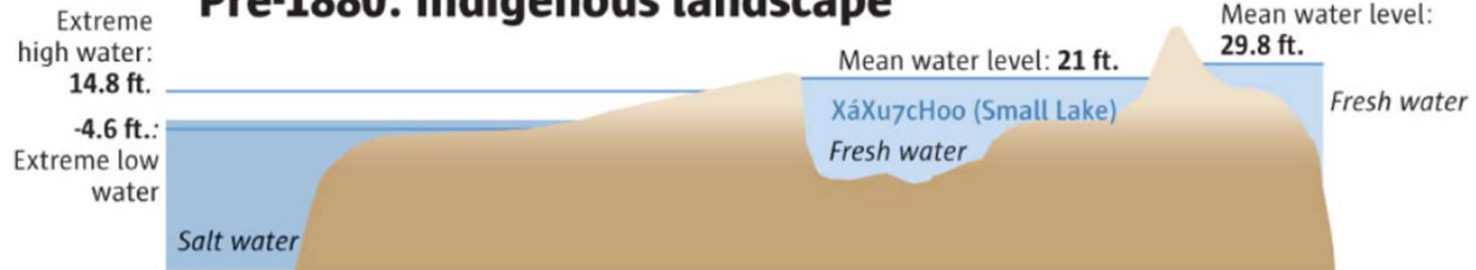
This 1916 view looking east shows the Ballard Locks and administrative buildings at the center, with Salmon Bay and the smokestacks of industrial Ballard beyond.

