Sampling and Analysis Plan

Pesticide Stewardship Partnership – Surface Waters

DEQ11-LAB-0003-SAP
Version 4.0

November 2025

State of Oregon
DEQ Department of Environmental Quality

This document was prepared by
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Sara Krepps Date: _____
Sara Krepps, Laboratory Quality Assurance Officer

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1. Project Management

1.1. Distribution List

The following personnel will be emailed regarding all aspects of this sampling and analysis plan (SAP). Deviations from this SAP must be communicated in writing (e-mail is acceptable) to all individuals identified in Table 1. Final reports from the DEQ Laboratory will be emailed and mailed to the project manager and field operations coordinator/data manager.

Table 1 Distribution List

Name	Phone	Email
David Gruen	503-719-2282	David.gruen@deq.oregon.gov
Allen Hamel	503-887-8141	Allen.hamel@deq.oregon.gov
Jeremy Unrau	503-887-9346	Jeremy.unrau@deq.oregon.gov
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Sarah Rockwell	503.693.5775	Sarah.rockwell@deq.oregon.gov

To track the time and expenses spent on this project DEQ personnel must use the:

Q-Time number 43489 for analytical work and field operations.

1.2. Problem Definition/Background

Since 1999, the ODEQ has been using a voluntary, collaborative approach called Pesticide Stewardship Partnerships (PSPs) to identify problems and improve water quality associated with pesticide use at the local level. This document consolidates the non-Hood basins and Hood basin into a single SAP. This SAP is for the continued sample collection and analysis for the Walla Walla, Wasco, Hood, Amazon, Yamhill, Clackamas, Middle Deschutes, Middle Rogue and Pudding basins.

1.3. Project/Task Description

Water samples will be collected from the active stations, beginning approximately in March on a weekly / biweekly basis depending on basin and resources. These samples will be analyzed for all parameters listed in the Quality Assurance Project Plan (DEQ05-LAB-0022-QAPP) including insecticides, fungicides, herbicides and total solids (TS).

Sampling Organizations:		**Active Stations**	**Inactive Stations (see Appendix A)**
Upper Willamette Basin – Long Tom – Amazon Creek		Site Table 2a	Site Table A1
Sampling Organization:	Long Tom Watershed Council Amanda Reinholtz 751 S. Danebo Avenue Eugene, OR 97402 Phone: 541-338-7055 amanda@longtom.org www.longtom.org		
Clackamas Basin		Site Table 2b	Site Table A2
Sampling Organization:	Mary Logalbo Clackamas River Basin Council PO Box 1869 Clackamas, OR 97015 Phone: 503-303-4372 x100 Info@clackamasriver.org www.clackamasriver.org SHIP supplies to: 5427 Glen Echo Avenue Gladstone, OR 97027		
Middle Columbia - Hood Basin		Site Table 2c	Site Table A3
Sampling Organization:	Kris Schaedel Hood SWCD Hood River Soil & Water Conservation District 3007 Experiment Station Road Hood River, OR 97031 Phone: 541-386-6063 kris@hoodriverswcd.org		
Deschutes Basin – Middle		Site Table 2d	Site Table A4
Sampling Organization:	Jefferson County SWCD Ellen Hammond 625 SE Salmon Avenue Suite 6 Redmond, OR 97756 Phone: 541-923-4358 x128 ellen.hammond@jeffswcd.org		

Middle Rogue Basin		Site Table 2e	Site Table A5
Sampling Organization:	Jackson County SWCD Kora Mousseaux 89 Alder Street Central Point, OR 97502 Phone: 541-664-1070 x420 Kora.mousseaux@jswcd.org		
Pudding Sub- Basin		Site Table 2f	Site Table A6
Sampling Organization:	Pudding River Watershed Council Kurt Berning 190 Garfield Street Woodburn, OR 97071 Phone: 503-475-2871 kurt@puddingriver.org		
Walla Walla Basin		Site Table 2g	Site Table A7
Sampling Organization:	Walla Walla Basin Watershed Council Luke Adams P.O. Box 68 Milton Freewater, OR 97862 Phone: 541-938-2170 luke.adams@wwbwc.org info@wwbwc.org		
Mid Columbia Basin – Wasco		Site Table 2h	Site Table A8
Sampling Organization:	Wasco County SWCD Karen Lamson 2325 River Road, Suite 3 The Dalles, OR 97058 Phone: 541-296-6178 x 119 karen.lamson@or.nacnet.net		

