

## USES OF SK DATA

APPROXIMATE DATE(S)	USER	DATA	USE
Ongoing since 1999	Clallam County departments of Community Development and Health and Human Services; Washington Dept. of Fish and Wildlife; Jamestown S'Klallam, Lower Elwha, and Quileute Tribes; US Forest Service Clallam Conservation District; Cities of Port Angeles, Sequim, and Forks; Arthur Feiro Marine Life Center, Olympic Natural Resources Center; Streamkeeper volunteers; interested landowners	Fecal coliform data	Tracking pollution sources
Ongoing since 1999	SK Advisors (incl. numerous agencies) and Volunteers	Benthic Index of Biological Integrity data (B-IBI)	Assessment of overall ecosystem health
Ongoing since 2015	Clallam County Clean Water Work Group and other parties interested in water quality in the Clean Water District	Sequim-Dungeness Clean Water District Pollution Identification & Correction Trends Monitoring data	Trends analysis; red flags; priority-setting for pollution correction
1/2/19	Lucio Baack, City of Port Angeles	Bacterial data from sampling on 12/7 & 12/11/18	Investigation of Separate Sewer Overflow west of Tumwater Creek
12/12/18	Jamye Wisecup, Emergency Operations Manager, Clallam County Sheriff's Dept.	Bacterial pollution graphs on stream sites within an hour's walking distance from downtown Port Angeles	Help advise emergency-operations instructions
12/3/18	John Pearch' Hydrogeologist and Well Construction Coordinator. Southwest Regional Office - Water Resources Program, WA Department of Ecology	Flow & stage data on selected creeks in the Sequim area	Aquifer recharge project
9/28/18	Clallam County Departments of Community Development and Roads	Further evaluation of data with regard to possible impacts of the County's MS4 within the City of Port Angeles's Urban Grown Area (UGA).	Response to WA Dept. of Ecology's letter of intent to include Clallam County in the City of Port Angeles's Municipal Separate Storm Sewer System (MS4) Phase II permit,
9/15/18	Dungeness River Management Team	Flow data on Bagley, Siebert, McDonald, Matriotti, Meadowbrook, Cassalery, Gierin, & Bell Creeks, during irrigation season, Apr 15 – Sep 15, from 2013 to	For the Dungeness off-channel reservoir proposal team, for their flow model, being developed in conjunction with the Washington Water Trust.

		present.	
6/7/18	Clallam County Departments of Community Development and Roads	Evaluate data with regard to possible impacts of the County's MS4 within the City of Port Angeles's Urban Grown Area (UGA).	Response to WA Dept. of Ecology's evaluation of whether to include Clallam County in the City of Port Angeles's Municipal Separate Storm Sewer System (MS4) Phase II permit,
7/6/17	Trevor Swanson, Shellfish Programs, WA Dept. of Health	Fecal coliform data from Bell and Johnson Creeks	Potential upgrade in shellfish classification around the mouths of those creeks
July 2017	Puget Sound Stream Benthos website	Benthic Index of Biological Integrity data (B-IBI) from 1997-2016	Regional assessment of watershed health, used by Puget Sound Partnership & WA Dept. of Ecology for the WA State Water Quality (303d/305b) Report
3/30/17	Marcy Golde, Olympic Forest Coalition	WRIA 19 Stormwater Sediment Project data (2010-2014, funded by OFCO)	Forest stewardship and communication with WA DNR and USFWS.
11/7/16	Cathy Lucero, Clallam County Noxious Weed Control Board	Pesticide data from streams and stream sediment	Assessment of impacts from pesticide application for noxious weed control
11/3/16	Ann Soule, Water Resource Specialist, City of Sequim	Sequim-Area Surface Flow Monitoring Project data (2014-2015)	Stormwater management plan for the City of Sequim
Fall 2016	WA Dept. of Ecology	19,194 data records from 11 projects, from 5/1/11-12/31/15; plus turbidity and suspended sediment concentration studies showing where state standards had been exceeded	WA State Water Quality (303d/305b) Report
5/28/15	Amy Georgeson, WA Dept. of Health	Dungeness Watershed data (primarily fecal coliform)	Tracking trends in pollution levels for evaluation of shellfish closure areas
12/22/14	Herrera Environmental Consultants, for City of Sequim	Stormwater project data from 2008-11	Sequim-area flow study
11/13/14	North Olympic Peninsula Skills Center	All Results_Analytic data from new DB	Data studies
11/5/14	Streamkeepers monitoring program revision project planning team (under Ecology WRIA 18 watershed planning implementation grant)	Flow and stage data from streams in current Streamkeepers quarterly monitoring plan	Correlation study to examine the possibility of modeling flows at Streamkeepers sampling sites rather than measuring simultaneously with water quality sampling
9/30/14	Clallam County Clean Water Work Group and WA Dept. of Ecology	Clean Water District 2013-14 project data	Monitoring report and data upload to Ecology's EIM database
9/21/14	Lori DeLorm and Shawn Hines, Jamestown S'Klallam Tribe	Fecal coliform data in the Sequim area	Educational display for Dungeness River Festival
8/31/14	Joe Holtrop and Jennifer Bond, Clallam Conservation District	Water quality and flow data from 15 most recent samples at lowest sites on streams in the Clean Water District	Sequim-Dungeness Clean Water District Pollution Identification & Correction Plan

