Source Water Assessment Report

for

Oregon City - South Fork Water Board

PWS #4100591

North Clackamas County Water Commission

PWS #4100580

and

Clackamas River Water

PWS #4100187

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Prepared for

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Executive Summary

The drinking water for Oregon City - South Fork Water Board (OC-SFWB), North Clackamas County Water Commission (NCCWC), and Clackamas River Water (CRW) is supplied by three individual intakes on the Clackamas River. These three public water suppliers teamed with Department of Environmental Quality (DEQ) and the Department of Human Services (DHS) to complete this Source Water Assessment for the Clackamas River watershed upstream of the intakes. Combined, the three public water systems serve approximately 90,000 citizens.

In addition to the intakes for OC-SFWB, NCCWC, and CRW, there are intakes for three other water providers in the Clackamas River watershed: the intake for Lake Oswego Municipal Water is located downstream and the intakes for the City of Estacada and the US Forest Service (USFS) Timberlake Job Corps Center are located upstream. For watersheds with more than one drinking water intake, Oregon completes the assessments by segment and each source water assessment represents the area from the public water system's intake to the next intake upstream. The SFWB, NCCWC, and CRW water systems agreed to collaborate and conduct one watershed assessment for the area upstream of their intakes. This assessment addresses the geographic area providing water to OC-SFWB, NCCWC, and CRW's intakes (SFWB, NCCWC, and CRW's portion of the drinking water protection area) between the OC-SFWB intake and the upstream intake for Estacada. Information on OC-SFWB, NCCWC, and CRW's protection area upstream of the Estacada intake (including the area upstream of the USFS Timberlake JCC's intake) is presented in the Source Water Assessment for those public water systems and is summarized in this report.

Since the drinking water intake for Lake Oswego Municipal Water is located on the Clackamas River downstream of OC-SFWB's intake, activities and impacts in the OC-SFWB, NCCWC, and CRW protection area have the potential to also impact this downstream user.

The OC-SFWB, NCCWC, and CRW intakes are located in the Lower Clackamas River Watershed in the Clackamas Sub-Basin of the Willamette Basin. The geographic area providing water to OC-SFWB, NCCWC, and CRW intakes (SFWB, NCCWC, and CRW's portion of the drinking water protection area) extends upstream from the OC-SFWB intake approximately 335 miles (approximately 1,130 miles including area upstream of the Estacada intake) in a southeasterly direction and encompasses a total area of 264 square miles (939 total square miles including the area upstream of the Estacada intake). Included in this area are a number of tributaries to the Clackamas River including Rock, Richardson, Clear, Eagle, Deep, Foster, and Goose Creeks and their tributaries. The intakes are located at an approximate elevation of 30 to 40 feet and the upper edge of the watershed is located at an elevation of approximately 7,200 feet at Ollalie Butte.

The protection area within an 8-hour travel time from the intake extends approximately 14.3 miles upstream of the OC-SFWB intake. It is recommended that the water systems and community consider increased protection within an 8-hour travel time from the intake since eight hours should provide adequate response time to protect the integrity of the public water system intake should a spill or release occur at any crossing or discharge point to the stream. An inventory of potential contamination sources was performed within OC-SFWB, NCCWC, and CRW's drinking water protection area. The primary intent of this inventory was to identify and locate significant potential sources of contaminants of concern. The inventory was conducted by reviewing applicable state and federal regulatory databases and land use maps,

interviewing persons knowledgeable of the area, and conducting a windshield survey by driving through the drinking water protection area to field locate and verify as many of the potential contaminant source activities as possible. The primary contaminants of concern for surface water intakes are sediments/turbidity, microbiological, and nutrients. It is important to remember that the sites and areas identified are only potential sources of contamination to the drinking water. Water quality impacts are not likely to occur when contaminants are used and managed properly and land use activities occur in such a way as to minimize erosion and contaminant releases.

The delineated drinking water protection area is occupied by multiple land uses. The "inventory" of potential sources of contamination was conducted by using the standard procedures and list developed by the statewide advisory committee and is consistent with what has been used throughout the state for the assessments. In this assessment process, a total of 1,127 potential contamination sources were identified within OC-SFWB, NCCWC, and CRW's portion of the drinking water protection area. An additional 51 potential sources of contamination were identified upstream of the Estacada intake. Of the sources identified in the OC-SFWB, NCCWC, and CRW's portion of the protection area, 533 are located in the sensitive areas. There are an additional 199 sites where the location and sensitivity was not identified during the inventory.

Potential contaminant sources identified in the watershed that relate to agricultural/forest management include irrigated and non-irrigated crop areas, managed forest lands, animal grazing areas, boarding stables, confined animal feeding operations, farm machinery repair shops, and chemical mixing/storage/handling areas. Potential contaminant sources related to commercial and industrial land uses include parking lots/malls, fleet/trucking terminals, gas stations, body/repair shops, chemical processing/storage facilities, food processing facilities, junk/scrap/salvage yards, machine shops, metal plating/finishing/fabrication shops, wood/pulp/paper processing facilities, and other manufacturing land uses. The potential contaminant sources identified in the watershed that relate to residential/municipalities include high density housing areas, a landfill, rural homesteads with septic systems, campgrounds, parks, golf courses, waste transfer/recycling stations, utility stations, and wastewater treatment plants. In addition, several major transportation corridors and bridges, storm water retention basins/outfalls, channel alteration areas, transmission line right-of-ways, and substations were located with the drinking water protection area.

Of the potential sources of contamination identified in the OC-SFWB, NCCWC, and CRW's portion of the protection area, 961 pose a relatively higher to moderate risk to the drinking water supply. This provides a quick look at the existing potential sources of contamination that could, if improperly managed or released, impact the water quality in the watershed. The susceptibility analysis combines the results of the locations of the potential contaminant sources with the locations of the sensitive areas. Overlaying the locations of the moderate- to high-risk sources within the sensitive areas provides an indication of the areas that are highly susceptible to contamination. In the OC-SFWB, NCCWC, and CRW portion of the watershed, the results of the susceptibility "analysis" include the distribution of 445 identified high- to moderate-risk sources within the areas of highly permeable soils, high erosional soils, high runoff potential soils, and within the 1000' setback from the streams. There are an additional 196 high to moderate risk sites with unknown location and sensitivity. The susceptibility analysis provides the community and the public water system with information on where the greatest risk occurs and where to focus resources for protection of this valuable drinking water resource.

Introduction

In 1996, Congress amended the Safe Drinking Water Act, implemented some new requirements, and provided resources for state agencies to assist communities in protecting the sources of their public water supplies. The US Environmental Protection Agency (EPA) developed guidelines for implementing the new requirements to conduct "source water assessments" (EPA, 1997). In Oregon, the Oregon Department of Human Services (DHS) and the Department of Environmental Quality (DEQ) are conducting the source water assessments. An assessment such as this one will be done for every public water system in Oregon regulated by the Safe Drinking Water Act. DEQ and DHS will each have specific tasks in accomplishing the assessments for a total of 2656 public water systems in Oregon. Of those 2656 public water systems, about 90% of these are groundwater systems drawing water from wells or springs, and 10% are surface water systems with intakes on streams, rivers, or lakes/reservoirs.

The assessments in Oregon include delineating the source area supplying the public water system, identifying areas "sensitive" to contamination, and conducting an inventory of potential contamination sources in the area. Using the results of the inventory and sensitive areas, the susceptibility of the public water system is determined. DHS will provide the delineation for all groundwater systems and the identification of the sensitive areas within their source area. DEQ will delineate and identify the sensitive areas within the watersheds for the surface water systems. DEQ will conduct all inventories of the potential contaminant sources inside the drinking water protection areas and this is then used to estimate the public water system's susceptibility to contamination.

Sources of information reviewed during this assessment included U.S. Geological Survey (U.S.G.S.) documents/websites, DEQ reports, EPA/DEQ databases, and other readily accessible reports. The reference list provides a few of the good sources of information used in the report. Time constraints do not allow research into all existing technical resources available for each system. As the assessment is performed, assistance from municipal water staff, state/federal land management officials, and community members will increase DHS and DEQ's abilities to characterize local hydrogeologic/hydrologic conditions, site-specific information, and ultimately increase the quality of the assessment. Where possible, DEQ staff has consulted local Natural Resource Conservation Service, county planning agencies, irrigation districts, and other natural resource officials.

Many watersheds in Oregon provide water used for public or "domestic" drinking water supplies, irrigation, industry, hydro power, fish hatcheries, and of course, natural in-stream fish rearing. Watersheds vary considerably in terms of overall health and susceptibility to contamination. Most surface water sources for drinking water are filtered and undergo treatment (disinfection) prior to delivery to the consumer. The ability to adequately (and cost-effectively) treat drinking water from a surface water source is directly related to the quality of the water at the intake. Surface water intakes for public water supplies are generally very susceptible to increases in coarse sediments. Treatment facilities for public water supplies are very susceptible to increases in fine sediments, nutrients and other organic and inorganic contaminants. Treatment facilities are also negatively impacted by changes in temperature.

Changes in surface water quality parameters can be caused by a variety of factors in any watershed. Detailed consideration of all the variables was beyond the scope of this assessment. The procedures for conducting these assessments were developed by a statewide advisory

committee (Source Water Assessment Plan, 1999). The value of preparing detailed procedures is in the ability to be consistent from one system to the next. There are also severe time constraints for the amount of time allowed to complete each public water system assessment. It is our intent to provide as much information about the watershed as our program resources allow.

Using the results of this assessment, the public water system and the local community can then move forward with voluntarily developing and implementing a *drinking water protection plan*. The requirements for water quality monitoring of public water systems in Oregon provide some degree of assurance of safe drinking water; however, all systems are vulnerable to potential contamination. One of the best ways to ensure safe drinking water and minimize future treatment costs is to develop a local plan designed to protect against potential contamination. Not only will this measure add a margin of safety, it will raise awareness in the local community of the risks of drinking water contamination, and provide information to them about how they can help protect the system. It is our hope that each community will use the assessment results as a basis for developing a drinking water protection plan.

Background

OC-SFWB, NCCWC, and CRW are located in Clackamas County, Oregon. Combined, the water providers serve approximately 90,000 customers in the southeastern portion of the Portland metropolitan area. The drinking water for the OC-SFWB, NCCWC, and CRW is supplied by three individual intakes on the Clackamas River. The intakes are located in the Lower Clackamas River Watershed in the Clackamas Sub-Basin in the Willamette Basin, Hydrologic Unit Code (HUC) # 17090011. DEQ obtained the coordinates for the intakes using a Geographic Positioning System (GPS) in February 1999; these coordinates are available to the public water system operators upon request

The study area for evaluating the extent of the OC-SFWB, NCCWC, and CRW Drinking Water Protection Area (DWPA) includes US Geological Survey topographic maps for the Gladstone, (1984), Damascus (1984), Sandy (1985), Bull Run (1985), Brightwood (1990), Hickman Butte (1980), Rhododendron (1980), High Rock (1985), Three Lynx (1985), Bedford Point (1986), Elwood (1986), Colton (1985), Molalla (1985), Steins Pillar (1985), Cherryville (1985), Estacada (1985), Redland (1985), and Oregon City (1985) quadrangles at the 1:24,000 scale. The surface water intakes plot on the U.S. Geological Survey Gladstone quadrangle topographic map.