Yamhill Basin		Site Table 2i	Site Table A9
Sampling Organization*:	Yamhill SWCD Jordan Anderson Conservation Technician 2200 SW 2nd Street Suite C McMinnville, OR 97218 Phone: 503-437-5747 jordan@yamhillswcd.org		
South Umpqua Basin	INACTIVE		Site Table A10
Sampling Organization:	Partnership for the Umpqua Rivers Sandy Lyon or Joe Carnes 1758 NE Airport Road Roseburg, OR 97479 Phone: 541-673-5756 x 149 sandy@umpquarivers.org joe@umpquarivers.org		
Upper South Yamhill Basin	INACTIVE		Site Table A11
Sampling Organization:	Confederated Tribes of Grande Ronde Nathan Breece 41070 SW Hebo Road Grand Ronde, OR 97347 Phone: 503-879-2396 Nathan.Breece@grandronde.org		
South Coast Basin – North	INACTIVE		Site Table A12
Sampling Organization:	Coos County SWCD Caley Sowers 371 N Adams Street Redmond, OR 97756 Phone: 541-923-4358 x128 info@coosswcd.org		

South Coast Basin – South	INACTIVE	Site Table A13

Sampling Organization:
Curry County SWCD
Erin Minster
29692 Ellensburg Avenue
Gold Beach, OR 97444
Phone: 541-247-2755 x3#
erin.minster@currywatersheds.org

Analytical Organization:
Oregon DEQ Laboratory and Environmental Assessment Program
7202 NE Evergreen Parkway
Suite 150
Hillsboro, Oregon 97124
Phone: 503-693-5700
Contact: Sara Krepps

The general period for the project is as follows:

As this project relies on the weather to determine the start of the sampling period, this period is determined with input from ODA and farmers on the expected start time for pesticide applications, this may vary year to year. The number of sampling events is estimated at the beginning of the season. The actual number will depend upon funding and laboratory capacity.

1.4. Quality Objectives and Criteria

Samples will be collected, analyzed, and reported following the QAPP for the Pesticide Stewardship Partnership (DEQ05-LAB-0022-QAPP) that is in effect during the time of the work.

Samples will be analyzed and reported following standard DEQ Laboratory and Environmental Assessment Division (LEAD) procedures. The laboratory's default analytical QA/QC procedures and criteria will be followed.

1.5. Documentation and Records

Samples collected from the field will be returned to the analytical laboratory with the current "Chain of Custody" form. The LEAD will maintain analytical records as prescribed by DEQ00-LAB-0004-SOP *Peer Review & Record Management*. Quality Systems documents will be maintained as described in DEQ02-LAB-0004-SOP *Document Control*.

Samples collected from the field will be returned to the analytical laboratory with the attached "*Chain of Custody*" form. Policies and procedures for the maintenance of LEAD analytical records are described in the LEAD Quality Manual (DEQ91-LAB-0006-LQM). Final analytical reports generated by the DEQ laboratory will follow standard laboratory practices. Electronic versions of the reports will be e-mailed to the project manager in a portable document format

(pdf). An original electronic copy of the report with the supporting QC documentation will be kept on file at the DEQ laboratory. Copies of the report will be available upon request.

2. Data Generation and Acquisition

2.1. Sampling

DEQ LEAD will manage sampling design and collection and analysis methods and handling procedures. The sampling organizations will ensure that all samples will be collected in the appropriate sample containers, preserved as identified in the appropriate reference methods, and transported to the analytical organization within the appropriate sample holding times, with the appropriate documentation, and under the appropriate sample transport conditions. The analytical laboratory assumes no responsibility for the quality of data resulting from samples that were collected, shipped, or stored under inappropriate conditions.

The locations and media to be sampled are summarized in the following tables:

Table 2a-i Sampling Site Tables

Table 2a Amazon Sampling Sites

STATION No.*	Upper Willamette Basin - Long Tom Tributary - Amazon Creek Active Site Names*	Latitude	Longitude
36389	Amazon Creek at Beltline Avenue	44.0497	-123.1731
36390	Amazon Creek at Bond Road	44.1233	-123.2360
36391	A1 Channel at Awbrey Lane	44.1278	-123.1907
42041	Amazon Creek at Meadow View RD	45.1500	-123.2404
25270	Amazon Creek at High Pass Road	44.2153	-123.2506

*Additional phenoxy and Glyphosate sampling at 36391 A1 Channel and one additional site chosen by WSC at time the sampling.

