



Clackamas River Basin Council

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REQUEST FOR PROPOSALS

Clackamas River Basin Council (CRBC) is requesting proposals from qualified individuals for a contracted

Project Consultant to develop a strategic plan

for the

ODA Clackamas Basin Pesticide Stewardship Partnership

*A partnership focused on improving
pesticide reduction on the Clackamas River Basin in Oregon*

Proposal Due:

5pm Thursday June 19th, 2019

Submit To:

Clackamas River Basin Council (CRBC)

PO Box 1869

Clackamas, OR, 97015

(503) 303-4372 suzi@clackamasriver.org

1. SUMMARY

Clackamas River Basin Council (CRBC) is seeking a consultant to coordinate communications while developing a strategic action plan to reduce pesticide use in the Clackamas River Basin. This consultancy will be a 2-year commitment.

The Clackamas River Basin Council is a 501(c)(3) non-profit organization with a mission to *foster partnerships for clean water and to improve fish and wildlife habitat and the quality of life for all those who live, work, and recreate in the Clackamas watershed*. Please visit our website www.clackamasriver.org for more information about our services, programs and projects.

2. BACKGROUND

The Clackamas River provides drinking water for nearly 400,000 people, serves as a source for recreation for thousands, and is a safe harbor for endangered fish to spawn, rear and migrate. The Clackamas Basin Pesticide Stewardship Partnership (Clackamas PSP) is a voluntary, collaborative process to protect the river and its tributaries. Local and state organizations and agencies offer water quality monitoring, resources and training for landowners and managers to enable more efficient and effective pesticide use that reduces drift and runoff.

Oregon has a statewide pesticide management plan (PMP) that was approved by the EPA in 2011. This plan outlines how pesticides and pesticide occurrences are dealt with in the state. *See Appendix.*

Why Pesticide Stewardship Partnerships?

Benefits for Oregon

Healthy drinking water. Clean rivers. Native salmon. Support of wildlife habitat. Safe fish to eat.

Benefits to business

More efficient operations. Money saved through waste reduction. Reduced risk of regulation, environmental clean-ups, and negative health effects. Community-based knowledge, not “one-size-fits-all” fixes.

Benefits for best practices pest management

Integrated pest management principles ensure efficient, appropriate use of pesticides. Preventing pests, using pesticides only when necessary, and using the least pest control chemicals can be effective help prevent off-target

Pesticide stewardship partnerships

- Identify potential concerns and improve water quality affected by pesticide use around Oregon.
- Use water quality sampling results to encourage voluntary changes in pesticide use and management practices.
- Find ways to reduce pesticide levels while measuring improvements in water quality and crop management.
- Work toward measurable environmental improvements, making Oregon waters safer for aquatic life and humans.

Voluntary Steps in a PSP

- Monitor water quality to identify pesticides of concern.
- Share and explain water quality monitoring results with those who are interested in protecting the quality of local streams and rivers.
- Engage pesticide users and technical assistance providers to identify and implement voluntary solutions to reduce pesticide drift, runoff, and waste.
- Use long-term water quality monitoring to measure success in reducing pesticides of concern and evaluate the effectiveness of strategies.

Pesticides of Concern (POC's)

Since 2000, water monitoring has detected pesticides in Clackamas River tributaries that exceed benchmarks to protect fish and invertebrates. Since 2005, the Oregon Department of Environmental Quality (ODEQ) has conducted pesticide monitoring on four tributaries on the lower Clackamas River:

- Noyer Creek
- North Fork Deep Creek
- Deep Creek
- Rock Creek
- Sieben Creek

The active ingredients and common trade names of pesticides found at high levels or frequencies of concern in the Clackamas Basin include:

- simazine: Princep
- chlorpyrifos: Yuma and Lorsban Advanced
- bifenthrin: Capture 2EC, Brigade 2EC, Brigade WSB, Wisdom
- diuron: Karmex, Direx
- oxyfluorfen: Goal 2XL, Goal Tender
- chlorothalonil: Bravo Weather Stik, Chloronil 720
- dichlobenil: Casoron

3. SCOPE OF WORK AND TIMELINE

This is a two-year contract. Generally, the Consultant will consult monthly with the Clackamas PSP (principally CRBC and Clackamas SWCD) throughout the course of the contract.