Overall, the Clackamas Sub-Basin drains approximately 935 square miles of the northeastern section of the Willamette Basin (USGS). For more than half of its length, the Clackamas River flows through forested areas with very rugged terrain. The lower reaches flow through agricultural areas and then densely developed areas. The Clackamas begins on the slopes of Olallie Butte, a High Cascade volcano. The river flows 83 miles from its headwaters (elevation 6,000 feet) to its confluence with the Willamette River near Gladstone and Oregon City (elevation 12 feet)(Metro, 1997). Throughout this watershed, numerous small streams and tributary rivers feed the waters of the Clackamas including Rock Creek, Clear Creek, Eagle Creek, North Fork Clackamas River, Roaring River, Oak Grove Fork Clackamas River, Middle Clackamas River, Upper Clackamas River, Collawash River, Hot Springs Fork Collawash River, Fish Creek, and South Fork Clackamas River.

The climate in the Clackamas Sub-Basin area is characterized by moderate annual temperature and precipitation variations. Information on climate in the OC-SFWB, NCCWC, and CRW drinking water protection area is based on the National Oceanic and Atmospheric Administration's (NOAA) Oregon City, Eagle Creek and Estacada climate stations (Western Regional Climate Center) which are located at elevations of 170, 410 and 930 feet above mean sea level, respectively. The average annual temperature is 52 to 54 degrees for the Oregon City and Estacada stations (temperature data is not available for the Eagle Creek station). The summers are dry and moderately warm to hot, with temperature highs of approximately 75 to 85 degrees. Winters are cool and wet, with temperatures usually staying above freezing. Average annual precipitation is about 47 inches at the Oregon City station, 60 inches at the Estacada station, 62 inches at the Eagle Creek station with approximately 65% of that occurring between November and March. The climate stations get an average of almost 4.4 inches (Oregon City) to 6 inches (Estacada) of total snowfall per year but have no measurable snow accumulation during the winter months.

Delineation of the Protection Area

Methodology

The delineation of the source area or the "drinking water protection area" is a fundamental aspect of the assessment of a public water system. For surface water systems such as OC-SFWB, NCCWC, and CRW's, the drinking water protection area delineation process begins by identifying the *watershed*. The watershed area is also called the *catchment basin* of a receiving water body. The outer boundary of this watershed is the drainage divide formed by the surrounding ridges and hills. The surface water delineation includes the entire watershed area upstream of the public water system intake structure. This watershed area provides "source" water to the surface water intake.

For surface water systems that encompass an area greater than 100 square miles, such as OC-SFWB, NCCWC, and CRW's, DEQ has also estimated the area within an 8-hour time of travel from the intake. The 8-hour time of travel distance was estimated using US Environmental Protection Agency (EPA) Reach File (RF1) streamflow data for specific segments of streams (US EPA, 1998). The EPA data set contains arcs depicting streams and waterbodies shown on 1:500,000 NOAA aeronautical charts and the attributes for those features. Streamflow data were developed using the EPA Storage and Retrieval database (STORET) and most streamflow information in this data set are estimates. For estimating the 8-hour time of travel distance, DEQ used EPA's "MNVELO" attribute which provides a calculated stream velocity in the reach at mean flow. For purposes of this assessment, the 8-hour time of travel is calculated only for the reach segment of the intake.

A map of the drinking water protection area provides the community with the knowledge of the geographic area providing the water to the intake. The 8-hour time of travel area is provided as a planning tool for the community since eight hours should provide adequate response time to protect the integrity of the public water system intake after a spill or release at any crossing or discharge point to the stream. This area within an 8-hour time of travel from the intake is the area where contamination poses the greatest threat to the drinking water supply. However, potential risks to the water supply can exist throughout the watershed. This is the area where contamination poses the greatest threat to the drinking water supply. Information about the

drinking water protection area allows the community to develop management strategies that will have the most impact on protecting the source of the drinking water.

Results

DEQ has collected and reviewed data for the purpose of delineating the drinking water protection area for OC-SFWB, NCCWC, and CRW's intakes on the Clackamas River. The scope of work for this report included collecting information from the water system operator, researching written reports, estimating the 8-hour time of travel distance from the intake, and establishing a Geographic Information Systems (GIS) basemap of the delineated watershed.

There are a total of six water providers in the Clackamas Sub-basin. The intake for Lake Oswego Municipal Water is located downstream of the OC-SFWB intake and the intakes for the City of Estacada and the US Forest Service (USFS) Timberlake Job Corps Center are located upstream of the CRW intake. For watersheds with more than one drinking water intake, Oregon completes the assessments by segment and each source water assessment represents the area from the public water system's intake to the next intake upstream. The SFWB, NCCWC, and CRW water systems agreed to collaborate and conduct one Source Water Assessment for the area upstream of their intakes between the OC-SFWB intake and the Estacada intake. The drinking water protection areas within the Clackamas Sub-basin are presented in Figure 1.

This assessment addresses the geographic area providing water to OC-SFWB, NCCWC, and CRW's intakes (SFWB, NCCWC, and CRW's portion of the drinking water protection area) between the OC-SFWB intake and the upstream intake for Estacada. *This portion of the drinking water protection area is shown in Figure 2.* The delineation for the protection area upstream of the Estacada intake (including the area upstream of the USFS Timberlake JCC's intake) is presented in Appendix B.

OC-SFWB, NCCWC, and CRW's portion of the drinking water protection area extends upstream approximately 335 miles (approximately 1,130 miles including area upstream of the Estacada intake) in a southeasterly direction. The OC-SFWB, NCCWC, and CRW portion of the delineation encompasses a total area of 264 square miles (939 total square miles for the Clackamas watershed including the area upstream of the Estacada intake). Included in OC-SFWB, NCCWC, and CRW portion of the delineation are a number of tributaries to the Clackamas River including Rock Creek, Richardson Creek, Clear Creek, Eagle Creek, Deep Creek, Foster Creek, and Goose Creek as well as their tributaries. A summary of the cumulative river miles and watershed areas follows:

Summary of <u>Stream Miles</u> for Clackamas River Public Water Systems

PWS Number	PWS Name	Segment Area[1] (stream miles)	Cumulative Stream Miles[2] (miles)
4101093	USFS Timberlake JCC	127.5	127.5
4100279	City of Estacada	666.1	793.6
4100187	Clackamas River Water	329.3	1122.9
4100580	Oak Lodge Water District	1.6	1124.5
4100591	Oregon City - South Fork Water Board	4.0	1128.5
4100457	Lake Oswego Municipal Water	0.8	1129.3

Summary of Watershed Areas for Clackamas River Public Water Systems

PWS Number	PWS Name	Segment Area[1] (square miles)	Cumulative Watershed Area[2] (square miles)
4101093	USFS Timberlake JCC	131	131
4100279	City of Estacada	543	674
4100187	Clackamas River Water	261	935
4100580	Oak Lodge Water District	0.7	936
4100591	Oregon City - South Fork Water Board	2.4	938
4100457	Lake Oswego Municipal Water	0.8	939

Notes:
PWS – Public Water System

1. Stream miles or watershed area (drinking water protection area) between the PWS's intake and the next upstream intake.
2. Stream miles or watershed area (drinking water protection area) between the PWS's intake and the top of the watershed. Includes "segment areas" for upstream intakes.

Based on the EPA Reach File data, the mean velocity for the segment of the Clackamas River where OC-SFWB, NCCWC, and CRW's intakes are located is 2.62 feet/second, which is used to calculate an estimate of 14.3 miles traveled in an 8-hour period. This distance is shown on Figures 1 and 2 as the approximate 8-hour time of travel to the intake.

The intakes for OC-SFWB, NCCWC, and CRW are located at an approximate elevation of 30 to 40 feet as Clackamas River flows into the valley floor from the Cascade Range. The upper edge of the OC-SFWB, NCCWC, and CRWportion of the delineated protection area is located at an elevation of approximately 4,650 feet near Squaw Mountain. The headwaters of the Clackamas River are around Timothy Lake and Ollalie Butte with an elevation high of 7,200 at Ollalie Butte; therefore, the elevation change from the upper edge of the watershed to the intake is approximately 7,200 feet.

Since the drinking water intake for Lake Oswego Municipal Water is located on the Clackamas River downstream of OC-SFWB's intake, activities and impacts in the OC-SFWB, NCCWC, and CRW protection area have the potential to also impact this downstream user.

Identification of Sensitive Areas

Methodology

After delineating the entire watershed, DEQ identified the "sensitive areas" within the watershed. *The objective in determining the sensitive areas for surface water sources is to produce reliable information to the community and public water system that is useful in developing and prioritizing protection strategies*. The list of the sensitive areas to be identified within drinking water watersheds was defined by the DEQ advisory committee as the procedures were developed (SWAP, 1999). The sensitive areas within a drinking water watershed includes both setbacks (land adjacent to stream) and other natural factors that increase the risk of contamination of the surface water. The result is an identification of a subset of the entire watershed. *The sensitive areas are those where potential contamination sources or land use activities, if present, have a greater potential to impact the water supply.*

In establishing sensitive areas in a watershed, there are several limiting factors to take into account. In using a Geographic Information System (GIS) to delineate the sensitive areas within the watershed, DEQ locates existing GIS layers and other natural resource agency data sets. Not all areas of the state have been mapped for the natural resource parameters of interest or at the level of detail ideal for this type of analysis. The availability of data at appropriate scales is also a potential limitation. The sensitive area mapping may be limited simply by the lack of readily available data, and conducting additional research is not possible within the time frame allowed to do this assessment. DEQ staff has sought to obtain the best available information for each water system as the source water assessment was performed.

There are four individual characteristics that determine the sensitivity of areas within the drinking water watersheds in the Source Water Assessment Plan (1999) procedures for Oregon water systems. A brief description of the sensitive area characteristics and the sources of the GIS data are included below.

Sensitive Area Setbacks

The first sensitive area is a setback using a consistent 1000' (about 300 meters) distance from the water body. The 1000' sensitive area setbacks are intended to identify those areas where there are higher risks of contamination by spills or other releases, simply due to their proximity to the water body. The sensitive area setbacks are identified as a minimum of 1000' from centerline of the intake stream and all perennial tributaries within the delineated drinking water watershed. The distance of 1000’ was based on EPA national guidance for the distance to conduct the potential contamination source inventories adjacent to streams.

High Soil Erosion Potential

The soil erosion potential *for non-forest service lands* is determined by combining the effects of slope and the soil erodibility factor ("K-factor"). Slopes within a watershed are evaluated using the 1:24,000 SSURGO (Soil Survey Geographic Database) data sets from the *Natural Resources Conservation Service*. The slope for a map unit is a weighted average of the average slope. The soil erodibility factor is also available in the SSURGO database and quantifies the susceptibility of soil particles to detachment and movement by water including the effects of rainfall, runoff, and infiltration. The K-factor used is a weighted average of only the value for the surface layer of the map unit. In the watershed, only soils with "high" erodibility ratings were mapped as sensitive

areas. Soils that classify as "high" include soil with slopes greater than 30% and K-factors greater than 0.25. This rating system is based on the *Revised Universal Soil Loss Equation* from the USDA Agricultural Research Service as defined in the Washington's Standard Methodology for Conducting Watershed Analysis (Washington Forest Practices Board, 1993).