Table 2b Clackamas Sampling Sites

STATION No.*	Clackamas Basin Active Site Names*	Latitude	Longitude
30437	Clear Creek at mouth	45.3927	-122.4950
32066	Sieben Creek at Hwy 212	45.4102	-122.5221
40191	Rock Creek US Trillium Creek DS Hwy 212	45.4090	-122.5075
40370	Depp Cr NF at mouth	45.3937	-122.4110

*Additional phenoxy and Glyphosate sampling at 40370 Deep Cr NF at mouth.

Table 2c Hood Sampling Sites

STATION No.*	Hood Basin Active Site Names*	Latitude	Longitude
11972	Lenz Creek at Mouth (Van Koten Property)	45.6438	-121.5152
13141	Neal Creek at Mouth	45.6637	-121.5246
13249	Odell Creek upstream of Odell WTPP outfall	45.6424	-121.5425

41578	Indian Creek close to mouth	45.6182	-121.5231

*Additional phenoxy and Glyphosate sampling at 13249 Odell Creek.

Table 2d Mid-Deschutes Sampling Sites

STATION No.*	Deschutes Basin - Middle Active Site Names*	Latitude	Longitude
35226	Campbell Creek at Hwy. 26	44.7182	-121.1734
37635	Campbell Creek at Mouth (below Pelton Dam Rd)	44.7137	-121.2279
35227	Rattlesnake Canyon inflow at mouth	44.7452	-121.1984
41987	NUID Lateral 60 at weir by Main Canal	44.6936	-121.1265
41988	NUID Lateral 59-3 at weir	44.7009	-121.1537
41989	NJUID 59 drain above SS Ponds	44.7153	-121.1636
41990	NUID 59 drain at Boise / Fir	44.7081	-121.1537

*Additional phenoxy, Glyphosate and Total Suspended Solids sampling at all sites.

Table 2e Mid-Rogue Sampling Sites

STATION No.*	Middle Rogue Basin Active Site Names*	Latitude	Longitude
38280	Jackson Creek at Bramson Lane	42.3820	-122.9345
36641	Lone Pine Creek D/S pf Thrasher Road Medford LPS	42.3426	-122.8296
41005	Lone Pine Creek between Biddle and Terminal Spur Rds. near Lawnsdale Rd	42.3648	-122.8735
	Middle Rogue Basin Recon Site Names		
41216	Unnamed Trib (1228896423703) to Lone Pine CK Metal Plate Blitz Point	42.3437	-122.8550
41813	Lone Pine Creek at wetland	42.3426	-122.8299
41814	Lone Pin e Creek at Brookdale Ave. and Ruby Dr.	42.3434	-122.8226
	Little Butte Creek Subbasin Recon Site Names		
41932	Little Butte Creek at Harnish Wayside	42.7126	-122.8145
41933	Little Butte Creek at Golf Course	42.4612	-122.8143
41934	Trib to Little Butte Creek DS Pond	42.4847	-122.8188
41935	Little Butte Creek DS of Diversion	42.4764	+122.7936
41936	Nichols Branch at mouth	42.7156	-122.7808
41937	Bitter Lick Creek at mouth	42.7089	-122.7423

*Additional phenoxy and Glyphosate sampling at 36641 and 41005 Lone Pine Creek sites. Additional phenoxy and glyphosate samples at all little Butte Creek Recon sites. Watershed Council will choose sites for collection.

Table 2f Pudding Sampling Sites

STATION No.*	Pudding Basin Active Site Names*	Latitude	Longitude
10886	Mill Creek at Ehlen Road	45.2334	-122.7571
10888	Mill Creek at Crosby Road Bridge	45.1650	-122.8401
10917	Pudding River at Hwy 99E (Aurora)	45.2338	-122.7490
41006	Mill Creek at Hazelnut Rd	45.1553	-122.8442
41193	Mill Creek at RM 3.49	45.2102	-122.7776