The goal of this proposal is to strengthen the Clackamas Pesticide Stewardship Partnership's (PSP) ability to increase effectiveness at reducing the negative environmental impacts of pesticides on the watershed's waterbodies and the organisms and economies that depend on these water supplies. The major project objective is the development and adoption (by participating members) of the Clackamas PSP strategic plan. The objectives of the first two years are to research pesticide use in the key sub watersheds, to research and recruit a Coordinating Council of key stakeholders in applicable sub-watersheds, and to create a Strategic Plan document. This includes a communications plan that will set clear communication goals and objectives for PSP activities, develop key messages that effectively inform target audiences regarding pesticide use, and identify effective communication channels, techniques, and tools for each target audience. This will culminate in approval by the Coordinating Council of the Clackamas PSP strategic plan by June 2021. Consultant will partner with the CRBC, Clackamas Soil and Water Conservation District, and other key stakeholders to develop and share key PSP messages and actionable information that effectively engages target audiences within the Clackamas Pesticide Stewardship Partnership area by June 2021.

This is a two-year planning effort within a 5-year strategic plan. The strategic plan will guide and facilitate the activities of the PSP for the next five years.

Specific Tasks:

In order to develop a Strategic Plan to monitor and effectively address pesticide occurrences in surface water within the Clackamas PSP, an understanding of past and present water quality information and its relationship to past and present pesticide application practices is necessary.

3a. Identify current pesticides of concern (POC's) and pesticides on interest (POI's) and their uses and user groups. The methodology to be used for that evaluation is attached in Appendix. An evaluation of the last three years of data indicates that pesticides of highest and moderate concern in the Clackamas PSP are:

Highest Concern	Moderate Concern
Carbaryl	2,6-dichlorobenzamide (dichlobenil)
Chlorpyrifos	AMPA (Glyphosate)
Diazinon	Glyphosate
Diuron	Simazine
Imidacloprid	

3b. Identify critical areas. In evaluating past and present water quality data, a determination of detection “clusters” will be made. The purpose is to determine where in the Clackamas PSP we should focus our efforts. An initial assessment done by ODEQ/Oregon Department of Agriculture (ODA) indicates that three sub-watersheds present the most concern. **They are indicated by the following ODEQ water quality monitoring locations:**

- **Noyer Creek @ Highway 212 (Station ID 32068)**
- **North Fork Deep Creek @ Highway 212 (Station ID 10868)**
- **Sieben Creek @ hwy 212 (Station ID 32066)**

The land area associated with pesticide use within each key sub-watershed will be determined. Major land use categories could include urban, nursery, general agriculture, right-of-way (roads), and forestry. This information will assist in an adequately determining focus areas and potential management measures to be used in the Strategic Plan.

3c. Assess sources of pesticides of high concern and pesticides of moderate concern. In order to accomplish this task, it will be necessary to collect information regarding user groups and the application practices associated with these chemicals. The major task associated with this activity will be establishing small group meetings with various user groups or stakeholders to better define current practices and develop an “application calendar” for those pesticides deemed of high and moderate concern. This step is considered vital to the success of the strategic planning process since focus groups that are part of this initial process will be asked to participate on the “**coordinating council**”. Initially, emphasis should be placed on those areas demonstrating highest frequency and concentration of pesticide residues.