Soil Resource Inventory (SRI) information from the US Forest Service was used for Mount Hood National Forest lands. The SRI data does not provide a soil-erodibility factor that is comparable to SSURGO data. Therefore, the Sedimentation Yield Potential (which is used as a surrogate for the combination of slope and K Factor) is used. The SRI data provides this Sedimentation Yield Potential factor for "natural" conditions and for "accelerated" conditions (which assumes human disturbance on the soils such as logging or construction). DEQ used the “natural” conditions factor since this was more similar to the fields used from the SSURGO data.

High Permeability Soils

Soils identified in the *U.S. Geological Survey* geologic map of Oregon GIS layer (1:500,000 scale) as Recent Alluvial Deposits (Qal), Dune Sand (Qd) and Landslide and Debris Flow Deposits (Qls) are mapped as sensitive areas due to the high potential for groundwater recharge adjacent to the stream. Alluvial deposits, dune sand and landslide deposits are typically very high permeability soils. These areas may be very vulnerable to rapid infiltration of contaminants to groundwater and subsequent discharge to a stream or lake/reservoir.

High Runoff Potential

The potential for high runoff rates *for non-forest service lands* was evaluated using the 1:24,000 SSURGO (Soil Survey Geographic Database) data sets from the *Natural Resources Conservation Service*. Class D soils, which are defined as soils with very slow infiltration rates were mapped as sensitive areas within the boundaries of the drinking water protection area. Map units are assigned to hydrologic groups based on their majority component. A Class D soil is typified as clayey, has a high water table, or an impervious layer occurs at a shallow depth. Soils with these characteristics would have the potential for rapid runoff and subsequent transport of sediments and possible contaminants to the surface water body supplying the public water system.

Hydrologic soil group Soil Resource Inventory (SRI) information from the US Forest Service was used for Mount Hood National Forest lands. In some cases, the SRI data does not identify a dominant soil type. Where dominant soil types were not specified in the SRI data, DEQ assumed the most conservative soil type applies and used those areas that were classified as “Group D” (soils with slow infiltration rates) to identify areas sensitive to high runoff potential.

Additional Sensitive Areas

There may be other natural characteristics within a watershed that can be mapped as sensitive. Modifying the list of sensitive areas in this assessment can be done by the public water system or the community by identifying resources and procedures that are appropriate for the individual system. For example, the local community may choose to add “transient snow zones”, high rainfall areas, and landslide/debris-flow hazards to the sensitive areas within their watershed. Due to time constraints, these additional areas

will not be mapped by DEQ as part of this source water assessment, but can be added by the local community before developing a protection plan.

Transient snow zones are typically defined as areas above 1500 feet in the Oregon Coast Range, or above 2000 feet in the Cascades. In some watersheds, these areas may be subject to rapid snowmelt or rain-on-snow events which increase the likelihood of transport of sediments to the surface water bodies in the watershed. Areas of high rainfall or irrigation rates may increase the likelihood of transport of sediments and possible contaminants to the surface water body. These areas can be identified using average annual precipitation data from Oregon Climate Service (years 1961 through 1990) and irrigation/water rights data from Oregon Water Resources Department's water rights database. Mapping the high risk landslide and debris-flow areas can also be useful for evaluating sediment risks from natural hazards within a drinking water watershed. The Department of Forestry has recently completed GIS-based landslide and debris flow maps for western Oregon (Website address: http://www.odf.state.or.us/gis/debris.html).

The final watershed map for each public water system intake includes a composite of all sensitive areas identified by DEQ within the watershed. This composite or overlay will enable the communities and responsible agencies to focus future protection efforts in these sensitive areas.

Results

The sensitive areas within the OC-SFWB, NCCWC, and CRW's portion of the drinking water protection area are shown on Figure 3. Maps of the sensitive areas in the drinking water protection area upstream of the City of Estacada and USFS Timberlake JCC intakes are provided in Attachment B. These include the setbacks from Clackamas River and all perennial tributaries, areas of high soil permeability along the Clackamas River and Clear Creek, areas of high soil erosion potential and high runoff potential throughout the watershed. Good data coverage was available for the OC-SFWB, NCCWC, and CRW watershed for each of the sensitive areas.

Inventory of Potential Contaminant Sources

Methodology

The primary intent of an inventory is to identify and locate significant potential sources of any of the contaminants of concern within the drinking water protection area. Significant potential sources of contamination can be defined as any facility or activity that stores, uses, or produces the contaminants of concern and has a sufficient likelihood of releasing such contaminants to the environment at levels that could contribute significantly to the concentration of these contaminants in the source waters of the public water supply. An inventory is a very valuable tool for the local community in that it:

- provides information on the locations of potential contaminant sources, especially those that present the greatest risks to the water supply,
- provides an effective means of educating the local public about potential problems,
- provides valuable awareness to those that own or operate facilities and land use activities in the drinking water protection area, and
- provides a reliable basis for developing a local protection plan to reduce the risks to the water supply.

Inventories are focused primarily on the potential sources of contaminants regulated under the federal Safe Drinking Water Act. This includes contaminants with a maximum contaminant level (MCL), contaminants regulated under the Surface Water Treatment Rule, and the microorganism Cryptosporidium. The inventory was designed to identify several categories of potential sources of contaminants including micro-organisms (i.e., viruses, Giardia lamblia, Cryptosporidium, and fecal bacteria); inorganic compounds (i.e., nitrates and metals); organic compounds (i.e., solvents, petroleum compounds and pesticides) and turbidity/sediments. Contaminants can reach a water body (groundwater, rivers, lakes, etc.) from activities occurring on the land surface or below it. Contaminant releases to water bodies can also occur on an area-wide basis or from a single point source.

When identifying potential risks to a public water supply, it is necessary to make "worst-case" assumptions. This is important because it is the POTENTIAL risk that we are attempting to determine through this procedure and it is simply not possible within our time constraints to conduct individual reviews or inspections at any of the facilities or land uses. The worst-case assumption that is made when considering potential risks to water bodies is that the facility or activity is not employing good management practices or pollution prevention. Under today's regulatory standards and environmental awareness, the majority of the identified activities and land uses employ "best management practices" (BMPs) in handling contaminants or preventing water quality degradation from their operations. It is important to note that while this assessment will list all POTENTIAL risks, many of these do not present actual risks to the water system. Environmental contamination is not likely to occur when contaminants are handled and used properly, or when BMPs are employed. The day-to-day operating practices and environmental (contamination) awareness varies considerably from one facility or land use activity to another. In-depth analysis or research was not completed to assess each specific source's compliance status with local, state and/or federal programs or laws. Further, the inventory process did not include an attempt to identify unique contamination risks at individual sites such as facilities (permitted or not) that do not safely store potentially hazardous

materials. After the assessment is completed, the next step is to conduct an "enhanced" inventory that will look at the site-specific practices. The potential sources listed in the assessment that employ BMPs (required through regulations OR voluntarily) can be removed from the list during the next step in the process of developing a voluntary drinking water protection plan.

Assumptions are also made about what potential contamination sources are included in the various types of land uses. For example, it is assumed that rural residences associated with farming operations have specific potential contamination sources such as fuel storage, chemical storage and mixing areas, and machinery repair shops. Again, any errors in these assumptions can be easily corrected as the community moves beyond the assessment to develop a protection plan.

Past, current, and possible future potential sources of contaminants were identified through a variety of methods and resources. The identification of potential contaminant sources was conducted by public water system staff and volunteers from the Clackamas Basin Watershed Council in accordance with Oregon Source Water Assessment Plan methods which are detailed below. The process for completing the inventory for OC-SFWB, NCCWC, and CRW's portion of the drinking water protection area included several steps, which are summarized as follows:

1. Conducted a windshield survey by driving through the drinking water protection area to field locate and verify as many as possible of the potential contaminant source activities. The inventory looked for potential contaminant sources within four general categories of land use: residential/municipal, commercial/industrial, agricultural/forest, and other land uses (see Table 1).
2. Interviewed public water system officials and others knowledgeable of the area to identify potential sources that are not listed elsewhere (i.e. historic sites).
3. Assigned high-, moderate-, or low-risk ratings to each potential contaminant source based on the Oregon Source Water Assessment Plan (1999). A summary of the types of potential contaminant sources and level of assigned risk is presented in Table 1 (Summary of Potential Contaminant Sources by Land Use). A summary of the possible water quality impacts for each potential contaminant source is provided in Table 2. The "comments" section of Table 3 (Inventory Results- List of Potential Contaminant Sources) provides justification for any modifications to the risk rating that may have resulted from field observations that were different from what is typically expected for the specific facility. Relative risk ratings are considered an effective way for the water supply officials and community to prioritize management efforts for the drinking water protection area. When the local water supply officials and community "team" enhance the inventory for use in developing management options, further analysis may need to be conducted to more closely evaluate the actual level of risk.
4. Produced final summary of the inventoried sources and the GIS base map, which are presented in this report.

In most Oregon source water assessments, DEQ attempts to identify if potential contaminant sources are listed as regulated facilities (for example, if the source is on DEQ's Underground Storage Tank (UST) list, cleanup database (ECSI), State Fire Marshall's list, etc.). DEQ generally reviews the list of regulated facilities and links them to potential contaminant sources identified during the windshield survey. Due to DEQ's limited resources, the large size of the protection area, and the number of potential sources of contamination sources identified during

the field survey, state and federal regulatory databases were not evaluated for this assessment. Adding the regulatory database information is not required and the information collected by OC-SFWB, NCCWC, CRW, and the Clackamas River Basin Watershed Council field survey is more than sufficient for evaluating the potential sources of contamination within the watershed.

Results

The inventory results for the OC-SFWB, NCCWC, and CRW portion of the protection area are summarized in Tables 1 through 4 and are shown on Figure 4. Maps and tables detailing potential sources of contamination in the drinking water protection area upstream of the City of Estacada and USFS Timberlake JCC intake are presented in Appendix B of this assessment.

The delineated drinking water protection area is occupied by multiple land uses. A total of 1,127 potential contamination sources were identified within OC-SFWB, NCCWC, and CRW's portion of the drinking water protection area. An additional 51 potential sources of contamination were identified upstream of the Estacada intake. Because of the large size of the drinking water protection area above Estacada and DEQ's limited resources, Estacada's inventory was limited to the lower portion of the watershed along the main-stem Clackamas River. The Upper Clackamas sub-basin (upstream of the mouth of the Collawash river) and the Collawash river sub-basins were not surveyed for potential contaminant sources.