*Additional phenoxy and Glyphosate sampling at 10886 Mill Creek at Ehlen Road

Table 2g Walla Walla Sampling Sites

STATION No.*	Walla Walla Basin Active Site Names*	Latitude	Longitude
32010	West Prong Little Walla Walla R., N of Stateline Rd	45.9992	-118.4352
32012	Little Walla Walla River at The Frog	45.9449	-118.3940
33083	Little Walla Walla River, Mid West Prong	45.9744	-118.4172
33084	Little Walla Walla River, West Branch / Crocket	45.9699	-118.4106
42042	Birch Creek at Telephone Pole RD	45.9971	-118.3667

*Additional phenoxy and Glyphosate sampling at two sites – TBD by watershed council

Table 2h Wasco Sampling Sites

STATION No.*	Mid-Columbia Basin – Wasco County Site Name*	Latitude	Longitude
25204	Threemile Creek at Hwy. 197	45.5980	-121.1350
28574	Mill Creek at 2nd Street, The Dalles	45.6041	-121.1888
28575	Mill Creek at Wright Road	45.5932	-121.2093
36179	Fifteenmile Creek above Seufert Falls (aka Cushing Falls)	45.6119	-121.1176

*Additional phenoxy and Glyphosate sampling at 36179 Fifteenmile Creek site

Table 2i Yamhill Sampling Sites

STATION No.*	Yamhill Basin – Yamhill WSC Active Site Names*	Latitude	Longitude
34232	West Fork Palmer Creek at Webfoot Road	45.2119	-123.0854
34233	East Branch Palmer Creek at Stringtown Road	45.1968	-123.0839
34234	Lower Cozine Creek at Davis St. Bridge	45.2048	-123.1952
34235	Middle Cozine Creek at Old Sheridan Road	45.1946	-123.2130
37639	West Fork Palmer Creek at SE Palmer Road	45.1823	-123.0912

*Additional phenoxy and Glyphosate sampling – TBD by watershed council

2.2. Sampling Methods, Sample Handling, and Custody

This monitoring project consists of total solid and pesticide sample collection by watershed council and DEQ staff.

The grab samples for solids and pesticides will be collected, placed on ice, and delivered within holding times (holding time starts at the collection time of the first sample to the time in which the analysis begins) to the DEQ Laboratory.

Field duplicates and transfer blanks will be collected at a 5% frequency for each survey batch as defined in the QAPP. Multiple watersheds may be combined into one survey batch if collected in the same week. Additional jars will be provided to accommodate the collection of the Matrix Spike / Matrix Spike Duplicate samples.

Extra containers for Matrix Spikes/Matrix Spike Duplicates will be collected at approximately 5% frequency. See Note 3 below.

Table 3 below presents a summary of the sampling containers, preservation requirements, and holding times

Table 3 Summary of sampling parameters

Sample Type	Holding Time	Container	Minimum Volume
Total Solids by SM2540B	7 days	Clear poly or glass, 500mL or 1000mL	100 mL
Total Suspended Solids by SM 2540D	7 days	Clear poly or glass, 500mL or 1000mL	200 mL
Pesticides-HV by GCMS in Water (EPA 8270D)	7 days extract / 40 days analyze	Amber glass, 1000mL	1000 mL
Phenoxy herbicides by GCECD 6640 In Water**	7 days extract / 40 days analyze	Amber glass, 125mL	40 mL
Pesticides by LCMSMS SOP 11-0031 in Water	7 days extract / 40 days analyze	Amber glass, 1000mL	1000 mL
Glyphosate by LCMSMS in Water by (DEQ16-LAB-0001-SOP)	180 days	Amber poly, 250mL	250 mL
** Based on sampling results, this analytical suite may be eliminated during the sampling season. A complete list of analytes in each of these groups can be found in the Quality Assurance Project Plan for Pesticide Stewardship Partnerships (DEQ05-LAB-0022-QAPP).			

Note 1: A standard set of sample containers will be 1 1000mL amber jar, 1 500mL clear poly bottle.

Note 2: A field duplicate set of sample containers will be 2 1000mL amber jar, 2 500mL clear poly bottle per site.

Note 3: Two additional 1000mL amber jars for standard PSP collection and two additional 125mL amber glass and one 250mL amber poly containers during phenoxy and glyphosate collection will be collected at one site every week (at least one per watershed, if possible, during

the sample season) to be used by the lab as needed for matrix spikes and matrix spike duplicates.