Information collected from these small groups shall include:

- Pesticide target
- Pesticides used
- Application timing
- Pests of most concern
- Current source of information related to pesticide application
- Need for outreach / technical assistance

3d. Create a strategic plan for PSP

The main goal of the project is the development of a five-year strategic plan for pesticide management that utilizes water quality information and other factors that impact the application of pesticides posing a risk to surface and groundwater bodies. The development of the Strategic Plan, by necessity, must be a collaborative process that considers input from a wide range of potentially impacted stakeholders.. As such, in developing the membership list for the Coordinating Council the grantee should consider the following organizations and activities:

- Christmas Tree Growers
- Hay Producers
- Nursery Operations
- Golf courses
- Pesticide Distributors
- Berry Growers
- OSU
- USGS
- City and County Transportation and Development and other Right of Way holders
- Oregon Environmental Council
- Commercial Forestry
- Clackamas River Basin Council
- Clackamas Soil and Water Conservation District
- Water providers

The Coordinating Council (CC) should be formed as early in the process as possible, but generally following initial meetings with small group stakeholders as specified in 3c. The CC meeting should be facilitated by the contractor and the Clackamas River Basin Council.

The duties of the CC will be to formulate the structure of the Strategic Planning document. The CC should consider all major factors that adequately address elements pertaining to the reduction or elimination of pesticide residues in surface and groundwater resources in the Clackamas PSP. It will also be the responsibility of the CC to review drafts of the Strategic Plan and provide input into its final development.

3e. Draft a Strategic Plan

Components of the Strategic Plan

There are 10 required components of the Strategic Plan. These elements have been developed to provide an adequate background of the Clackamas PSP, information that provides an understanding of pesticide occurrences in the PSP, development of measures that can be used to address pesticide concerns, and a methodology to assess their effectiveness. **Specific chapters of the Strategic Plan are to include:**

- **Section one of the PSP strategic plan shall describe the history of the area to include the pesticide water quality results/issues.** This section along with section 2 set the stage of the document
- **Section two shall describe the various dominant land uses within the boundaries of the PSP.** This generally will include a break out of agricultural and forest lands, and urban and commercial areas. A map of the PSP boundaries shall be included.
- **Section three shall describe the pesticides of concern (POC) within the PSP area.** This section describes the methodology used to determine the unique POC's. Also in this section will be a description of the pesticides of interest (POI's) unique to the watershed and how this determination was made by the Coordinating Council. This determination will be guided by state methodology but should incorporate significant local concerns.
- **Section four shall describe which sub-watersheds within the PSP boundary have demonstrated pesticide concentrations of concern.** Within this section those areas that have demonstrated periodic or consistent high levels of pesticide residues (Critical Areas) shall be identified, justified and prioritized. A map of the critical areas should be included in this section. These maps can be obtained from ODEQ.
- **Section five will present the results of previously held small group meetings with pesticide applicators, dealers, crop consultants, OSU extension, grower groups, county and city public works departments, etc.** This section will include a description of how, when and why the POC and POI pesticides are used. Also included will be "pesticide application tables" which will provide information related to pesticide application timing and target uses. This information will be valuable in determining such planning activities as monitoring locations and timing, outreach focus, and future grant funding.
- **Section six will include a description of the goals for the Clackamas watershed related to the reduction of POC's and POI's in the PSP area waterbodies.** These goals shall be specified for each identified

POC/POI and will include concentration reductions and timelines to achieve those reductions, and include a water quality monitoring plan designed to track the achievement of the specified goals.

- **Section seven should bring together the information presented in previous sections in order to plan for and develop management measures to address current POC's and POI's.**

These management measures should include but are not limited to the following:

- Development and implementation of education materials directed toward users of the designated POC's and POI's to inform them of the proper way to apply these pesticides and the critical application elements included in the pesticide label.
- Development and distribution of physical management measures such as irrigation efficiency technologies, improved spray technologies and practices, hedgerow installation, and settling ponds for sediment removal, etc. (the management measure table included in the latest National Marine Fisheries Service Biological Opinion provides a good example of physical improvements that could be made to reduce pesticide loading to nearby waterbodies).
- Specify technical elements that the PSP will require from the state that will assist in the implementation of one or more of the above elements (examples include conducting watershed specific continuing education courses that deal with POC's and POI's within the watershed, working with state agencies to modify labels if necessary, assistance in working with specific industry groups to effect necessary changes in voluntary application techniques).
- **Section eight will provide the methodology or methodologies to be used in the PSP to assess the effectiveness of management measures implemented.** There are a variety of methods that could be employed that would satisfy the requirements of this section, for example:
 - Document the change in physical management measures employed on pesticide application areas
 - Track improvements to water quality following implementation of specific management measures
 - Track the number of website visits to sites that provide information of how to avoid pesticides in water
 - Track attendance at periodic public informational meetings regarding monitoring results
 - Tally responses from periodic surveys regarding changes in pesticide use from growers, general public etc.
- **Section nine will provide a 5 year forecast of technical assistance necessary to achieve the goals outlined in section 6.** These needs may be proposed on a year-to-year basis or may be presented as a five-year assessment. Additionally, an assessment should be made in regards to financial needs for the PSP. This should include financial needs from the PSP program and needs supported by other funding mechanisms, such as other state and or federal grant programs (NRCS, EPA, Farm Bill). In developing multi-year projects to advance the goals set forth in section 5, the coordinating council should consult with OSU, other research institutions, tribal governments, private non-profits, and businesses to evaluate grants or cost sharing opportunities.
- **Section ten will include statements of commitment from all participating agencies and organizations that participated in the development of the Strategic Plan.** These signatories will become the permanent coordinating council. The council will be the body that oversees the implementation of the Strategic Plan and will

be the body that will address issues as they arise, be it technical, financial, changes in monitoring locations, modification of critical areas, modification of POC/POI, etc.

3f. Timeline

Project Activity	Who will do the work?	Target dates
Develop strategic plan	Project Consultant	July 2019- June 2021
Establish and conduct small group stakeholder meetings	Consultant will schedule and conduct (6-7) meetings to collect pesticide application information	July 2019 to December 2019
Develop POC/POI and Critical Areas	Consultant will assess WQ data and application information with input from CRBC, ODA and OSU	Completed by January 2020
PSP steering committee meetings	Consultant will lead Coordinating Council activities' during strategic plan development. OSU will host regularly scheduled producer meetings	Commence Coordinating Council meetings. These meetings will run from February through June 30th, 2020.
Communication strategy that outlines key messages that effectively speak to target audiences	Consultant with input from the CRBC and CSWCD will develop or modify current communication strategy and include elements specified in the Scope of Work	Begin July, 2019 draft completed by January 2020 for Coordinating Council review

5. PERFORMANCE MONITORING OBJECTIVES

After the Strategic Plan has been enacted, the Clackamas PSP will conduct an internal evaluation of its progress toward achieving the overall project goal: To strengthen the Clackamas PSP's ability to increase its effectiveness at reducing potential negative environmental impacts of pesticides on the Clackamas watershed's waterbodies and the organisms and economies that depend on these water supplies. The evaluation will be conducted by the Clackamas PSP coordinator with input from coordinating committee members. Results of the evaluation will be documented in the interim and final reports. Performance metrics, data collection, and communication strategies will vary by project objective.

a) Stakeholder approval of Clackamas PSP strategic plan by June 2021.

Performance monitoring for the Clackamas PSP will assess the coordinating committee's progress towards and attitudes about the strategic planning process, perception of the partnership and its' activities, identify the degree to which project objectives were achieved, and provide recommendations for project development and improvement.