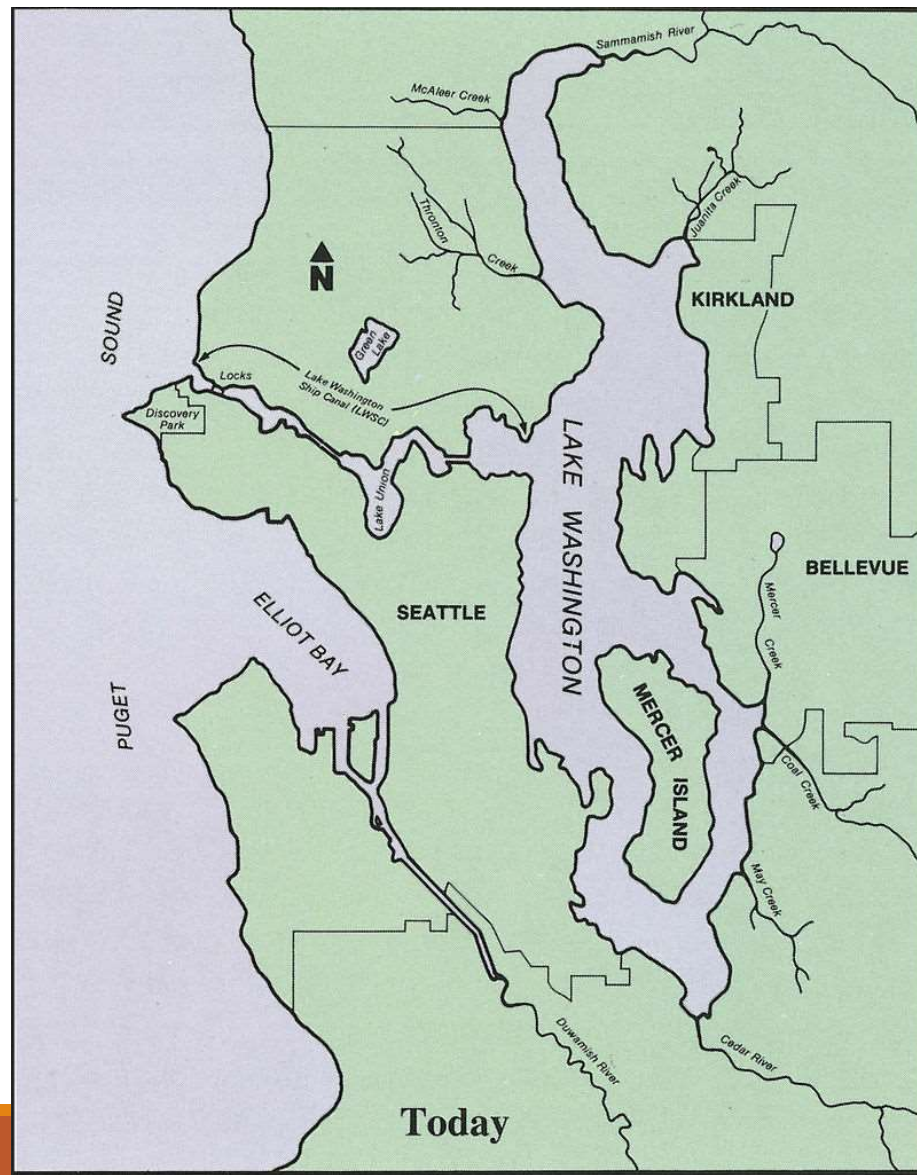
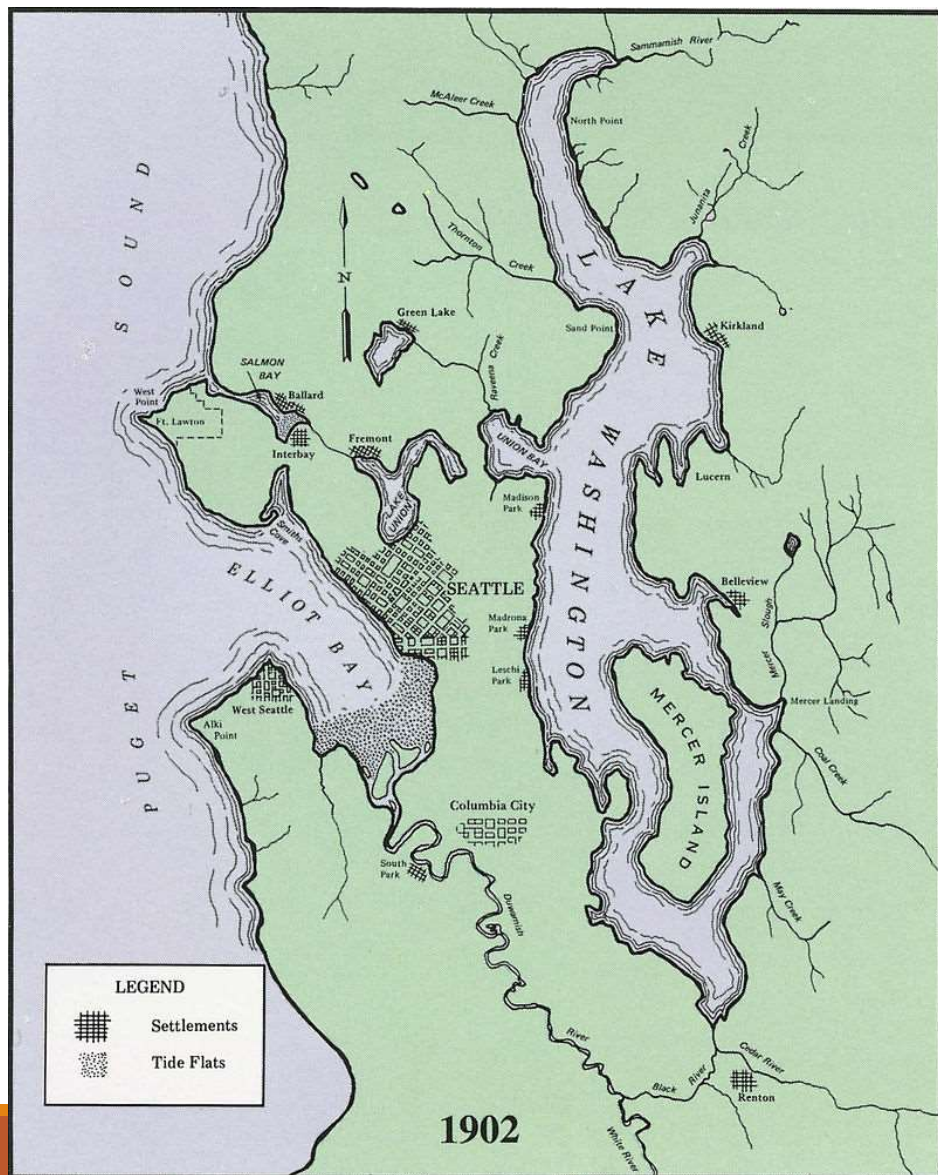
THE SEATTLE TIMES FILE, 1916