3/13/14	Siana Wong and Paul Pickett, WA Dept. of Ecology	Bacterial data in Marine Recovery Area, 2010-14	Case study to showcase successes in identifying, monitoring, and cleaning up nonpoint pollution
6/4/13	Kassandra Grimm, student, Huxley College, Western Washington Univ.	Jimmycomelately Creek B-IBI data	Assessment of restoration project effectiveness
5/29/13	U.S. Army Corps of Engineers (via Hannah Merrill)	Road culvert inventory	Lower Dungeness River Floodplain Restoration / Levee Setback Project
3/12/13	Angel Shaw, student, North Olympic Peninsula Skills Center	Valley 2.2 physical-habitat data	Update & trends analysis
2/6/13	Neil Harrington, Water Quality Planner, Jamestown S'Klallam Tribe	All data on Johnson & Bell Creeks	Water Quality Plan for Sequim Bay
6/4/12	Jack Janisch, Environmental Assessment Program, WA Dept. of Ecology	Peabody Creek data	Stressor Identification study pursuant to 303(d) bioassessment listing
5/31/12	Glorilyn Maw, MP Stormwater Engineering LLC (sub consultant to Exeltech Consulting)	Peabody Creek flow data in the vicinity of Lauridsen Blvd	Bridge design/environmental compliance for new Lauridsen Blvd bridge over Peabody Creek
5/29/12	Joe Holtrop, Manager, Clallam Conservation District	Countywide water-quality data and trends	Update of long-range plan
3/31/12	Mike Haggerty, consultant for North Olympic Salmon Coalition	Morse 1.6a B-IBI data from 2010	Two-year monitoring report on the Morse restoration project
3/2/12	Jamestown S'Klallam Tribe, Lori DeLorm	Clean Water District project data	TMDL implementation
2/29/12	Quileute Tribe, Nicole Rasmussen	WRIA 20 data	Sampling plan development
12/14/11	Port Angeles Business Association, Water Committee, Harry Bell	Physical Habitat data and Physical Habitat Index	Evaluation for appropriateness for No Net Loss provisions under Clallam County's Shoreline Master Program revision
11/23/11	WA Dept. of Ecology, Paul Pickett	Flow data	Review of Ecology's gage sites in Clallam County and review of data on streams with proposed regulatory flow controls
11/9/11	WA Dept. of Ecology	Map of B-IBI and WQI scores thru 2010	Evaluation of Port Angeles UGA for possible inclusion in NPDES Municipal Stormwater Phase II permit
11/2/11	Rebecca Dugopolski, P.E. Herrera Environmental Consultants	Fecal coliform data in Port Angeles area	Fecal coliform data analysis for City of Port Angeles
6/14/11	Clallam County Dept. of Community Development	Data analysis for Lees, Ennis, and Dry Creeks	Reply letter to WA Dept. of Ecology re: inclusion of Port Angeles UGA in the next round of NPDES Phase II permitting