Evaluation of the partnership will consist of qualitative surveys of predetermined questions about the PSP. The coordinator will develop an anonymous Google survey targeting active PSP steering committee members. The survey will ask questions about process/operation (e.g. Are you satisfied with your involvement in the project? How are you contributing to PSP/pesticide-related water quality improvement? How do you define PSP/s goals/accomplishments?), outcomes/impacts (What are the impacts of PSP on your organization? Did participants experience changes in skills/attitudes?), and alternatives/lessons learned (What could have been done better?). In addition, the coordinator will track meeting attendance to evaluate partnership retention and recruitment of new partners. The survey will be conducted annually and shared at the Middle Rogue PSP steering committee meetings.

b) Partner with CRBC, CSWCD, OSU and County/City agencies to develop and share key PSP messages and actionable information that effectively speak to target audiences in the Clackamas watershed by June 2021.

Specific outreach-based performance monitoring targets and monitoring strategies will be identified in a Clackamas River PSP communication strategy. Metrics will be set to measure activities, reach, engagement, and long-term impact. The communication strategy will dictate how and where to share various published materials.

Communication venues may include presentations to user groups, crop consultancies, co-ops, and/or working groups. Types of media may include local newspapers, radio stations, newsletters, interviews and social media such as Facebook, partner websites, newsletters, and email updates.

Communication-based monitoring will be conducted by the contractor and CRBC. All communication materials produced as a part of this project will be published on the CRBC and SWCD and key stakeholders websites. A final evaluation of the communication materials will be documented in a final report.

CONTRACTOR QUALIFICATIONS

Minimum BS /BA degree in any agricultural or natural resources discipline, communications, business, public relations or social sciences

- Minimum five-years' experience in agricultural or natural resource communication liaison work.
- Strong knowledge of agricultural production
- Strong knowledge of strategic planning
- Experience facilitating a diverse group of stakeholders and developing consensus on an agreed upon plan
- Experience managing complex issues with multiple interests, groups and partners
- Strong communication skills, including written and verbal
- Attention to detail
- Experience using an array of public engagement and communication technologies and strategies
- Experience implementing projects and measuring and reporting progress

6. PROPOSAL REQUIREMENTS

The purpose of this Request for Proposal (RFP) is to solicit proposals from various candidates, conduct a fair and extensive evaluation based on criteria listed herein, and select the candidate who best represents the direction of the project. **Proposals will be accepted until 5pm PST June 19th, 2019.** Any proposals received after this date and time will be considered untimely responses. All proposals must be signed by an official agent or representative of the company or principle submitting the proposal.

The response to this RFP shall include the following information. Respondents should provide complete and current information for all categories.

6.1 Project Approach

Provide a concise statement of Consultant's understanding of the critical issues unique to this project. Describe how Consultant would approach the various tasks and activities listed in the Scope of Work, and how these tasks and activities will lead to a successful project. Consultant may include any additional tasks or deliverables not listed in the Scope of Work that they feel are important to the overall goals and success of the project.

6.2 Project Schedule and Bid

Provide information on Consultant's availability for this project and submit a detailed project schedule. Identify key tasks and the actions that will be performed by Consultant or that may be needed by others including PSP's member organization staff members.

Provide a summary chart, graph, or table of the project bid estimate, including itemized service and supply expenses. This budget estimate should be based on the tasks shown in the scope of work for the period covered.

Clackamas PSP member organizations anticipate the total expenditures for this project not to exceed \$25,000. The contractor will show that they have the ability to complete the scope of work within this budget. During the contract implementation, the consultant will be required to track the budget by task in a monthly summary showing the status for each task in relation to the estimated budget and timeline. In addition, contractor will inform the partnership of anticipated budget amendments, net zero. No additional funding will be available.

6.3 Qualifications and Experience

Provide qualification/experience information including a list of projects that Consultant has completed that have similar project elements, specifically projects associated with collaborative project management involving numerous parties and stakeholders; multi-party strategic planning; capacity building; and large/small group meeting management and facilitation; and/or project prioritization. Please include digital links to no more than 3 sample project action plans, if available. Projects should have been completed within the last 10 years. Include resumes of all consultants and contractors involved in the project.

6.4 References

List 3 references from projects having similar elements to this plan. Projects should have been completed within the last 7 years.