Post-1916: After the building of the Locks and Ship Canal

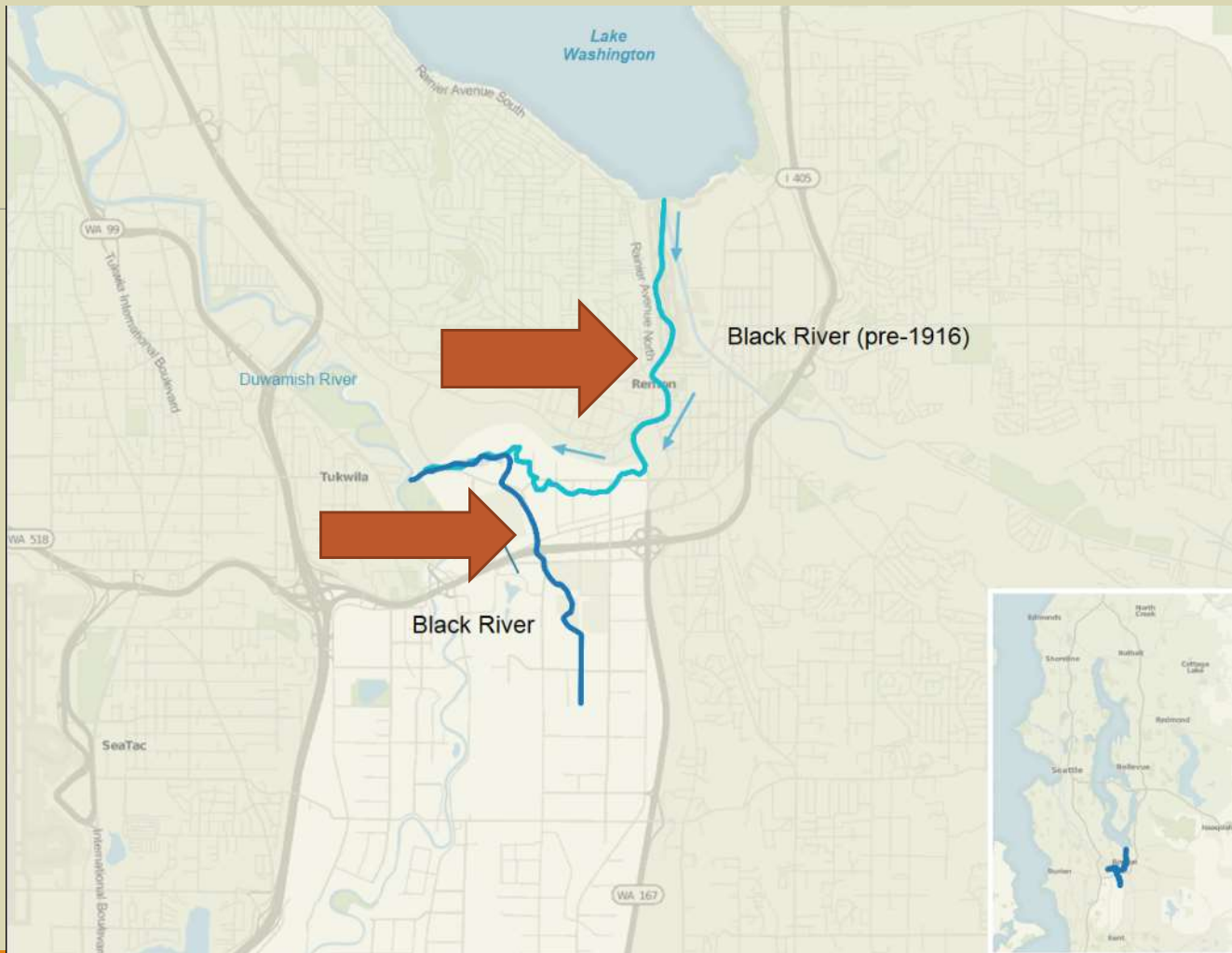


Pre-1880: Indigenous landscape

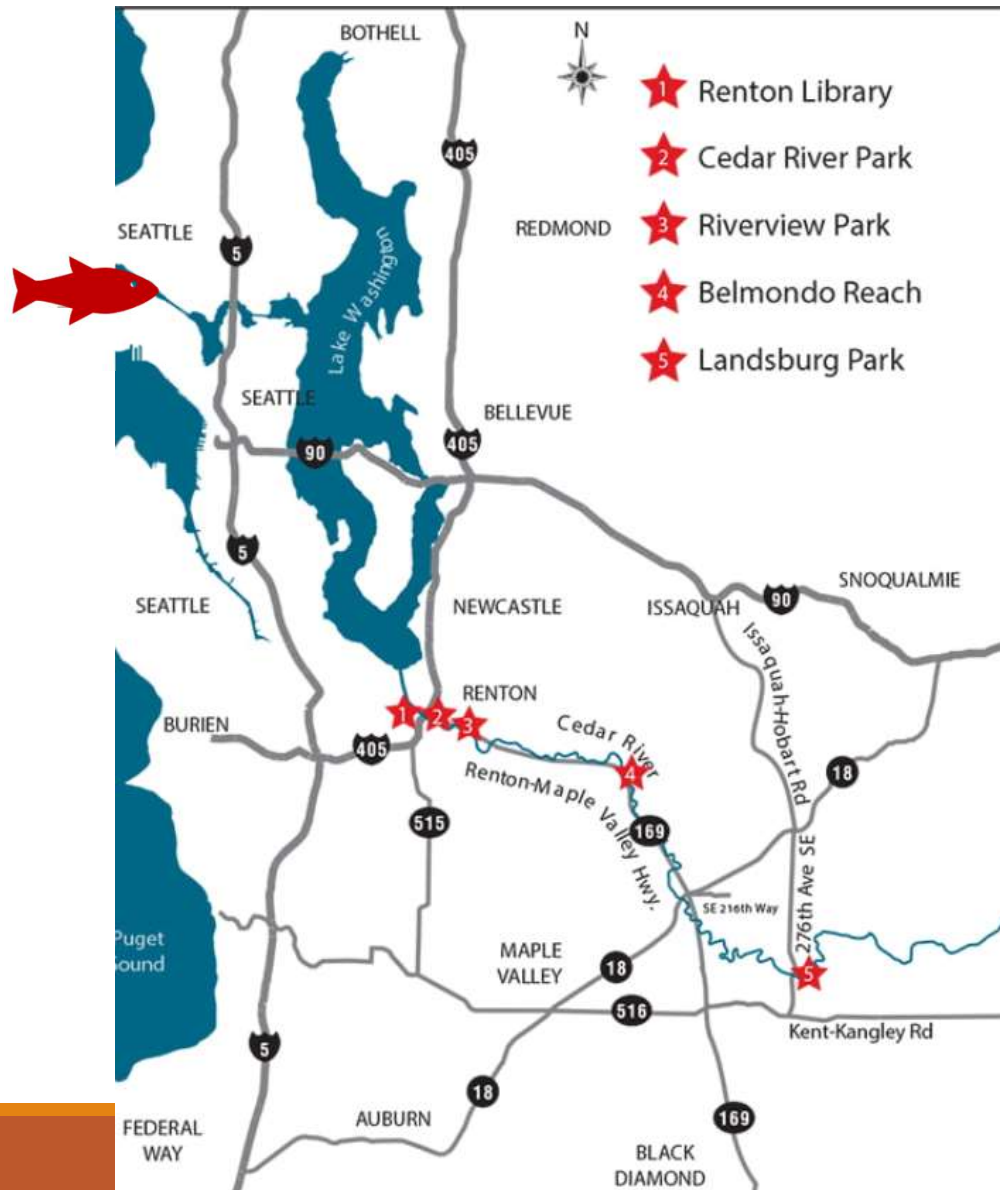













Cedar River Salmon

- Cedar River supplies about 50% of Lake WA's water;
- Cedar River flows from the Cascade Mountains into Lake WA;
- Supports a threatened Chinook run, as well as coho, sockeye, and steelhead trout.