April 2011	Clallam County Dept. of Community Development, consultant team	Stream health indexes: Benthic Index of Biological Integrity data (B-IBI) & Clallam County Water Quality Index (WQI)	Shoreline Inventory and Characterization Report for WRIAs 17-19, for Shoreline Master Program update
3/15/11	Homeschoolers Ari & Elizabeth Athair	Maps of Valley Creek	School project
2/22/11	Kevin Long, North Olympic Salmon Coalition	Salt Creek data	Restoration grant
11/12/10	Pacific Groundwater Group, Seattle	Historic data associated with Bell Creek	Studies for the Water Reuse Demonstration Site in Sequim
Oct 2010	National Park Service, U.S. Dept. of the Interior	Valley Creek data	Port Angeles Stormwater Separation Project Environmental Assessment
8/19/10	Kristi Geris, WSU graduate student	Data on Sequim Bay, Chicken Coop, Dean, JimmyComeLately, Johnson and Bell Creeks	Follow-up evaluation of 1989 Sequim Bay Watershed Management Plan
2/3/10	ONP - Pat Crain	SK benthic records for ONP reaches of Peabody, Barnes, Hughes, & Mink Lakes	To be reanalyzed and compared to North Cascades NP (west slopes) benthic data.
11/24/09	WSDOT – Peter Rinaldo, Jr, environmental technical advisor	Data from creeks between US 101 Shore Road to Kitchen Dick Road	Road widening review.
Nov 09	Carol Creasey	Peabody Creek fecal coliform	Proposal for LID rebuild of Courthouse parking lot
11/01/09	Feiro Marine Center -	Peabody data – bacteria, fecal coliform, invertebrates.	Education program re Peabody Creek for 5 <sup>th</sup> graders, at Feiro Marine Center Center.
10/26/09	Elizabeth Maier – CCEHS	Lake water quality data	Invasive Species Tracking Project
5/26/09	Glenn Merritt – ECY	Flow data for potential sites	Status and trends monitoring project
5/26/09	Heather Delplain – Soroptimist Jet Set	Valley Creek data	Water quality and fish counts to determine if restoration efforts might be promising.
5/7/09	Jenee Colton	BMI data	King County DNR & Parks
4/29/09	Carol Creasey, CCDCD	Matriotti Creek data	For restoration project on Matriotti Creek, Carlsborg UGA comp plan.
4/28/09	J. Rene Ewbank	Ennis Creek data	To lobby county equalization board to prevent development of specific reach
4/3/09	Clallam Conservation District – Meghan	Peak flow for Matriotti Creek	Clallam Conservation District
4/2/09	Brad Stone, PC student	General information on stream health particularly stress indicators among invertebrates and frogs.	Class assignment on mayflies as stream indicators
Dec. 08	City of PA – Kathy Neal, Civil Engineer	Records on fecal coliform on streams within City of PA.	Development of City of PA ordinance to find, trace and eliminate sources of illicit discharges.
12/10/08	Morse Creek Restoration Project –	Morse Creek Physical Habitat data,	Report to NOSC in support of Morse Creek