7. ADMINISTRATIVE

6.1 Number and format of RFP responses

Submit (2) hard copies and one (1) electronic copy of the response to this RFP in accordance with all the requirements set forth herein. The minimum font size for all text shall be 11 point.

6.2 Delivery of Proposal

Proposals will be accepted until 5pm Thursday June 19th, 2019. Any proposals received after this date and time will be considered untimely responses.

Submit proposals to:

Clackamas River Basin Council (CRBC), PO Box 1869, Clackamas, OR 97015

Please direct all questions about the application process to our office 503-303-4372 x 105

Suzi Cloutier, Stewardship and Communications Manager

suzi@clackamasriver.org

Faxed proposals will not be accepted. All RFP submittals shall become property of CRBC, will not be returned, and are considered a matter of public record.

6.3 Proposal Evaluation Criteria

CRBC and the Clackamas PSP members will evaluate all proposals based on the following criteria:

- Project Approach: 25%
- Project Schedule and Bid: 25%
- Qualifications and Experience and references 50%

6.4 Proposal Review Schedule

Proposal Due: **5 pm PST, Thursday June 19th, 2019**

Voluntary consultant information session: June 19th, 2019 9am-10:30 am

Project implementation to begin on July 1

6.5 Obligations and Rights

This solicitation does not and shall not commit CRBC or any of their agents to enter into any agreement, to pay any costs incurred in the preparation of any response to this solicitation, or to procure or contract for any services or supplies. CRBC reserves the right to accept or reject any or all responses to this solicitation, to enter into a contractual agreement with any Consultant submitting a response to this solicitation by the date for same, to delay and/or cancel in part or in its entirety this solicitation if it is in the best interest of the CRBC, in its sole discretion, to do so.

CRBC reserves the right to waive any inconsistencies or discrepancies in the solicitation if CRBC determines it is in its best interest to do so. CRBC may reject proposals that do not meet the requirements of the solicitation in any respect. Response to the solicitation will be entirely voluntary and made with this knowledge.

6.6 Contractual Obligations

The selected consultant will be expected to execute a Professional Services Agreement with the Clackamas River Basin Council (CRBC) containing CRBC's standard language and requirements for General Liability, Workers Compensation, and Professional Liability Insurance.

All contracted work must be performed by the contractor and/or the contractor's organization. Contract terms and conditions will be negotiated upon selection of the winning bidder for this RFP. All contractual terms and conditions will be subject to review by CRBC and partners and will include scope, budget, schedule, and other necessary items pertaining to the project.

APPENDIX LINKS

- 2015-17 PSP Biennial Summary
<https://www.oregon.gov/ODA/shared/Documents/Publications/PesticidesPARC/ClackamasSummary.pdf>
- 2000-2005 USGS Pesticide Occurrence and Distribution in the Lower Clackamas River Basin
<https://pubs.usgs.gov/sir/2008/5027/>
- Oregon Pesticide Management Plan
<https://www.oregon.gov/ODA/shared/Documents/Publications/PesticidesPARC/PesticideManagementPlanWaterQuality.pdf>
- 2012 Risk Analysis Results for Agricultural Activities
http://www.clackamasproviders.org/images/stories/GIS_Agricultural_Activities_Analysis%20Results.pdf
- 2018 Clackamas River Water Providers Lower Clackamas River Macroinvertebrate Assessment
http://www.clackamasproviders.org/wp-content/uploads/2019/02/18-126_CRWP_Macros_FINAL_Rpt_2-28-19.pdf
- Oregon DEQ PSP's
<https://www.oregon.gov/deq/wq/programs/Pages/Pesticide.aspx>
- Clackamas River Basin Action Plan <http://clackamasriver.org/watershed-assessments/action-plan>
- Clackamas Agricultural Water Quality Management Area Plan
<https://www.oregon.gov/ODA/shared/Documents/Publications/NaturalResources/ClackamasAWQMAreaPlan.pdf>
- Regional Conservation Strategy for the Greater Portland-Vancouver Region (The Intertwine Alliance, 2012)
https://www.theintertwine.org/sites/default/files/Regional%20Conservation%20Strategy%20for%20the%20Greater%20Portland-Vancouver%20Region_0.pdf