Issues Facing Lake WA Salmon

Declining populations of all species due to:


- Increased runoff and habitat loss due to urbanizations - STORMWATER
- Warmer waters
- Increased predation
- Disease

Salmon Recovery Efforts



- Water levels in the Cedar River are maintained by the City at Landsburg Dam, to support adequate amounts of water for spawning
- Habitat restoration projects to reduce stormwater runoff and restore spawning/resting/feeding grounds for migrating salmon
- Water quality improvements like the Ship Canal Water Quality Project, designed to reduce sewage overflows during heavy rain events

<https://www.seattletimes.com/seattle-news/something-seems-fishy-at-ballard-locks/>



Questions
about Lake
Washington
salmon?

Website – sisseattle.org

Care and Maintenance

Care and Maintenance of the Tank

Salmon in the Schools – Seattle (SIS-Seattle) has been developing and collecting “best care and maintenance practices” since 2012. Find them here: [Care and Maintenance](#). **ALSO – CONSULT THE MAINTENANCE SECTION OF THE HANDBOOK.**

It is difficult to tell when an egg has died. This link to information developed by Columbia Springs might help you.

Difference Between the Tank and Stream

It is helpful to describe how we are trying to replicate the conditions in nature with the tank cycle. Two presentations are available to illustrate the difference between fish growing up in the wild and in our tank: [Nutrient Cycle](#) and [Wild to Tank Comparison](#).

Monitoring Aids

Some teachers have found the following forms useful to have in the classroom or posted by the tank:

[Hatch Estimates](#)
[Monitoring Sheet](#)
[Record the amount of food](#)

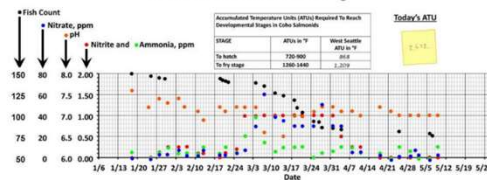
[Large chart to mount near tank](#). Use small adhesive dots for legend and student-placed data. Take file to office supply or copy store to print 32" x 22"

[150 Fish Count](#)

[200 Fish Count](#)

[225 Fish Count](#)

Tank Chemistry



Purchasing Supplies and Equipment

We have created a list of items that would be required to set up the tank for raising your salmon. These are provided as information only. SIS – Seattle does not endorse the products or retailers. [Go to the list.](#)

Chiller Repair

Call either [Dan Hannafous](#) or [Phil Sweetland](#) if you are having problems with your chiller. Financial assistance may be available for schools serving low-income students. We have loaners available while your chiller is being repaired. We are currently using Northwest Aire Services, Inc., 17800 Marine View Drive SW, Normandy Park, WA 98166 at 206-241-2657 or 206-354-7687.

SCHOOLS OUTSIDE OF SEATTLE

- [Outside of Seattle City Limits](#)

SIS-Seattle Teacher Handbook

23-24 Teacher handbook is now available. Click [HERE](#).

EMERGENCY PROCEDURES

- [Power Outage / Chiller Failure](#)

2023 Workshop

NEW We will have a virtual Zoom workshop on October 18th from 6:00 pm – 7:30 pm and an in-person on October 28th at Jefferson Community Center (3801 Beacon Ave S, Seattle) from 10:00 am – 2:00 pm for hands-on training with the technical aspect of raising the fish and planning for curricular connections. Sign up [HERE](#).

2022 Workshop

The virtual workshop was held on Oct 20 and a hands-on workshop on Oct 29. View the October Oct 20 virtual workshop [HERE](#).

What's New

- **NEW** The “Learning Tab” has been updated to provide NGSS (Next Generation Science Standards) for all lesson plans.
- Videos relating salmon to southern resident Orcas
- 2023 Release Field Trip sign-ups.

SIS-Seattle YouTube Channel

- [SIS-Seattle YouTube Channel](#) Set-up and Maintenance videos

Release Form & Field Trips

FALL – Carkeek Salmon Search – Programs October 30 through December 8, 2023

This program is full for fall 2023, but if you'd like to be added to the waitlist, please email Louisep@islandwood.org.

The program includes a salmon dissection, a salmon life cycle game "Hooks and Ladders," and a creek walk to look for salmon.