	Jennifer Goldsmith, Engineer	especially pools and riffles, canopy, crosssection, etc.	restoration project - meander project
12/12/08	Dana Houka	Salmon resources in PA harbor	Cleanup/restoration planning - Rayonier Mill Site Study
12/10/08	Morse Creek Restoration Project – Jennifer Goldsmith, Engineer	Morse Creek physical habitat data, especially pools, riffles, canopy, crosssection, etc.	Report to NOSC in support of Morse Creek Restoration Project re meander project.
12/1/08	Malcolm Pirney, Seattle	Rayonier Mill site	Rayonier Mill Site Study
10/16/08	DOE Environmental Program –Chad Brown	Cassalery grab sample data –Jan 07 to Oct 08	Lower Dungeness TMDL effectiveness study considering addition of Cassalery Creek to study area.
10/07/08	Dan Lieberman	Dungeness turbidity data.	NOP Skills Center class project.
10/07/08	North Olympic Land Trust (NOLT)	Elk Data	NOLT assessments.
09/23/08	Seasons Engineering, Inc –John E. Patch, Civil Engineering	Streamflow data on Bagley Creek.	Hydrology analysis for a landowner on Bagley Creek.
09/12/08	Clallam Conservation District – Gary Dougherty	Flow monitoring on Bagley Creek.	Clallam County conservation assessment and planning.
03/07/08	Melanie Roed, student, Huxley College	Ennis Creek – water quality, focus on stormwater.	Student project for a water quality class.
2/13/08	Colin Phifer, OESF Database Coordinator, DNR	Research and monitoring reports, particularly wild life data on WRIA 19, 20, and 21.	To create searchable database relevant to the Experimental Forest and the Olympic Peninsula ecosystem.
02/20/08	Zack Hovis – PA High School	Data on dissolved oxygen, bug tallies, water temp, flow – Fall 2007	Student assignment
02/04/08	Rebecca Paradis –Huxley College student	Data on Pysht River	QAPP management paper on Pysht River
01/31/08	ONP – Pat Crain, Jerry Freilich	Site photos; reach definition site sketches, Excel file for all sites with ONP	ONP assessment of creeks within ONP
01/10/08	Green Crow – Bruce Emery	Dry Creek data	Remodeling of Green Crow mill at Eclipse Industrial Park
01/10/08	ONP – Pat Crain	Impairments of sites within ONP, especially Siebert WF 2.3	ONP assessment of creeks within ONP
12/31/07	WA Dept of Health, Office of Shellfish and Water Protection	Sequim Bay fecal data. (not available)	State assessment of local shellfish and water conditions.
11/06/07	Dan Lieberman – Lincoln HS, ultimately City of Port Angeles	Ennis Creek data	Class project re: public comment on Rayonier Mill site.
10/25/07	WRIA 18 – West		Data Review
08/01/07	Pacific Groundwater Group (Seattle) – Peter Schwartzman	Flow data for creeks east of Port Angeles: Morse, Bagley, Siebert etc, to	Update Dept. of Ecology groundwater flow model in order to develop better calibration