All samples submitted to the LEAD for analysis must be accompanied with the current "Chain of Custody" (COC) form. This form is a LEAD controlled records form (DEQ06-LAB-0054-FORM). The LPM will assist sampling organizations in acquiring and using the appropriate COC.

2.3. Analytical Parameters, Methods, and Quality Control

The table below is a summary of the requested analytical parameters and methods. Standard DEQ laboratory operating procedures will be following during the analyses of the samples, including analytical quality control measures and equipment inspection/maintenance.

Analytical parameters and method QC limits are defined in the associated QAPP.

Table 4 Summary of analytical parameters and methods

Sample Type	Analytical Parameters	Reference Method
Water	Total Solids	SM 2540B
Water	Pesticides HV by GCMS	EPA 8270
Water	Pesticides by LCMSMS	DEQ11-LAB-0031-SOP
Water	phenoxy herbicides by GCECD	SM 6640
Water	Glyphosate by LCMSMS	DEQ11-LAB-0031-SOP

2.4. Data Management

The Analytical Reports generated by the LEAD will be sent to the Toxics Coordinator and Project Manager as a link to an electronic PDF report. The LEAD will follow standard laboratory practices in generating the final analytical report. The official hard copy of the analytical report with signature(s) and supporting QC documentation will be kept on file at the LEAD. Copies of the report will be made available upon request. Unless otherwise arranged, data generated by LEAD will be moved to AQWMS. Data in AQWMS is publicly available through the DEQ website.

3. Assessment and Oversight

Overall project assessment and oversight, including field activities, will be the responsibility of the Laboratory Project Manager (LPM). Refer to the QAPP (DEQ05-LAB-0022-QAPP) for more specific details.

LEAD management and Quality Assurance Officers will provide assistance to the LPM as needed. The Quality Assurance Officers may conduct internal audits routinely or for cause. Any analytical anomalies or delays encountered during laboratory operations will be communicated to the Project Manager in writing (e-mail is acceptable). The Project Manager will also be notified in writing of any data quality limitations that may be the result of laboratory operations.

4. Data Validation and Usability

The LEAD will follow routine data review, verification, and validation procedures. Refer to the QAPP (DEQ05-LAB-0022-QAPP) for more specific details.

If it is called to the attention of the DEQ LPM that data quality issues exist, the LPM in their best judgment may flagged any and all data in the final analytical report that may be inaccurate, misleading, or otherwise fails to meet the LEAD's quality standards. Data quality levels (DQL) will be assigned in accordance to DEQ guidance document *Data Validation and Qualification* (DEQ09-LAB-0006-QAG). Moreover, this data will be appropriately qualified prior to generating the final report. THE LPM may choose to consult with a QAO for these determinations.

Only sample results of "A" or "B" quality will be reported and used by the Project Coordinator.

5. Revision History

Revision	Date	Changes	Editor
1.0	2/22/2011	Initial SAP	K. Masterson
2.1	9/29/2014	Revision 2.1 and before were not captured in revision history.	A. Hamel
3.0	5/27/2022	Added revision history (section 5), migrated to new template, updates to tables by project	A. Hamel, C. Moore
4.0	03/06/2025-11/17/2025	Updated to cover 2024 sampling	A. Hamel, S. Krepps

Appendix A Table A1 – A13 INACTIVE STATIONS

Table A1 Amazon Sampling Sites

	Amazon Basin **Inactive Site Names**		
25624	Amazon Creek at 29th Street	44.0262	-123.0831

Table A2 Clackamas Sampling Sites

	Clackamas Basin **Inactive Site Names**		
10868	NF Deep Creek at Hwy 212	45.4327	-122.3533
32068	Noyer Creek at Hwy 212	45.4172	-122.4082
32069	NF Deep Creek at Springwater trail, Boring, between 2nd and 3rd towers from trailhead (Clackamas)	45.4251	-122.3836
32074	Rock Creek at 172nd, Stony Brook Court	45.4228	-122.4848
38096	Eagle Creek at Eagle Fern Park US of weir	45.3217	-122.2885
38826	Deep Creek on the corner of Crane and Gold Rds.	45.3499	-122.2992