Registration will be tiered:

1. open to SISS schools with 37% or greater low income from 9/11/23 through 9/17/23.
2. open to remaining SISS public schools from 9/18/23 through 9/24/23.
3. open to all SISS schools on 9/25/23.



WASHINGTON DEPARTMENT OF FISH AND WILDLIFE REQUIRES REPORTING NUMBER OF FRY RELEASED, RELEASE DATE AND RELEASE SITE. The release site should be the site that was permitted, unless permission to change has been given.

Access the release form here: [Salmon in the Schools – Seattle 2023 Release Form](#). For additional information on the form to help improve our program for future students.

SPRING – Salmon Release Field Trips in Lake Washington (coho and chinook) and Carkeek Park (chum).

- 90-minute program at Lake Park or a near-by Lake Washington beach with up to 60 students: the program includes releasing salmon into the lake or imprint ponds and a self/chaperone-directed scavenger hunt through the park.
- 40 minute "assisted release" *without* the scavenger hunt for over 60 students.
- not bringing students on for the release, but want some support? Please reach out to Celina at IslandWood – celinas@islandwood.org.
- Registration will begin in February 2024.

West Seattle schools

- West Seattle schools release in Fauntleroy Park. If a West Seattle school, you have been contacted by Judy Pickens (judy_pickens@msn.com) for release date.

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- Release Form submittal is required.



SALMON IN THE SCHOOLS – SEATTLE

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Reports

The Washington Department of Fish and Wildlife started Salmon in the Classroom in 1991, then dropped it as a budget line item in 2012. A coalition of educators, agency staff members, and environmental advocates formed the Salmon Education Alliance to keep the program going in Seattle/King County. In 2016, representatives of Seattle Public Utilities and the Fauntleroy and Carkeek watersheds chose to focus on administering the program for public and private schools within the City of Seattle. The following annual reports summarize the program since the 2013-14 school year and the transition to Salmon in the Schools –Seattle.

- [2022-23 Annual Report](#)
- [2021-22 Annual Report](#)
- [2019-20 Annual Report](#)
- [2018-19 Annual Report](#)
- [2017-18 Annual Report](#)
- [2016-17 Annual Report](#)
- [2015-16 Annual Report](#)
- [2014-15 Annual Report](#)
- [2013-14 Annual Report](#)

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Background

The Washington Department of Fish and Wildlife (WDFW) started Salmon in the Classroom in 1991 as a staffed line item in its budget. WDFW continued the program through 2012, when budget cuts led to a decision to limit the state's participation to issuing permits.

A coalition of educators, agency staff members, and environmental advocates formed the "Salmon Education Alliance" to administer the program throughout King County and a few schools in adjacent counties, starting with the 2012-13 school year. At that time, the name "Salmon in the Schools" began to encourage tank placement so the entire school could be aware of the annual project. Members of the leadership team represented Seattle Public Utilities, Friends of the Issaquah Salmon Hatchery (FISH), and the Fauntleroy Watershed Council. FISH was fiscal agent for the program and provided administrative services.

Area coordinators throughout the region worked directly with teachers, from securing eggs to assisting with releases in local creeks and Lake Washington. Seattle Public Utilities and Seattle Parks and Recreation funded a technical specialist who, along with a technical volunteer and area coordinators, provided timely troubleshooting of equipment problems and helped new teachers and volunteers gain confidence in managing their tanks.

Toward the end of the 2015-16 school year, two factors led the leadership team to separate program administration geographically: the FISH board decided to scale back its role and the only secure source of operating revenue proved to be annual budgeting for water-quality/stewardship education by Seattle Public Utilities and Federal Way Surface Water Management. Now, "Salmon in the Schools – Seattle" (SIS-Seattle) coordinates the program within the city and other entities do so for clusters of schools elsewhere in the region.

SIS-Seattle's leadership team consists of representatives from Seattle Public Utilities, Fauntleroy Watershed Council, and Carkeek Watershed Community Action Project. We welcome new members who are interested in fostering this well-respected program and helping SIS-Seattle realize more opportunities in support of participating schools. Contact us!

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Interested?

So you're thinking of joining Salmon in the Schools?

Participating in Salmon in the Schools is much more than having fish in your classroom. It requires time, teacher and principal consent, education about salmon, and funds for equipment and supplies. We've compiled this information to aid in your decision.