Of the sources identified in the OC-SFWB, NCCWC, and CRW's portion of the protection area, 533 are located in the sensitive areas. There are an additional 199 sites (reference numbers 929 through 1127) where the location and sensitivity was not identified during the inventory. A summary of the total number of each potential contaminant source type identified is presented in Table 1. Table 3 presents details on each potential contaminant source. The coordinates of each potential source of contamination in the Universal Transverse Mercator (UTM) Zone 10, NAD27 projection system is provided in Table 4. The coordinates can be used in conjunction with Figure 4 to estimate the location of each potential contaminant source. In addition, a summary linking potential contaminant sources to sub-watershed is provided as follows:

Summary of OC-SFWB, NCCWC and CRW Inventory Results by Sub-Watershed

Sub-Watershed	Reference Numbers (as identified in Table 3 and Table 4)
Oregon City – SFWB (area between OC intake and NCCWC intake)	1-14
NCCWC (area between NCCWC intake and CRW intake)	15-46
Lower Main Stem Clackamas River	47-272
Clear Creek	273-364
Foster Creek	365-369
Rock Creek	370-412
Richardson Creek	413-425
Goose Creek	426-443
Deep Creek	444-845
Eagle Creek	846-928
Unmapped points (located throughout the protection area – no field mapping was completed for these potential sources)	929-1127

Potential contaminant sources identified in the watershed include but are not limited to the following:

Agricultural Management. Irrigated and non-irrigated crop areas, managed forest lands, animal grazing areas, boarding stables, confined animal feeding operations, farm machinery repair shops, and chemical mixing/storage/handling areas.

Commercial/Industrial. Parking lots/malls, fleet/trucking terminals, gas stations, body/repair shops, chemical processing/storage facilities, food processing facilities, junk/scrap/salvage yards, machine shops, metal plating/finishing/fabrication shops, wood/pulp/paper processing facilities, and other manufacturing land uses

Residential/Municipal. High density housing areas, a landfill, rural homesteads with septic systems, campgrounds, parks, golf courses, waste transfer/recycling stations, utility stations, and wastewater treatment plants.

Miscellaneous. Several major transportation corridors and bridges, storm water retention basins/outfalls, channel alteration areas, transmission line right-of-ways, and substations.

Of the potential sources of contamination identified in the OC-SFWB, NCCWC, and CRW's portion of the protection area, 961 pose a relatively higher to moderate risk to the drinking water supply. This provides a quick look at the existing potential sources of contamination that could, if improperly managed or released, impact the water quality in the watershed.

Susceptibility Analysis

Methodology

Susceptibility can be defined as the potential for contamination in the drinking water protection area to reach the intake on the surface water body being used by a public water system for drinking water purposes. Whether or not a particular drinking water source becomes contaminated depends on three major factors: 1) the occurrence of a facility or land use that releases contamination, 2) the location of the release, and 3) the hydrologic and/or soil characteristics in the watershed that allow the transport of the contaminants to the surface water body.

In conducting a susceptibility analysis the first step is identifying that part of the watershed that is most sensitive to contamination. This was accomplished after the delineation phase of this assessment. The second step consists of identifying and locating the potential contaminant sources in the drinking water protection area. Based on the type of facility and the nature of the chemicals they use, these sources represent a lower-, moderate-, or higher-relative risk to the surface water body. This step was accomplished in the inventory phase of the assessment.

The third step in the susceptibility analysis is to overlay the results of the inventory with the map of the sensitive areas. The results of the inventory are analyzed in terms of current, past, and future land uses; their time-of-travel relationship or proximity to the intake site; and their

associated risk rating. In general, land uses that are closest to the intake and those with the highest risk rating pose the greatest threat to a drinking water supply. The presence and locations of the potential contamination sources within the sensitive areas will determine where the water system has the highest susceptibility to contamination. The susceptibility analysis cannot predict when or if contamination will actually occur, but it does recognize conditions that are highly favorable for contamination to occur. If a contaminant release to soils or water should occur in a sensitive area, it is very likely that contamination of the surface water body would occur if remedial actions are not undertaken.

When several high or moderate risk sources are located within the sensitive areas, the public water system may also be said to have a high overall susceptibility to contamination. If a public water system's drinking water source is determined to be of high susceptibility, it is recommended that the system identify those condition(s) that lead to the high susceptibility and take steps to protect the resource (e.g., reducing soil erosion, or working directly with facility operators to implement sound management practices, etc.). Water systems with a low susceptibility should consider all identified factors that could lead to higher susceptibility in the future and take action to prepare a strategy to protect the resource in the future.

Results

The results of the potential contamination source inventory are combined with the locations of the sensitive areas to determine the most susceptible areas within OC-SFWB, NCCWC, and CRW's portion of the drinking water watershed. The total number of sources within the sensitive areas are summarized as follows:

Summary of OC-SFWB, NCCWC and CRW Susceptibility Analysis

	Within Sensitive Areas of DWPA	Not in Sensitive Areas of DWPA	Total **Within** DWPA (not including sources with unknown location)	Unknown Locations and Sensitivity	Outside of DWPA	Total PCSs Identified
Total Number of **High and Moderate** Risk PCSs	445	290	735	196	30	961
Higher Risk PCSs Identified	345	242	587	98	25	710
Moderate Risk PCSs Identified	100	48	148	98	5	251
Lower Risk PCSs Identified	88	70	158	3	5	166
Total Potential Contamination Sources Identified	533	360	893	199	35	1,127

Notes:
PCSs - Potential Contamination Sources
DWPA – OC-SFWB, NCCWC, and CRW portion of the Drinking Water Protection Area

Overlaying the locations of the moderate- to high-risk sources with the sensitive areas provides an indication of the areas that are highly susceptible to contamination. The susceptibility analysis results are shown on Figure 4 (Source Water Assessment Results). *Where the moderate- to higher-risk sources fall within the sensitive areas are those areas most vulnerable to contamination.* In the OC-SFWB, NCCWC, and CRW portion of the watershed, it includes the distribution of the 533 identified sources within the areas of highly permeable soils, high erosional soils, high runoff potential soils, and within the 1000' setback from the streams. There are an additional 199 sites with unknown location and sensitivity. In general, potential contaminant sources within the sensitive areas in the lower watershed pose greater risk than those in the higher areas of the watershed. The susceptibility analysis provides the water system with information on where the greatest risk occurs and where to focus resources for protection.

When all of the assessments are completed in Oregon, DEQ will provide a second type of susceptibility analysis for the surface water systems, an "inter-system susceptibility" on a statewide basis. DEQ will develop a summary report describing how the OC-SFWB, NCCWC, and CRW watershed compares with other drinking water watersheds in the state. To normalize the results of the assessments, the total number of potential contamination sources will not be used. The density of the moderate- to higher-risk sources within the drinking water protection area and within the sensitive areas will be calculated. This comparison will be based upon the number and distribution of the potential contamination sources in the watersheds that serve as drinking water resources. The purpose is not to rank individual systems, but to provide general groupings of overall risk relative to other Oregon public water systems. This will enable state agencies to develop priorities for staffing and funding more detailed assessments and protection measures.

Summary and Recommendations

This assessment provides a basis for focusing limited resources within the community to protect the drinking water source. The delineation provides the community with information regarding the location of the land area that directly supplies the surface water intake, i.e., the drinking water protection area. The sensitive areas are those where potential contamination sources or land use activities, if present, have the greater potential to impact the water supply. When the sensitive area information is combined with the potential contaminant source inventory, the highly vulnerable areas are identified (referred to as a susceptibility analysis). These should become high priority areas to be addressed first with educational information, technical assistance, and focused outreach to landowners to encourage voluntary cooperation in protecting the water quality in this watershed.

This assessment provides a basis for informed decision-making regarding community planning. The delineation, inventory and susceptibility analysis provides the community with a significant amount of information regarding where their drinking water comes from and an identification of some of the potential risks to the quality of that source. For example, knowing the location and status of the source area allows the community's planning authority to potentially make informed decisions regarding proposed land uses that are compatible with both the drinking water resource and the vision of community growth embraced by the community. Educating the community citizens about the susceptibility and risks to your system enables more public involvement in any future decisions about the public water system.

The results of this Source Water Assessment and the recommendations based on the results are summarized below.

♦ Oregon City - South Fork Water Board, North Clackamas County Water Commission, and Clackamas River Water's public water system draws water from Clackamas River. The source of this water is within the Clackamas Sub-Basin of the Willamette Basin. OC-SFWB, NCCWC, and CRW's drinking water protection area extends approximately 335 miles (approximately 1,130 miles including area upstream of the Estacada intake) in a southeasterly direction. The OC-SFWB, NCCWC, and CRW portion of the delineation encompasses a total area of 264 square miles (939 total square miles including the area upstream of the Estacada intake). Included in this area are a number of tributaries to the main stem, including Rock, Richardson, Clear, Eagle, Deep, Foster, and Goose Creeks and their tributaries.

♦ It is recommended the OC-SFWB, NCCWC, and CRW water systems and communities consider increased protection within an 8-hour travel time from the intake (extending approximately 14.3 miles upstream of the OC-SFWB, NCCWC, and CRW intake) since eight hours should provide adequate response time to protect the integrity of the public water system intake should a spill or release occur at any crossing or discharge point to the stream.

♦ This source water assessment addresses the geographic area providing water to OC-SFWB, NCCWC, and CRW's intake (SFWB, NCCWC, and CRW's portion of the drinking water protection area) between OC-SFWB's intake and the upstream intake for Estacada. Information on OC-SFWB, NCCWC, and CRW's protection area upstream of the Estacada intake (including the area upstream of the USFS Timberlake JCC intake) is presented in the Source Water Assessment for those public water systems and is summarized in this report. In addition, the intake for Lake Oswego Municipal Water is located on the Clackamas River downstream of the OC-SFWB, NCCWC, and CRW intakes. Activities and impacts in the OC-SFWB, NCCWC, and CRW drinking water protection area have the potential to also impact downstream users.

♦ Within the OC-SFWB, NCCWC, and CRW portion of the drinking water protection area, there are large areas identified as sensitive to contamination. Areas that are adjacent to the streams/river, areas that have high soil erosion potential, high runoff potential, and high permeability should all receive special considerations for protection. These are some of the areas where the risk is greatest for existing **and future** potential sources of contamination impacting the water quality in the watershed. It is recommended that other natural conditions be considered and possibly added to the assessment results before proceeding with voluntary development of a drinking water protection plan.

There are also some highly-permeable soils adjacent to Clackamas River and Clear Creek that should be considered higher risk for groundwater contamination. These areas are very sensitive to any spills or release to soils because the contaminants could rapidly infiltrate into groundwater and discharge to Clackamas River. The community should take steps to evaluate current and future land use in areas of highly permeable soils. The facilities or land uses that have been identified either on or in close proximity to these soils should be informed of the sensitive nature of the area and encouraged to adopt best management practices designed to minimize the risk of a contaminant release.

♦ The susceptibility of the public drinking water system source depends on both the natural conditions in the watershed as well as the land uses and facilities operating in the watershed. The purpose of the susceptibility exercise is to identify those factors that may pose more of a risk than others within the community's drinking water protection area. It provides information with respect to facilities or land uses in the sensitive areas within the drinking water protection area that should be given greater priority in developing protection strategies. A review of the inventory and the sensitive areas indicates that the OC-SFWB, NCCWC, and CRW public water system has at least 445 high and moderate-risk sources within the sensitive areas in the watershed. It is highly recommended that the community "enhance" or refine the delineation of the sensitive areas and the identification of the potential contamination sources through further research and local input.