Table A3 Hood Sampling Sites

	Hood Basin **Inactive Site Names**		
10681	West Fork Hood River at mouth	45.6048	-121.6333
12012	Hood River at footbridge D/S of I84	45.7107	-121.5067
13183	East Fork Neal Creek at mouth	45.5946	-121.4990
25124	Evans Creek at bridge (Baseline Road	45.5195	-121.5793
30174	Upper Near Creek, downstream of EFIC	45.5991	-121.5011
31499	Middle Neal Creek at Hwy 35	45.6426	-121.5140
34787	West Fork Hood River at Moving Falls (RM 2.5)	45.6424	-121.5434
34788	Rogers Spring Creek at Red Hill Driver (RM 0.25)	45.5237	-121.6207
37054	Drainage to Trout Ck South of Culbertson Dr	45.5054	-121.5992
32464	West Fork Neal Creek below EFID main canal	45.5862	-121.5255
38333	EF Hood River DS Trout Creek	45.5709	-121.6207

Table A4 Mid-Deschutes Sampling Sites

	Deschutes Basin - Middle **Inactive Site Names**		
33215	Willow Creek inflow	44.6718	-121.2278
34797	Mud Springs at US side of bridge at Gateway, OR	44.7753	-121.0807
36776	Trout Creek downstream of Mud Springs Creek	44.8013	-121.0660
37636	Culver Drain at Crooked River Campground, Cove Palisades State Park	44.5430	-121.2583

37637	Trout Creek US of Mud Springs Creek	44.8022	-121.0634
40773	Culver Drain upstream of Catchment Basin	44.5436	-121.2488
41369	Campbell Creek at the weir east of Columbia Drive	44.7181	-121.1736

Table A5 Mid-Rogue Sampling Sites

	Middle Rogue Basin Inactive Site Names		
11128	Larson Creek at Ellendale Drive	42.3144	-122.8456
11130	Wagner Creek at Valley View Road (Talent)	42.2458	-122.7801
12535	Payne Creek at Culvert (Phoenix)	42.2791	-122.8100
12719	Jackson Creek at Beall Lane	42.3627	-122.9280
23074	Wagner Creek at mouth (Truck stop)	42.2477	-122.7791
37683	Jackson Creek at Dean Creek Bridge (to Bear CK)	42.4041	-122.9389
37685	Griffin Creek at Greenway Bridge (to Bear CK)	42.3946	-122.9252
37686	Coleman Creek at Greenway Bridge (to Bear CK)	42.2850	-122.8213
38281	Wagner Creek at Wagner Creek Park	42.2372	-122.7866
38282	Wagner Creek at Wagner Creek Trail	42.1784	-122.7810
38832	Larson Creek at N. Phoenix Rd.	42.3120	-122.8154
40712	Jackson Creek at Jacksonville	42.3210	-122.9586
40713	Phoenix Canal at Jackson Creek	42.3209	-122.9584
40714	Jackson Creek at South Oregon Research and Extension Center (SOREC)	42.3384	-122.9352
40715	Hoskins Canal at Jackson Creek	42.3563	-122.9291
40716	Jackson Creek above Hoskins Canal	42.3536	-122.9292
41006	Lone Pine Canal at Foothill Rd	42.3496	-122.8242
41215	Unnamed Trib (1228896423703) to Lone Pine Creek Just east of Thrasher Road (AKA Thrasher Road Blitz Point)	42.3427	-122.8280
41216	Unnamed Trib (1228896423703) to Lone Pine Creek At metal plate near east end of Silverbirch Lane (AKA Metal Plate Blitz Point)	42.3437	-122.8251
41217	Unnamed Trib (1228896423703) to Lone Pine Creek At culvert at NW end of Foothills and McAndrews Roads cloverleaf (AKA Culvert Blitz Point)	42.3446	-122.8232

Table A6 Pudding Sampling Sites

	Pudding Basin Inactive Site Names		
10646	Silver Creek at Brush Creek Road	45.0066	-122.8242
10899	Zollner Creek at Monitor-McKee Road Bridge	45.1004	-122.8225
11514	South Fork Bochsler Creek at Hwy 214	45.0953	-122.7833
11515	Zollner Creek at Hwy 214	45.0882	-122.7872
11516	Zollner Creek at Dominic Road	45.0860	-122.7860
11519	Zollner Creek at NE Marquam Rd	45.0694	-122.7536
31872	Abiqua Creek at Gallon House bridge	45.0323	-122.7980