Appendix Documents

Oregon House Energy and Environment Committee Chlorpyrifos Response letter:

Date: May 8, 2019

To: House Energy and Environment Committee

From: Stephanie Page, Director Natural Resource Programs, ODA

Subject: Pesticide Stewardship Program in Clackamas Watershed

In response to your questions during the House Energy & Environment Committee meeting on April 30th, please find the following information.

A Pesticide Stewardship Partnership (PSP) has been in place in the Clackamas Watershed since 2005 and has monitored water quality for a variety of products including chlorpyrifos. Pesticide Stewardship Partnerships are joint efforts between agencies and local partners, such as landowners, Soil and Water Conservation Districts, and Watershed Councils, in watersheds where pesticide concerns have been identified. In each PSP, the partnership combines local expertise and water quality sampling results to monitor and identify pesticide contaminants in water and strategically target education and outreach efforts to urban and rural pesticide users.

A US Geological Survey study conducted from 2000 to 2005 detected current use pesticides in streams and finished drinking water in the Clackamas watershed. The Clackamas PSP has been working together since 2005 to monitor water quality and implement improvement efforts. We are currently evaluating how the entire PSP has worked and how it should function in the future as part of the program's continuous improvement.

Attached are graphs of chlorpyrifos levels at three PSP monitoring sites in the Clackamas River Watershed at Deep Creek and Noyer Creek (tributaries to the Clackamas River) where we have had detections over multiple years. In addition, we have attached the most recent project summary report from the Clackamas River PSP.

The graphs show that monitoring has found levels of chlorpyrifos above Oregon's water quality standard at the three sites. Oregon has a water quality standard established for chlorpyrifos. This standard was established to protect aquatic life. Standards established to protect aquatic life are typically well below levels of human health concern. The water quality standard for chlorpyrifos is .041 ug/L, as shown on the attached graphs by the dotted red line.

The solid blue bars on the graphs show the average concentrations of chlorpyrifos detected at each site throughout each year. The blue "Ts" on the top of the blue bars show the maximum concentrations detected, and the dark blue diamonds indicate the frequency at which chlorpyrifos was detected in that year's sampling and testing.