♦ Due to the streamlined procedures for conducting the source water assessments, the results could potentially create a misperception that the "human activities" within the watersheds are higher risks than natural conditions or disturbances such as landslides and storm events. For example, it would be erroneous for communities to conclude that their source water was not at risk from natural conditions that produce sediments such as landslides, even if there were no potential contamination sources identified within their watershed. It is recommended that the community take steps to ensure the natural conditions (both those identified in this assessment and any other additional areas identified by the community) within the watershed are considered when developing strategies for protection.

♦ Public water systems may be threatened by contamination already in the surface water. Many public water systems conduct routine tests for contamination in the raw water prior to treatment. It is highly recommended that such data be used to determine existing risks in the watershed. Collecting and analyzing this raw water data by DEQ or DHS has not been done and is beyond the scope of this assessment.

♦ This assessment provides a basis for dealing with future water quality work in the watershed. The delineation, inventory, and susceptibility analysis has been designed to serve as a strong foundation for further in-depth watershed assessments or water quality improvement efforts, such as Oregon's Total Maximum Daily Load (TMDL) plans.

♦ The primary intent of this source water assessment is to provide the background information for the community to use in developing a local Drinking Water Protection Plan. The OC-SFWB, NCCWC, and CRW and/or the public water system should assemble a team to assist in the development and implementation of a Drinking Water Protection Plan. Clean safe drinking water is fundamental to the viability of any community. Protecting the drinking water source is a wise and relatively inexpensive investment in the community's future. The next section will discuss this voluntary process.

Developing a Drinking Water Protection Plan

This Source Water Assessment (SWA) Report for your public water system is a compilation of the results of the delineation of the source area, identification of the sensitive areas, and an inventory of significant risks. The final product, the susceptibility analysis, provides the basis for prioritizing the areas in and around your community that need to be protected. As we discussed in the introduction, our hope is that the community will use the assessment as a basis for developing a "Drinking Water Protection Plan".

The process for developing a complete Drinking Water Protection Plan can be summarized as follows:

ASSESSMENT PHASE (Source Water Assessment Report performed by DEQ and DHS)

1. Delineate the area that serves as the source of the public water supply ("drinking water protection area" for groundwater wells or surface water intakes)
2. Inventory the potential risks or sources of contamination
3. Determine the areas most susceptible to contamination

PROTECTION PHASE (performed by community)

4. Assemble a local Drinking Water Protection Team
5. Enhance the Source Water Assessment
6. Develop a plan to protect the supply (reduce the risks of contamination)
7. Develop a contingency plan to address the potential loss of the system
8. Certify (optional) and implement the Drinking Water Protection Plan

As you know, the assessment phase work was funded by the federal Safe Drinking Water Act. The assessment is simply the first three steps of developing a protection plan for your public water supply. Developing a protection plan is voluntary.

Prior to moving into the protection phase, DEQ recommends the inventory presented in this document be reviewed in detail to clarify the presence, location, operational practices, actual risks, etc. of the identified facilities and land use activities. The SWA inventory should be regarded as a preliminary review of potential sources of contamination within the drinking water protection area. Resources within the community should be used to do an "enhanced inventory" to complete this preliminary list of potential sources of contamination.

It is also important to remember that not all of the inventoried activities will need to be addressed if you choose to develop a Drinking Water Protection Plan. When developing a protection plan, sources which pose little to no threat to your public water supply can be screened out. For example, if any of the land use activities are conducted in a manner that already significantly reduces the risk of a contamination release, the facility would not need to re-evaluate their practices based on drinking water protection "management". One of the goals of developing a Drinking Water Protection Plan based on the inventory results is to address those land use activities that do pose high or moderate risks to your public water supply. The community should target these facilities with greater levels of education and technical assistance to minimize the risk of contamination.

Limited technical assistance is available through both DEQ and DHS for communities that choose to move beyond the assessments and voluntarily develop a Drinking Water Protection Plan. Using the results of the assessment (and enhanced inventory), the local community can

form a "Drinking Water Protection Team" of community members and develop a plan to reduce the risks of contamination from those sources.

Forming a local team to help with the development of a protection plan is very important. Oregon's drinking water protection approach relies upon the concept of "community-based protection", as are many other water quality programs. Community-based protection simply refers to the concept of allowing local control and decision-making to implement the water quality protection effort. Community-based protection is successful only with significant local citizen and stakeholder involvement.

The primary advantage of community-based protection is that it links community needs to environmental needs. Any successful protection program will need to be flexible enough to allow the community to adopt the "tools" or elements that are most appropriate for them. Allowing this local control in making the changes necessary for improving water quality will accomplish two key elements of restoration and protection. Community-based protection can draw on the knowledge and successful adaptive practices of the local area. Landowners generally know best how to achieve water resource restoration and protection as long as a thorough explanation of the problem is provided, the objectives are defined, and some free technical assistance is provided. Secondly, knowing they have more local control, citizens will also be more likely to participate in the program and more willing to assist with the educational and outreach effort which will make the plan successful. We recommend that the protection plan be developed so as to *minimize any burdens on individual property owners, but maximize the equity in responsibility for reducing the risks of future contamination.*

Drinking water protection involves developing protection strategies for groundwater or surface water sources of public water supplies. There are many similarities between this program and other water quality protection programs, and it is essential that water quality efforts are coordinated and linked in each geographic area as much as possible. DEQ is committed to linking the drinking water protection efforts to other habitat and water quality improvement efforts for fish in Oregon, as well as the ongoing work to address Clean Water Act 303(d) water-quality-limited streams. One of the primary means of providing technical assistance is to give your community the information and coordination necessary to create these links. Other agencies will also be involved in providing technical assistance as protection plans are developed. For example, on farmlands, the Oregon Department of Agriculture will provide assistance as provided for under Senate Bill 1010. In developing recommendations for protecting the drinking water source area, your community can maximize the use of existing programs in Oregon that offer free technical assistance. Examples of such programs include:

- pollution prevention technical assistance from the Department of Environmental Quality,
- sanitary survey assistance from the Oregon Department of Human Services,
- household hazardous waste assistance from the Department of Environmental Quality,
- land use planning from the Department of Land Conservation and Development,
- agricultural water quality management plans Oregon Department of Agriculture,
- water conservation education from the Water Resources Department, or
- rural water quality outreach from the Oregon State University Extension Service.

Protecting the drinking water supply in a community can also be a very effective way to encourage all citizens to participate in an issue which directly affects everyone in that

community. This often leads to more public involvement in other significant local decisions concerning future livability issues (i.e., land use planning). In communities already developing and implementing Drinking Water Protection Plans, the process has served to bring many diverse interests together on a common goal and strengthened the local rural and urban relationships through communication and increased understanding. We must continue to do a better job in our outreach efforts to point out that we are all part of the existing water quality problems. The risks and sources of water quality problems are not only from industries, farmers, and managed forests, but every individual living, commuting and working in that area.

We encourage communities interested in developing Drinking Water Protection Plans to contact the DEQ or DHS resources listed below:

For technical assistance with the monitoring and operation of your public water system:

Oregon Department of Human Services
Main Office - Portland Oregon
800 NE Oregon St., Room 611
PO Box 14450, Portland, OR 97293
(503) 731-4317
Fax (503) 731-4077

or:
Dennis Nelson, Groundwater Coordinator, (541) 726-2587
donelson@oregonvos.net
Oregon Department of Human Services
Springfield Field Office
442 A Street, Springfield, OR 97477
Fax (541) 726-2596

For technical assistance with developing plans to protect your public water system:

Department of Environmental Quality
Water Quality Division
811 SW 6th Avenue
Portland, OR 97204-1390
(503) 229-5630 Fax (503) 229-5408
Toll Free 1-800-452-4011

Surface Water - Sheree Stewart, (503) 229-5413
stewart.sheree@deq.state.or.us

Groundwater - Julie Harvey, (503) 229-5664
harvey.julie@deq.state.or.us

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Western Regional Climate Center, Oregon Climate Summaries. http://www.wrcc.dri.edu/summary/climsmor.html

*Please note that there are many other sources of information for Clackamas River and the Clackamas Sub -Basin. Conducting an exhaustive search of all data and technical reports was beyond the scope of this Source Water Assessment Report.

TABLE 1. SUMMARY OF POTENTIAL CONTAMINANT SOURCES BY LAND USE

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 - CLACKAMAS RIVER WATER - CLACKAMAS

Residential/Municipal Land Uses

Potential Contamination Source	Note	Relative Risk Level	Total in Lower DWPA[3]	Total in Full DWPA[4]
Airport - Maintenance/Fueling Area		Moderate	4	4
Apartments and Condominiums		Lower	6	7
Campgrounds/RV Parks	(1)	Moderate	5	18
Cemeteries - Pre-1945		Lower	7	7
Drinking Water Treatment Plants		Moderate	5	7
Fire Station		Lower	8	8
Fire Training Facilities		Moderate	1	1
Golf Courses		Moderate	6	6
Housing - High Density (> 1 House/0.5 acres)		Moderate	55	59
Landfill/Dumps	(1)	Higher	1	1
Lawn Care - Highly Maintained Areas		Moderate	33	33
Motor Pools		Moderate	1	2
Parks		Moderate	17	18
Railroad Yards/Maintenance/Fueling Areas		Higher	7	7
Schools		Moderate	14	15
Septic Systems - High Density (> 1 system/acre)	(1)	Moderate	13	13
Sewer Lines - Close Proximity to PWS	(1)	Moderate	1	2
Utility Stations - Maintenance Transformer Storage		Higher	17	19
Waste Transfer/Recycling Stations	(1)	Higher	6	6
Wastewater Treatment Plants/Collection Stations	(1)	Higher	4	8
Other: Land Disturbance - Recent Logging		Moderate	1	1
Other: Water or Wastewater Pump Station		Moderate	1	1
Other: Future Residential Land Use		Moderate	0	1

NOTES:
Sites and areas identified in this Table are only potential sources of contamination to the drinking water. Environmental contamination is not likely to occur when contaminants are used and managed properly.
(1) - Potential source of microbial contamination
(2) - Drip irrigated crops, such as vineyards and some vegetables, are considered lower risk than spray irrigation
(3) - "Lower DWPA" summarizes the total number of potential contaminant sources (PCSs) identified in the geographic area providing water to OC-SFWB, NCCWC, and CRW's intakes between the OC-SFWB intake and the upstream intake for Estacada.
(4) - "Full DWPA" summarizes all PCSs identified in the geographic area providing water to OC-SFWB, NCCWC, and CRW's intakes (including the PCSs identified in areas upstream of the Estacada intake and USFS Timberlake JCC's intakes).