31875	Little Pudding River at Rambler Road	45.0458	-122.8956
40122	Butte Creek at Woodburn-Monitor Rd NE, Monitor	45.1016	-122.7462
40759	Pudding River at S. Anderson Rd near RR crossing		
41007	Zollner Creek near Kaiser Lane	45.0778	-122.7763
41095	Unnamed Trib to Zollner Creek LLID 4507501227630 at RM 0.5	45.0723	-122.7539

Table A7 Walla Walla Sampling Sites

	Walla Walla Basin **Inactive Site Names**		
13013	Pine Creek at Johnson Road Bridge	45.8340	-118.4353
23487	South Fork Walla Walla River at Harris County Park	45.8293	-118.1651
23492	Walla Walla River at Day Road south	45.9010	-118.3332
32007	Walla Walla River at Grove School Bridge	45.9215	-118.3755
32008	Walla Walla River at Pepper's Bridge	45.9880	-118.3742
32009	East Little Walla Walla River north of Stateline Road	46.0078	-118.4090
34820	Little Walla Walla River, upstream west branch/crockett at ag diversion	45.9694	-118.4105
37695	Pine Creek at Schubert Road	45.9599	-118.5369
37696	Dry Creek at Seven Hills Road	45.9474	-118. 4660
40722	Couse Creek at RM 1.1	45.8954	-118.3696

Table A8 Wasco Sampling Sites

	Mid-Columbia Basin – Wasco County **Inactive Site Names**		
28981	Mill Creek at 6th Street Bridge in The Dalles, OR	45.6033	-121.1936
30173	South Fork Mill Creek at Reservoir Road	45.5474	-121.3097
37434	Fifteenmile Creek at Dufur Park	45.4510	-121.1251

Table A9 Yamhill Sampling Sites

	Yamhill Basin – Yamhill WSC **Inactive Site Names**		
10924	Yamhill River at Marker #18 Lafayette	45.2402	-123.1084
28465	Yamhill Creek downstream of Hwy 47	45.3372	-123.1881
28491	Salt Creek at River Mile 1.5	45.1433	-123.2067
34039	North Yamhill at Wennerberg Park	45.2918	-123.1897
35083	Yamhill River at Lafayette Hwy	45.2395	-123.1145
37640	West Fork Palmer Creek at SE Lafayette Hwy	45.1695	-123.1079
38516	Palmer Creek Water District Withdrawal	45.0793	-123.0695

Table A10 South Umpqua Sampling Sites

STATION No.*	South Umpqua Basin Inactive Site Names	Latitude	Longitude
10997	Cow Creek at mouth	42.9429	-123.3369
11316	Myrtle Creek at mouth	43.0230	-123.2959
12248	Lookingglass Creek at Hwy 42	43.1178	-123.4278
25950	Deer Creek at Fowler Bridge, Roseburg	43.2123	-123.3391
30163	South Umpqua River above Mouth	43.2666	-123.4470
38828	Lookingglass Creek at bridge near Happy Valley	43.1452	-123.4642
38831	NF Myrtle Creek DS of Bilger Creek confluence	43.0368	-123.2682

Table A11 South Yamhill Sampling Sites

STATION No.*	South Yamhill Basin – Grande Ronde Tribe Inactive Site Names	Latitude	Longitude
36325	Rogue River at Hwy. 18 / Salmon River Hwy	45.0602	-123.6580
36296	Agency Creek at SW Grand Ronde Road	45.0981	-123.6202
36297	Gold Creek at Gold Creek Road, third crossing from Fort Hill / Yamhill River Road	45.0250	-123.5491

Table A12 South Coast – Coos County Sampling Sites

STATION No.*	South Coast Basin – Coos County Inactive Site Names	Latitude	Longitude
11574	Cunningham Creek at County Park	43.1798	-124.2016
37805	Myrtle Creek at confluence with MF Coquille River	43.0160	-123.9902
37809	Twomile Creek at wetland cement bridge	43.0568	-124.4259
37849	Cunningham Creek at Coquille HS baseball field	43.1854	-124.1889
38026	Gross Creek at corner of Edison and Jetty Roads	43.1203	-124.4193

Table A13 South Coast – Curry County Sampling Sites

STATION No.*	South Coast Basin – Curry County Inactive Site Names	Latitude	Longitude
30672	Euchre Creek at Ophir Road Bridge	42.5607	-124.3828
36637	Croft Lake Outlet	42.9864	-124.4566
36674	Sixes R Abv Estuary	42.8410	-124.5263