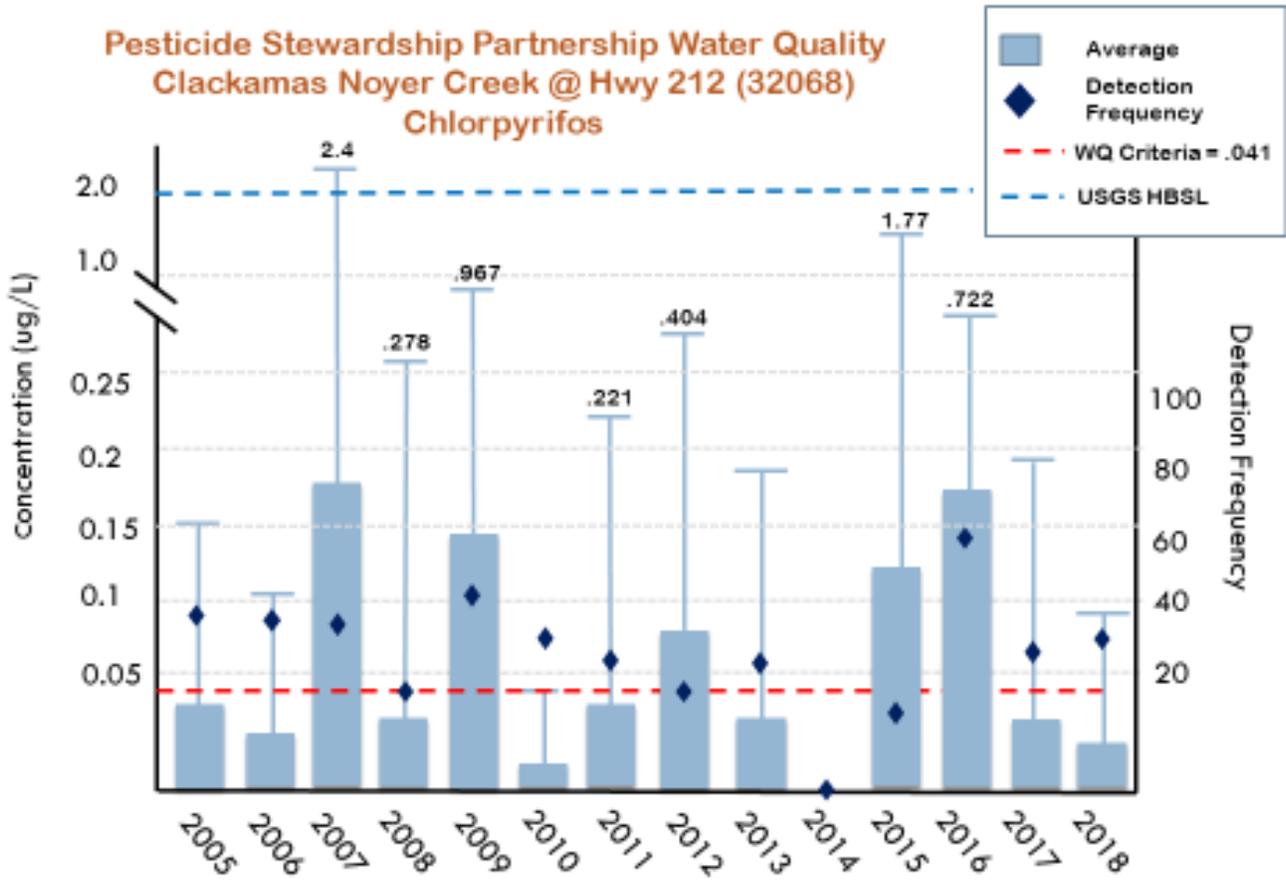
Also shown in a blue dotted line on the graphs is the US Geological Survey Health Based Screening Level for chlorpyrifos in drinking water. The USGS Health Based Screening Level is non-enforceable, and provides technical guidance to public health officials to evaluate whether contaminant levels present a public health concern. EPA has not established a Maximum Contaminant Level (MCL) for chlorpyrifos in drinking water and Oregon does not have its own MCL for chlorpyrifos. Maximum Contaminant Levels are the maximum permissible level of a contaminant in water delivered to users of a public water system.

The graphs show that in some years, average concentrations of chlorpyrifos exceeded the water quality standard at two of the three sites. Also in some years, peak concentrations exceeded the water quality standard at all three sites. In one case, a peak concentration exceeded the USGS Health Based Screening Level for drinking water which may indicate a potential human health concern. The most frequent water quality standard exceedances were at the site in the Noyer Creek watershed.

The interagency team that guides PSP work is evaluating actions that are needed to address these ongoing issues. The partnership is currently developing a strategic plan to lower chlorpyrifos and other pesticide levels in the

watershed and is using the data from the PSP to direct its actions in Noyer Creek. ODA will work with the PSP, including landowners and managers in the watershed as well as local organizations, to achieve lower pesticide concentrations in the water, using a culture of compliance which aligns with ODA's strategic plan. We are also working with OSU to develop curriculum for applicators around protecting water quality when using pesticides.

I hope this information is helpful and please don't hesitate to contact us if you have additional questions.



Pesticide Stewardship Partnership Water Quality
Clackamas North Fork Deep Creek @ Hwy 212 (10868)
Chlorpyrifos