TABLE 1. SUMMARY OF POTENTIAL CONTAMINANT SOURCES BY LAND USE

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS #4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 - CLACKAMAS RIVER WATER - CLACKAMAS

Commercial/Industrial Land Uses

Potential Contamination Source	Note	Relative Risk Level	Total in Lower DWPA[3]	Total in Full DWPA[4]
Automobiles - Body Shops		Moderate	15	15
Automobiles - Car Washes		Moderate	1	1
Automobiles - Gas Stations		Moderate	17	17
Automobiles - Repair Shops		Moderate	46	46
Boat Services/Repair/Refinishing		Higher	4	4
Cement/Concrete Plants		Moderate	8	8
Chemical/Petroleum Processing/Storage		Higher	28	28
Dry Cleaners		Moderate	1	1
Electrical/Electronic Manufacturing		Higher	0	0
Fleet/Trucking/Bus Terminals		Moderate	53	54
Food Processing		Moderate	16	16
Furniture/Lumber/Parts Stores		Moderate	14	15
Home Manufacturing		Higher	3	3
Junk/Scrap/Salvage Yards		Higher	50	53
Machine Shops		Higher	42	44
Medical/Vet Offices	(1)	Lower	8	8
Metal Plating/Finishing/Fabrication		Higher	29	29
Mines/Gravel Pits		Higher	10	10
Office Buildings/Complexes		Lower	26	27
Parking Lots/Malls (> 50 Spaces)		Higher	97	97
Photo Processing/Printing		Higher	11	11
Plastics/Synthetics Producer		Higher	4	4
Research Laboratories		Higher	0	0
RV/Mini Storage		Lower	5	5
Wood Preserving/Treating		Higher	2	2
Wood/Pulp/Paper Processing and Mills		Higher	10	10
Other:		Moderate	1	2
Other: Beverage Services		Lower	1	1
Other: Cabinet Makers		Moderate	1	1
Other: Cabinet Manufacturing		Moderate	3	3
Other: Cast Molding		Higher	1	1
Other: Ceramics Manufacturing		Higher	1	1
Other: Commercial & Industrial Coatings		Moderate	1	1
Other: Commercial Industrial Coatings		Moderate	2	2
Other: Concrete Cutting		Moderate	1	1
Other: Construction Company		Moderate	12	12

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TABLE 1. SUMMARY OF POTENTIAL CONTAMINANT SOURCES BY LAND USE

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS #4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 - CLACKAMAS RIVER WATER - CLACKAMAS

Commercial/Industrial Land Uses (cont.)

Potential Contamination Source	Note	Relative Risk Level	Total in Lower DWPA[3]	Total in Full DWPA[4]
Other: Equipment Rental		Moderate	1	1
Other: Future Urban Area - High Density		Moderate	1	1
Other: Glazing Contractors		Moderate	1	1
Other: Gun Club		Moderate	1	1
Other: Gun Shop		Lower	1	1
Other: Hazardous Chemicals Storage & Transfer		Higher	1	1
Other: Livestock Vitamins		Moderate	1	1
Other: Medical Equipment Manufacturing		Higher	3	3
Other: Miscellaneous Maintenance Shop		Moderate	1	1
Other: Miscellaneous Manufacturing		Lower	1	1
Other: Miscellaneous Manufacturing		Moderate	7	7
Other: Miscellaneous Vehicle Repair & Service		Higher	1	1
Other: Miscellaneous Vehicle Repair and Service		Moderate	3	3
Other: Mold & Die		Higher	1	1
Other: Mold and Die		Higher	1	1
Other: Optical Plastics		Moderate	1	1
Other: Paint Shop		Moderate	1	1
Other: Parts Distributor for Heavy Equipment		Moderate	1	1
Other: Paving Company		Moderate	1	1
Other: Restaurant & Tavern - parking lot packed gravel		Higher	1	1
Other: Retail Feed & Pet Supply		Lower	1	1
Other: Rural Market		Moderate	1	1
Other: Secondary Wood Products Industry		Moderate	1	1
Other: Shooting Range		Moderate	2	2
Other: Shopping Cart Repair		Moderate	1	1
Other: Street Sweeping & Stripping		Moderate	1	1
Other: Tanneries		Higher	1	1
Other: Unknown Operations - Industrial/Agricultural Processing -		Moderate	1	1
Other: Unmanaged Fields		Lower	1	1
Other: Wedding Site with Septic System and Parking Lots		Moderate	1	1
Other: Wholesaler of Exotic Bird Supplies		Moderate	1	1
Other: Fish Research		Moderate	1	1
Other: Unknown Business Type		Moderate	1	1
Other: Warehouse		Lower	1	1

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Agricultural/Forest Land Uses

Potential Contamination Source	Note	Relative Risk Level	Total in Lower DWPA[3]	Total in Full DWPA[4]
Auction Lots	(1)	Higher	0	0
Boarding Stables	(1)	Higher	36	36
Confined Animal Feeding Operations (CAFOs)	(1)	Higher	12	12
Crops - Irrigated (inc. orchards, vineyards, nurseries,	(2)	Higher	173	173
Crops - Nonirrigated (inc. Christmas trees, grains, grass seed,		Lower	200	200
Farm Machinery Repair		Moderate	33	33
Grazing Animals (> 5 large animals or equivalent/acre)	(1)	Higher	133	134
Lagoons/Liquid Wastes	(1)	Higher	3	3
Land Application Sites	(1)	Higher	4	4
Managed Forest Land - Broadcast Fertilized Areas		Lower	0	0
Managed Forest Land - Clearcut Harvest (< 35 yrs.)		Higher	32	37
Managed Forest Land - Partial Harvest (< 10 yrs.)		Higher	7	8
Managed Forest Land - Road Density (> 2 mi./sq. mi.)		Moderate	0	0
Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, &		Higher	22	24
Recent Burn Areas (< 10 yrs.)		Higher	1	1
Managed Forest Lands - Status Unknown		Higher	1	1
Other:		Moderate	1	1
Other:		Lower	0	1
Other: - Unknown Agriculture Operation		Moderate	1	1
Other: Abandoned Stock Nursey		Moderate	1	1
Other: Crops - Nonirrigated - Abandoned Christmas Trees		Lower	3	3
Other: Deciduous Woodland		Lower	1	1
Other: Feed Store		Lower	1	1
Other: Fish Hatchery		Higher	2	2
Other: Fish Hatchery		Moderate	1	1
Other: Former Christmas Tree Farm		Lower	1	1
Other: Land Clearing - No Erosion Control		Higher	1	1
Other: Managed Forest Lands 35+ yrs		Lower	1	1
Other: Meat / Game Processing Facility		Higher	1	1
Other: Old Farm Worker Housing		Moderate	1	1
Other: Pond		Moderate	1	1
Other: Poultry Slaughter House		Higher	2	2
Other: Poultry Slaughter House/Food Processing Facility		Higher	1	1

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Agricultural/Forest Land Uses (cont.)

Potential Contamination Source	Note	Relative Risk Level	Total in Lower DWPA[3]	Total in Full DWPA[4]
Other: Steep Slopes		Higher	1	1
Other: Stream		Higher	6	6
Other: Stream		Lower	3	3
Other: Stream		Moderate	7	7
Other: Transitional Timber Lands		Lower	6	6
Other: Unknown agricultural operation		Moderate	1	1
Other: Unmanaged Christmas trees		Lower	1	1
Other: Unmanaged Deciduous Forest Land		Lower	1	1
Other: Unmanaged Deciduous Forest Lands		Lower	7	7
Other: Unmanaged Deciduous Forest Lands & Stream		Lower	1	1
Other: Unmanaged Forest		Lower	1	1
Other: Unmanaged Forest Lands		Lower	9	9
Other: Wetland Area		Moderate	1	1
Other: Wetlands		Lower	6	6

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Miscellaneous Land Uses

Potential Contamination Source	Note	Relative Risk Level	Total in Lower DWPA[3]	Total in Full DWPA[4]
Above Ground Storage Tanks - Excluding Water		Moderate	10	13
Channel Alterations - Heavy		Higher	7	7
Combined Sewer Outfalls	(1)	Lower	0	0
Stormwater Outfalls	(1)	Higher	3	3
Composting Facilities	(1)	Higher	2	2
Historic Gas Stations		Higher	3	3
Historic Waste Dumps/Landfills	(1)	Higher	0	0
Homesteads - Rural - Machine Shops/Equipment Maintenance		Higher	31	31
Homesteads - Rural - Septic Systems (< 1/acre)	(1)(3)	Lower	181	181
Injection/Dry Wells, Sumps - Class V UICs	(1)	Higher	0	0
Kennels (> 20 Pens)	(1)	Moderate	7	7
Military Installations		Higher	1	1
Random Dump Sites		Higher	20	20
River Recreation - Heavy Use (inc. campgrounds)	(1)	Moderate	10	17
Sludge Disposal Areas	(1)	Higher	5	5
Stormwater Retention Basins	(1)	Higher	16	16
Transmission Lines - Right-of-Ways		Higher	21	24
Transportation - Freeways/State Highways/Other Heavy Use		Higher	28	29
Transportation - Railroads		Higher	7	7
Transportation - Right-Of-Ways - Herbicide Use Areas		Higher	1	1
Transportation - River Traffic - Heavy		Higher	5	5
Transportation - Stream Crossing - Perennial		Higher	61	62
UST - Confirmed Leaking Tanks - DEQ List		Moderate	2	2
UST - Decommissioned/Inactive		Lower	2	2
UST - Nonregulated Tanks (< 1,100 gals or Large Heating Oil		Higher	0	0
UST - Not Upgraded and/or Registered Tanks		Moderate	1	1
UST - Upgraded/Registered - Active		Lower	1	1
UST - Status Unknown		Moderate	12	12
Upstream Reservoirs/Dams		Moderate	8	10
Wells/Abandoned Wells		Moderate	3	3
Large Capacity Septic Systems (serves > 20 people) - Class V	(1)	Moderate	27	27
Construction/Demolition Areas		Higher	1	1
Other:		Higher	0	1
Other: 5 gallon storage containers on-site, contents unknown.		Moderate	1	1
Other: Culvert without Fish Barrier		Moderate	1	1

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Miscellaneous Land Uses (cont.)