SIS-Seattle has the following **priorities for adding schools** to the program:

- **Under-resourced schools** (at least 37% low-income).
- **Elementary schools.** The program is primarily geared towards upper-elementary grades and the flexibility of the elementary school day. Middle schools and high schools may join if teachers give us a summary of how they intend to make the most of the program and how they intend to ensure the safe release of fry.

Does your school have funds to purchase new equipment and replace consumable tank supplies? Private schools and schools with less than 37% low-income students are expected to cover at least some, if not all the initial set-up costs (up to \$1,900), as well as the full cost for annual consumable items. We suggest schools' budget up to \$250/year for supplies and the eventual replacement or repair of equipment. SIS-Seattle may be able to help; just tell us about your funding situation. [Look at the list of equipment needed to set up a tank.](#)

If your school would like to participate in Salmon in the Schools – Seattle, read the [SIS Teacher Agreement](#) and review the [SIS Teacher Handbook](#), then [fill out this interest form](#).

Application for permit must be submitted by at least the last week of April so that we can apply to the Washington Dept. of Fish and Wildlife by April 30th.

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[Background](#)
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Contacts

Ry Yahn	Seattle Public Utilities Youth Stormwater Education Program Manager – Seattle Public Utilities	Ry.Yahn@seattle.gov 206-308-4674
Celina Steiger	Islandwood Partnership Manager	celinas@islandwood.org 206-851-2344
Dan Hannafious	General Seattle Area Coordinator (Excluding West Seattle) Area Coordinator & Technical Support/Troubleshooting	spu_seais_tech@seattle.gov 206-713-7704
David Koon	Area Coordinator – Northwest Schools Area Coordinator & Technical Support/Troubleshooting	salmonprograms@carkeekwatershed.org 206-819-0614
Judy Pickens	Area Coordinator – West Seattle Schools Area Coordinator	Judy.Pickens@msn.com 206-938-4203
Phil Sweetland	Technical Support – West Seattle Technical Support/Troubleshooting	Phil_Sweetland@msn.com 206-938-4203

Participating Hatcheries

- Issaquah Salmon Hatchery: 125 W Sunset Way, Issaquah – 425-391-9094
- Soos Creek Hatchery: 13030 Auburn-Black Diamond Road, Auburn – 253-931-3950
- Grovers Creek Salmon Hatchery: 23175 Indianola Road NE, Poulsbo – 360-598-3142

USEFUL LINKS

- Fauntleroy Watershed Council
- Carkeek Watershed Community Action Project


SCHOOLS OUTSIDE OF SEATTLE

- [Outside of Seattle City Limits](#)



SIS-Seattle Teacher Handbook

23-24 Teacher handbook is now available. Click [HERE](#).

EMERGENCY PROCEDURES

-  [Power Outage / Chiller Failure](#)


2023 Workshop

  We will have a virtual Zoom workshop on October 18th from 6:00 pm – 7:30 pm and an in-person on October 28th at Jefferson Community Center (3801 Beacon Ave S, Seattle) from 10:00 am – 2:00 pm for hands-on training with the technical aspect of raising the fish and planning for curricular connections. Sign up [HERE](#).

2022 Workshop

The virtual workshop was held on Oct 20 and a hands-on workshop on Oct 29. View the October Oct 20 virtual workshop [HERE](#).

What's New

-  The "Learning Tab" has been updated to provide NGSS (Next Generation Science Standards) for all lesson plans.
- Videos relating salmon to southern resident Orcas
- 2023 Release Field Trip sign-ups.

SIS-Seattle YouTube Channel

This is our administration tab

OUR BASIC 'ASK' OF TEACHERS

Orienting



Observing



Sharing



Exploring



Other opportunities for action and learning:



Storm Drain Stenciling through SPU (spring)



IslandWood Field Trips in Seattle – Carkeek fall salmon, Creekosystem Field Study (spring), Salmon release (spring)



Nature Vision or Mountains to Sound Field Trips

Questions?

Tanks and set up? Covered Saturday Oct 28!

Who do you go to with questions and for help? Your Area Coordinator!

QUICK survey (please do this if you want clock hours):

<https://forms.office.com/r/BWqxSUx5Lk>