		Johnson .	targets for the model.
6/27/07	ESA-Adolfson (Seattle) for City of Port Angeles	Proposed B-BIBI calls for 2006	To delineate wetlands along Ennis at Rayonier site
6/21/07	Trust for Public Lands—Elizabeth Butler	Fish sightings on Siebert Creek	To justify grant
6/7/07	Huxley College, PA, junior--Hillary Eichler	Valley Creek data	For Stream Ecology class
5/11/07	Sequim high school student—Marley Iredale, 14 yrs. old	Water Quality data	High school science project
4/10/07	Huxley Program seniors—Michelle Surette and Lara Kawal	Valley Creek data	For Stream Ecology class
2/23/07	Jack Ganzhorn, Peninsula College	Indian Creek data	Use in PC Fisheries Program classes
2/22/07	Brad Caldwell, DOE	Flow data for Jimmycomelately, Johnson, Bell, Cassalery, and Bagley Cr.	Set Instream flow rule for these creeks
11/20/06	Kurt Fresh, NOAA	Salinity, Straits near Twin Rivers	
11/7/06	DOE Water Quality Section	B-IBI, fecal, DO, temp, pH, turb, flow	State Water Quality Assessment
6/15/06	Jim Cutillo & Shea McDonald, students in Natural Resources Center of Excellence, Peninsula College	B-IBI data on Morse Creek	Class project
3/14/06	Peter Schwartzman, Pacific Groundwater Group, on behalf of DOE	Flow data on Bell, Cassalery, Johnson	Water right application review
2/22/06	Michelle Surette, David Kirner, Sasha Arora, students at Huxley College, Western Washington University	Data on Peabody, Johnson, Bell Creeks	Class project
October 2005	Clallam County & Jamestown S'Klallam Tribe	Kinkade Island (Dungeness) floodplain	Assessing flood restoration effectiveness
08/10/05	Brad Caldwell, DOE	Flow Data for WRIA 18 and 19 streams	Set Instream flow rule for these creeks
08/03/05	City of Sequim & Frank Needham, WestTech	East end of town, looking at streams, ditches, wetlands	Assessing wetlands and their relationship to streams & each other. Retyping wetlands.
06/27/05	Jim Dougherty, Gray & Osborne	Bell Creek flow data	City of Sequim road relocation
6/8/05	Pat Coogan, Huxley College Student	Morse Creek water chemistry	Stream Ecology class report
5/26/05	Brad Caldwell, DOE	Flow Data on Johnson, Dean & Chicken Coop creeks	Re: Instream Flow rule for these creeks, Pending new water rights
May 2005	Jamestown S'Klallam Tribe ,D. Shreffler	B-IBI data for JCL creek	JCL Creek Restoration Project
4/28/05	Clay Keown, DOE Water Quality	SK-Suite & SK-Fecal for JCL	DOE data archiving for JCL Creek & Estuary Restoration, April 2000-Dec 2003
4/28/05	Clay Keown, DOE Water Quality	SK-Suite, SK-Fecal, EMMT data from Cassalery & Bell Creeks	DOE data archiving for Dungeness Watershed Farm Pollution Cleanup

			Implementation Nov 1997-Dec 2001
4/28/05	Clay Keown, DOE Water Quality	SK-Suite, SK Fecal	DOE data archiving for State of the Waters report, 7/10/00-6/30/04
4/28/05	Clay Keown, DOE Water Quality	SK-Suite & SK-Fecal from State of the Waters; EMMT flow data	DOE data archiving for WRIA 18 Water Quality & Planning project
4/22/05	Dave Nazy, DOE	Cassalery flow data	Evaluate application to change a water right near Cassalery Creek
3/23/05	April Magrane, Tetra Tech	Water chemistry & flow data	WRIA 19 Watershed Plan
2/14/05	Terra Hegy, WA Dept of Fish and Wildlife	Flow data, fish periodicity for Elk, Bear, Lake Calawah, Sol Duc; Umbrella, Big Cr	WRIA 20 & BOR study
2005	Val Streeter, Clallam County Environmental Health Division	Fecal & flow data in lower Dungeness area irrigation ditches	TMDL
11/16/04	North Olympic Salmon Coalition	SK data	Salt Creek Watershed: An Assessment of Habitat Conditions, Fish Populations and Opportunities for Restoration
8/19/04	Thomas Perry & Amy Lieb, US Bureau of Reclamation	SK flow data Cassalery, Bell	BOR Study
June 2004	Clallam County	Water quality and B-IBI data	State of the Waters report
6/2/04	Cynthia Nelson, WA Dept of Ecology	SK (inclu+6ding 8-Streams) flow data	WRIA 18
5/7/04	US Fish & Wildlife Clallam Conservation District	SK data	Siebert Creek Watershed Assessment and Prioritization of Restoration, Protection, and Education Opportunities
March 2004	R2 Consultants, Inc.	Sequim-Dungeness data	Comprehensive Irrigation Dist. Mgmt. Plan
2/24/04	Jody Beall, WSDOT	All data for Bell Creek site restoration site	WSDOT Wetland Assessment and Monitoring Program
2/18/04	Mike McHenry, Lower Elwha S'Klallam Tribe	Flow (including low flow), B-IBI, Water Quality data	Salt Creek Watershed Assessment, Opportunities for Restoration
2004	Watershed planning groups for WRIAs 18-20	All data	Reports under the State Watershed Planning Act
11/10/03	Stephanie Weed, Forks HS junior	Water Quality data for Lake Creek	Effects on Lake Creek from the Lake Creek Landfill
2003	North Olympic Land Trust	Lake Creek data	To explore conservation easement possibilities around Lake Pleasant
2003	Lower Elwha S'Klallam Tribe	Deep Creek and E & W Twin River data	Restoration work on Deep Creek and South Fork Pysht River
2003	Battelle Northwest Labs	Water Quality (especially B-IBI) data	Stormwater sediment study for Clallam County
2003	Pacific Woodrush	Siebert Creek data	Siebert Creek protection grants
2003	Tom Perry & Amy Lieb, US Bureau of	Flow data	Calculation of water budget models for