Potential Contamination Source	Note	Relative Risk Level	Total in Lower DWPA[3]	Total in Full DWPA[4]
Other: Land Use Unknown		Moderate	1	1
Other: Pipeline Easement		Moderate	1	1
Other: Pond		Higher	2	2
Other: Pond		Lower	23	23
Other: Pond		Moderate	9	9
Other: Pond - Instream		Moderate	1	1
Other: Cell Phone Tower		Lower	1	1
Other: Culvert Storage		Lower	1	1
Other: Heliport serving Mt. Hood NF Sites		Moderate	0	1
Other: Power Boat/watercraft fueling area over water		Higher	0	1

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TABLE 2. POSSIBLE WATER QUALITY IMPACTS FOR POTENTIAL CONTAMINANT SOURCES

RESIDENTIAL / MUNICIPAL LAND USES				
DEQ PCS CODE	**TYPE OF ACTIVITY**	**POTENTIAL WATER QUALITY IMPACTS**	**Risk to GW**	**Risk to SW**
R01	Airport - Maintenance/Fueling Area	Spills, leaks, or improper handling of fuels, de-icers, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	H	M
R02	Apartments and Condominiums	Improper use, storage, and disposal of household and facility maintenance chemicals including cleaners, vehicle maintenance products, pool chemicals, pesticides and fertilizers may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	L	L
R03	Campgrounds/RV Parks	Leaks or spills of automotive fluids or improperly managed septic systems and wastewater disposal may impact drinking water supply. Heavy usage along edge of waterbody may contribute to erosion, causing turbidity.	L	M
R04	Cemeteries - Pre-1945	Embalming fluids (for example, arsenic) and decomposition by-products may impact drinking water supply.	M	L
R05	Drinking Water Treatment Plants	Treatment chemicals and equipment maintenance materials may impact groundwater or surface water source.	M	M
R06	Fire Station	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	L	L
R07	Fire Training Facilities	Improper use of fuels and other chemicals during fire training may impact the drinking water supply.	M	M
R08	Golf Courses	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	M	M
R09	Housing - High Density - > 1 House/0.5 Acres	Improper use, storage, and disposal of household chemicals including Cleaners, vehicle maintenance products, pool chemicals, pesticides and fertilizers may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	M	M
R10	Landfill/Dumps	Water percolating through the landfill waste material may transport contaminants to groundwater or surface water supply.	H	H
R11	Lawn Care - Highly Maintained Areas	Over-application or improper handling of pesicides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	M	M

TABLE 2. POSSIBLE WATER QUALITY IMPACTS FOR POTENTIAL CONTAMINANT SOURCES

DEQ PCS CODE	TYPE OF ACTIVITY	POTENTIAL WATER QUALITY IMPACTS	Risk to GW	Risk to SW
R12	Motor Pools	Spills, leaks, or improper handling of fuels and other chemicals from vehicle service and parking areas may impact the drinking water supply. Stormwater run-off or infliltration may carry contaminants to drinking water.	M	M
R13	Parks	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff. Heavy usage along edge of waterbody may contribute to erosion, causing turbidity.	M	M
R14	Railroad Yards/Maintenance/Fueling Areas	Spills, leaks, or improper handling of fuels and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	H	H
R15	Schools	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	L	M
R16	Septic Systems - High Density - > 1/Acre	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	H	M
R17	Sewer Lines - Close Proximity to PWS	If not properly designed, installed, and maintained, sewer lines can impact drinking water, especially adjacent to a waterbody or within the 2-year time-of-travel zone for drinking water wells.	H	M
R18	Utility Stations - Maintenance Transformer Storage	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	H	H
R19	Waste Transfer/Recycling Stations	Improper management of water contacting waste material may impact the drinking water supply.	M	H
R20	Wastewater Treatment Plants/Collection Stations	Improper management of wastewater, treatment chemicals, or equipment maintenance materials may impact drinking water supply.	M	H
R50	Others (List)	The impacts to this potential contaminant source will be addressed during the enhanced inventory.		

TABLE 2. POSSIBLE WATER QUALITY IMPACTS FOR POTENTIAL CONTAMINANT SOURCES

COMMERCIAL / INDUSTRIAL LAND USES				
DEQ PCS CODE	**TYPE OF ACTIVITY**	**POTENTIAL WATER QUALITY IMPACTS**	**Risk to GW**	**Risk to SW**
C01	Auto - Body Shops	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	H	M
C02	Auto - Car Washes	Improper management of vehicle wash water may result in soaps, oils, greases, and metals impacting the drinking water supply.	M	M
C03	Auto - Gas Stations	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	H	M
C04	Auto - Repair Shops	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	H	M
C05	Boat Services/Repair/Refinishing	Spills, leaks, or improper handling of fuels, septage, maintenance chemicals, sandblasting wastes, paints, and other materials during transportation, use, storage and disposal may impact the drinking water supply.	H	H
C06	Cement/Concrete Plants	Spills, leaks, or improper handling of chemicals and high turbidity wastewaters during transportation, use, storage and disposal may impact the drinking water supply.	M	M
C07	Chemical/Petroleum Processing/Storage	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	H	H
C08	Dry Cleaners	Spills, leaks, or improper handling of dry cleaning solvents and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	H	M
C09	Electrical/Electronic Manufacturing	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	H	M
C10	Fleet/Trucking/Bus Terminals	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	H	M
C11	Food Processing	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	M	M
C12	Furniture/Lumber/Parts Stores	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	M	M
C13	Home Manufacturing (modular)	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	H	H

TABLE 2. POSSIBLE WATER QUALITY IMPACTS FOR POTENTIAL CONTAMINANT SOURCES

DEQ PCS CODE	TYPE OF ACTIVITY	POTENTIAL WATER QUALITY IMPACTS	Risk to GW	Risk to SW
C14	Junk/Scrap/Salvage Yards	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	H	H
C15	Machine Shops	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	H	H
C16	Medical/Vet Offices	Spills, leaks, or improper handling of x-ray, biological, chemical, and radioactive wastes and other materials during transportation, use, storage and disposal may impact the drinking water supply.	M	L
C17	Metal Plating/Finishing/Fabrication	Spills, leaks, or improper handling of solvents and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	H	H
C18	Mines/Gravel Pits	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	H	H
C19	Office Buildings/Complexes	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	L	L
C20	Parking Lots/Malls - > 50 Spaces	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	H	H
C21	Photo Processing/Printing	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	H	H
C22	Plastic/Synthetics Producer	Spills, leaks, or improper handling of solvents and resins during transportation, use, storage and disposal may impact the drinking water supply.	H	H
C23	Research Laboratories	Spills, leaks, or improper handling of laboratory chemicals and wastes during transportation, use, storage and disposal may impact the drinking water supply.	H	H
C24	RV/Mini Storage	Spills, leaks, or improper handling of automotive fluids and other materials during transportation, storage and disposal may impact the drinking water supply.	L	L
C25	Wood/Pulp/Paper Processing and Mills	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	H	H
C26	Wood Preserving/Treating	Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	H	H
C50	Others (List)	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.		

TABLE 2. POSSIBLE WATER QUALITY IMPACTS FOR POTENTIAL CONTAMINANT SOURCES

AGRICULTURAL / FOREST LAND USES				
DEQ PCS CODE	**TYPE OF ACTIVITY**	**POTENTIAL WATER QUALITY IMPACTS**	**Risk to GW**	**Risk to SW**
A01	Auction Lots	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	H	H
A02	Boarding Stables	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	M	H
A03	Confined Animal Feeding Operations (CAFOs)	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	H	H
A04	Crops - Irrigated - Berries, Hops, Mint, Orchards, Vineyards/Nurseries, Green Houses, Vegetables, etc.	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants or sediments to groundwater/surface water through runoff. NOTE: *Drip-irrigated crops such as vineyards and some vegetables, are considered to be a low risk.	M*	H
A05	Crops - Nonirrigated - Christmas Trees, Grains, Grass Seeds, Hay, Pasture	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk to groundwater and surface water.	L	L
A06	Farm Machinery Repair	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	H	M
A07	Grazing Animals - > 5 Large Animals or Equivalent/Acre	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	M	H
A08	Lagoons/Liquid Wastes	Improper seepage or overflows of liquid wastes may impact the drinking water supply.	H	H
A09	Land Application Sites	Improper management of sludge and wastewater may impact drinking water supply.	M	H
A10	Managed Forest Lands - Broadcast Fertilized Areas	Over-application or improper handling of pesticides or fertilizers may impact the drinking water source.	L	M
A11	Managed Forest Lands - Clearcut Harvested - < 35 yrs	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	M	H

TABLE 2. POSSIBLE WATER QUALITY IMPACTS FOR POTENTIAL CONTAMINANT SOURCES

DEQ PCS CODE	TYPE OF ACTIVITY	POTENTIAL WATER QUALITY IMPACTS	Risk to GW	Risk to SW
A12	Managed Forest Lands - Partial Harvested - <10 yrs	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes (ex:nitrates) in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	M	H
A13	Managed Forest Lands - Road Density - > 2 mi/sq mi	Road building, maintenance, and usage may contribute to erosion and slope failure causing turbidity in drinking water supply. Vehicle usage increases the risks of leaks or spills of petroleum products and other hazardous materials.	M	H
A14	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	H	H
A15	Recent Burn Areas - < 10 yrs	Vegetation removal by fire may increase surface erosion and sediment delivery rates, resulting in high turbidity in drinking water source.	L	H
A50	Others (List)	The impacts of this potential contaminant source will be addressed during the enhanced inventory.		

TABLE 2. POSSIBLE WATER QUALITY IMPACTS FOR POTENTIAL CONTAMINANT SOURCES

MISCELLANEOUS LAND USES				
DEQ PCS CODE	**TYPE OF ACTIVITY**	**POTENTIAL WATER QUALITY IMPACTS**	**Risk to GW**	**Risk to SW**
M01	Above Ground Storage Tanks	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	M	M
M02	Channel Alterations - Heavy	Construction or maintenance of channel may cause erosion, resulting in increase in turbidity of surface water. Improper stream alterations may also contribute to increase in potential for flooding.	L	H
M03	Combined Sewer Outfalls	Combined sewer overflows contribute untreated wastewater at the outfall.	L	H
M04	Stormwater Outfalls	Stormwater run-off may contain contaminants from residential (homesites and roads), commercial/industrial, and agricultural use areas.	L	H
M05	Composting Facilities	Storage and improper handling of organic material, animal waste, and wastewater may impact drinking water.	M	H
M06	Historic Gas Stations	Historic spills, leaks, or improper handling of solvents and petroleum products may impact the drinking water supply. Abandoned underground storage tanks may be present.	H	H
M07	Historic Waste Dumps/Landfills	Water percolating through old landfills or dump sites may transport contaminants to groundwater or surface water supply.	H	H
M08	Homesteads - Rural - Machine Shops	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	H	H
M09	Homesteads - Rural - Septic Systems < 1/Acre	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	L	L
M10	Injection Wells/Drywells/Sumps - Class V UICs	Shallow injection wells may transport untreated wastewater (process or storm water) directly into groundwater and impact drinking water.	H	M
M11	Kennels - > 20 Pens	Improper storage, management, and disposal of animal wastes and wastewater in areas of concentrated animals may impact drinking water.	L	M
M12	Military Installations	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply. May also contain ordnance or waste landfills/dump sites, as well as other potential contaminant sources.	H	H
M13	Random Dumpsites	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	M	H