	Reclamation		WRIA 18 in 2002 & WRIA 19 & 20 in 2003
October 2003	Interagency Cmte. for Outdoor Rec. Washington State	Information about Clallam County Water Resources database	Statewide survey of environmental monitoring programs & databases
2002-2003-2004	State Dept. of Ecology	Water quality, fecal, and BIBI data	Report for impaired water body listings under the Clean Water Act
4/17/03	Ronald F. Campbell, Sr. Fisheries Biologist, R2 Resource Consultants Inc.	Flow, water chemistry, physical habitat, macroinvertebrate, fish/wildlife data	Salmon Recovery Planning
4/11/03	Peter Schwartzman, Pacific Groundwater Group	Flow, water chemistry for Morse Creek and the Elwha	Aquifer storage and recovery assessment
3/16/03	John Cambalik, Puget Sound Action Team	Fecal, temperature, turbidity, B-IBI data for Bell Creek	Presentation on stormwater and LID to City of Sequim Commercial Design Standards Committee
1/15/03	Dave Christensen, Jefferson County Natural Resources Division	Flow data on Jimmycomelately	For consultant doing study for WRIA 17 watershed council
10/16/02	Patricia Weston, Foster Wheeler Environmental Corporation	Data in Sequim-Dungeness area	EIS for Sequim/Dungeness Agricultural Water Users Association's Comprehensive Irrigation District Management Plan
Fall 2002	U.S. BOR	West End low flow data	Record effects of historic drought
Fall 2002	Becky Dickson, Elk Creek acquisition project, funded through the North Olympic Peninsula Lead Entity (State Salmon Recovery Funding Board)	Commitment to gather data	Part of project application
Fall 2002	Jimmycomelately restoration project, funded by multiple sources	Commitment to gather data	Part of project applications
Summer 2002	Brad Shea, Westech Environmental	Water chem, fecal, B-IBI data countywide	Data analysis for Clallam County State of the Waters report
Summer 2002	Pacific Groundwater Group	Flow data from Sequim area	Hydrologic report for City of Sequim dealing with water-quality and water-supply issues
Summer 2002	Quadra Engineering	Water chem, fecal data on Bell & Johnson Creeks	TMDL study for City of Sequim
Summer 2002	Ginna Correa, Wa. Dept. of Fish & Wildlife	Data on JCL & Johnson Creeks	State Conservation Commission Limiting Factors Analysis for WRIA 17
Summer 2002	Wa. Dept. of Fish & Wildlife	Morse Creek water-quality data	Proposed Elwha River chinook salmon acclimation pond, part of Elwha restoration
2000-2002	Clallam County Conservation District	Flow and fecal data on irrigation ditches	Ditch assessment, pipe lining project
9/6/2000	City of Sequim, Karen Kuznek	Water Quality, Flow, and B-IBI data on	Bell Creek stormwater plan development

		Bell Creek	
1999-2001	WA State Conservation Commision	Physical habitat, water quality, water quantity data	Salmon and Steelhead Habitat Limiting Factors reports- WRIAs 17-20

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