TABLE 2. POSSIBLE WATER QUALITY IMPACTS FOR POTENTIAL CONTAMINANT SOURCES

DEQ PCS CODE	TYPE OF ACTIVITY	POTENTIAL WATER QUALITY IMPACTS	Risk to GW	Risk to SW
M14	River Recreation - Heavy Use	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination of the drinking water supply.	L	M
M15	Sludge Disposal Areas	Improper management of sludge and wastewater may impact drinking water supply.	M	H
M16	Stormwater Retention Basins	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	M	H
M17	Transmission Lines - Right-of-Ways	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	L	H
M18	Transportation Corridors - Freeways/State Highways	Vehicle usage increases the risks for leaks or spills of fuels and other hazardous materials that may impact drinking water. Road building, maintenance, and usage may contribute to increased erosion and slope failure causing turbidity in drinking water source. Over-application or improper handling of pesticides or fertilizers may impact the drinking water supply.	M	H
M19	Transportation Corridors - Railroads	Rail transport increases the risks for leaks or spills of fuels and other hazardous materials that may impact drinking water. Installation and maintenance of tracks may contribute to increased erosion and slope failure causing turbidity in drinking water source. Over-application or improper handling of pesticides adjacent to tracks may impact the drinking water supply.	M	H
M20	Transportation Corridors - Right-of-Ways - Herbicide Use Areas	Over-application or improper handling of pesticides may impact drinking water supply.	M	H
M21	Transportation Corridors - River Traffic – Heavy	Heavy river usage may contribute to riverbank erosion and increased turbidity in drinking water supply. Fuel and other chemical leaks, spills and emissions may also contribute to drinking water contamination.	L	H
M22	Transportation Corridors - Stream Crossing – Perennial	Road building, maintenance, and usage may contribute to erosion and slope failure causing turbidity in drinking water source. Vehicle usage increases the risks of leaks or spills of fuels and other chemicals in highly sensitive areas. Over-application or improper handling of pesticides in right-of-way may also impact drinking water source.	L	H
M23	UST - Confirmed Leaking Tanks - DEQ List	Existing contamination from spills, leaks, or improper handling of stored materials may impact the drinking water supply.	H	M
M24	UST – Decommissioned	Historic spills or leaks may impact the drinking water supply.	L	L

TABLE 2. POSSIBLE WATER QUALITY IMPACTS FOR POTENTIAL CONTAMINANT SOURCES

DEQ PCS CODE	TYPE OF ACTIVITY	POTENTIAL WATER QUALITY IMPACTS	Risk to GW	Risk to SW
M25	UST - Non-Regulated Tanks - < 1,100 gals	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	H	M
M26	UST - Not Yet Upgraded or Registered Tanks	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	H	M
M27	UST - Upgraded and/or Registered – Active	Spills or improper handling during tank filling or product distribution may impact the drinking water supply.	L	L
M28	UST - Status Unknown	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	H	M
M29	Upstream Reservoirs	During major storm events, reservoirs may contribute to prolonged turbidity for downstream intakes for drinking water. Construction, fluctuating water levels, and heavy waterside use can increase erosion and turbidity in reservoir/drinking water source.	L	M
M30	Wells/Abandoned Wells	Improperly installed or maintained wells and abandoned wells may provide a direct conduit for contamination to groundwater and drinking water source.	H	M
M31	Large Capacity Septic Systems -Class V UIC (serves >20)	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	H	M
M50	Others (List)	The impacts of this potential contaminant source will be addressed during the enhanced inventory.		

TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100591 OREGON CITY - SOUTH FORK W B

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1	Homesteads - Rural - Septic Systems (< 1/acre)	residential on septic systems	between Forsythe and Carver on Clackamas River Drive (CRD)	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	1+ acre homesteads in flood plain.
2	Transportation - Freeways/State Highways/Other Heavy Use Roads	Clackamas River Drive	road through DWPA	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	Steep forested slopes.
3	Drinking Water Treatment Plants	South Fork Water Board Intake	13074 CRD	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Moderate	Treatment chemicals and equipment maintenance materials may impact groundwater or surface water source.	
4	Boarding Stables	boarding stable ?	14135 CRD	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Approximately 10 acres.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Approximately 10 acres.
5	River Recreation - Heavy Use (inc. campgrounds)	Main Stem of Clackamas River	through DWPA	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Moderate	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
6	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Serres Nursery	Forsythe Rd. between S. Highland Rd. and Hunter Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas. for CLACKAMAS RIVER	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Farm equipment.
7	Homesteads - Rural - Septic Systems (< 1/acre)	residential on septic systems	Forsythe Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
8	Other	slide area	Forsythe Rd. between S. Highland Rd. and Hunter Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Slide area at the end of Swan Ave.
9	Lawn Care - Highly Maintained Areas	residential	at end of Edgewater Street	Gladstone	Field-Observation	Just outside DWPA for CLACKAMAS RIVER	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	New subdivision and older residential area. Site is located beyond DWPA but it may impact the DWPA.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	New subdivision and older residential area. Site is located beyond DWPA but it may impact the DWPA.

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10	Transportation - Railroads	Southern Pacific Railroad	parallel to Clackamas River	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Rail transport elevates the risk for leaks/spills of fuel & other haz. materials. Installation/maintenance of tracks may increase erosion & slope failure causing turbidity. Over-application/improper handling of pesticides may impact the water supply.	
11	Housing - High Density (> 1 House/0.5 acres)		residential	Evergreen Lane	Field-Observation	Gladstone sensitive area. for CLACKAMAS RIVER	Within Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
12	RV/Mini Storage	Oregon Self Storage	660 SE 82nd Drive	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Lower	Spills, leaks, or improper handling of automotive fluids and other materials during transportation, storage and disposal may impact the drinking water supply.	RV and personal property storage facility.
13	Parking Lots/Malls (> 50 Spaces)	Clackamas River Club	790 SE 82nd Drive	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
14	Campgrounds/RV Parks	Holly View Court	1180 SE 82nd Drive	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Moderate	Leaks or spills of automotive fluids or improperly managed septic systems and wastewater disposal may impact drinking water supply. Heavy usage along edge of waterbody may contribute to erosion, causing turbidity.	Small mobile home park.

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18	River Recreation - Heavy Use (inc. campgrounds)	Main Stem of Clackamas River	through DWPA	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Moderate	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination.	
22	Homesteads - Rural - Septic Systems (< 1/acre)	residential on septic systems	Highland Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas. for CLACKAMAS RIVER	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
24	Machine Shops	Maxwell Mold and Machine Shop	960 SE 82nd Drive	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Other Cell Phone Tower						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
25	Fleet/Trucking/Bus Terminals	Gladstone School Bus Station	north of Wheeler Ct.	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
26	Automobiles - Body Shops	R & R Automotive	1250 SE 82nd Drive	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
27	Other Warehouse	Classic Pool and Spa	17875 SE 82nd Drive	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
28	Other Unknown Business Type	Riggers	17865 SE 82nd Drive	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Potential risk should be verified during enhanced inventory. Unknown operations - needs verification.
29	Office Buildings/Complexes	West Coast Screen Printing and various retail businesses	17855 thru 17765 SE 82nd Drive	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Photo Processing/Printing						Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
30	Parking Lots/Malls (> 50 Spaces)	RV & Auto Storage	across street form West Coast Screen Printing	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
31	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	small crops-irrigated	between Edgewater Rd. and RV & Auto Storage facility	Gladstone	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
32	Housing - High Density (> 1 House/0.5 acres)		residential	Casa Blanca Ct. Co (unincorp)	Field-Observation	Clackamas sensitive area. for CLACKAMAS RIVER	Within	Moderate Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
33	Housing - High Density (> 1 House/0.5 acres)	Residential Park	Clackamas	SE Dean Drive Co (unincorp)	Clackamas Observation	Field-sensitive area. for CLACKAMAS RIVER	Within	Moderate Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
34	Housing - High Density (> 1 House/0.5 acres)		residential	Tiffany Ct. Co (unincorp)	Clackamas Observation	Field-sensitive areas. for CLACKAMAS RIVER	Outside	Moderate Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
35	Apartments and Condominiums	Briar Wood Town Homes	SE 82nd Drive	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Lower	Improper use, storage, and disposal of household and facility maintenance chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to water supply.	

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36	Parking Lots/Malls (> 50 Spaces)	Harmony Road Music	17300 SE 82nd Drive	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
37	Parking Lots/Malls (> 50 Spaces)	Village Place	9100 SE Scottstree Way	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Large apartment complex.
	Apartments and Condominiums						Lower	Improper use, storage, and disposal of household and facility maintenance chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to water supply.	Large apartment complex.

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38	Fleet/Trucking/Bus Terminals	Safeway complex	SE 82nd and Jennifer St.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Food Processing						Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
41	Office Buildings/Complexes	retail businesses and office complexes	SE 82nd Drive, between Hwy 212 and SE 82nd Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
42	Waste Transfer/Recycling Stations	Street Sweeper Recycle	Jennifer St. and Evelyn St.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Improper management of water contacting waste material may impact the drinking water supply.	

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43	Office Buildings/Complexes	Oregon Department of Fish and Wildlife regional office	17330 SE Evelyn St.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	Potential risk should be verified during enhanced inventory.
	Other Fish Research						Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Potential risk should be verified during enhanced inventory.
44	Utility Stations - Maintenance Transformer Storage	P.G.E. Substation	Evelyn Street	Clackamas Co (unincorp)	Field-Observation	Within sensitive area. for CLACKAMAS RIVER	Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	Electrical power substation.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100580 North Clackamas Co. Wtr Com. (former Oak Lodge WD)

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
15	Drinking Water Treatment Plants	North Clackamas County Water Commission	14275 Clackamas River Drive	Co (unincorp)	Clackamas Observation	Field-sensitive area.	Within	Moderate Treatment chemicals and equipment maintenance materials may impact groundwater or surface water source.	10 acres.
16	Homesteads - Rural - Septic Systems (< 1/acre)	residential on septic systems	between Forsythe and Carver on Clackamas River Drive	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Approximately 1 acre in flood plain.
17	Transportation - Freeways/State Highways/Other Heavy Use Roads	Clackamas River Drive	through DWPA	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	Steep forested slope on south side.
19	Transportation - Freeways/State Highways/Other Heavy Use Roads	Clackamas River Drive	through DWPA	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
20	Homesteads - Rural - Septic Systems (< 1/acre)	residential on septic systems	Forsythe Rd. between Brunner Rd. and Highland Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
21	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Nursery	14703 Forsythe Rd.		Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Appears abandoned, location should be verified.

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23	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	Managed Forest Lands	Highland Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
39	Metal Plating/Finishing/Fabrication	Mark's Metal Technology	10300 SE Jennifer St.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Manufacturing.
40	Office Buildings/Complexes	Clackamas Station	10315 SE Jennifer St.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	Garden Distribution NW, Ameri Source, Maco Wood Products.
	Furniture/Lumber/Parts Stores						Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	Garden Distribution NW, Ameri Source, Maco Wood Products.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Garden Distribution NW, Ameri Source, Maco Wood Products.
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Garden Distribution NW, Ameri Source, Maco Wood Products.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100580 North Clackamas Co. Wtr Com. (former Oak Lodge WD)

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
45	Parking Lots/Malls (> 50 Spaces)	Riverside County Park	Water Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Multi-use park, boat ramp.
	Stormwater Outfalls						Higher	Stormwater run-off may contain contaminants from residential (homesites and roads), commercial/industrial, and agricultural use areas.	Multi-use park, boat ramp.
	Parks						Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	Multi-use park, boat ramp.
46	Other Culvert Storage	Clackamas County storage facility	Water Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
53	Transportation - Freeways/State Highways/Other Heavy Use Roads	Clackamas River Drive	through DWPA	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
69	Homesteads - Rural - Septic Systems (< 1/acre)	residential area	Brunner Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Rural residential.

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
71	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	crops	Brunner Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Greenhouses and nursery.
72	Housing - High Density (> 1 House/0.5 acres)		residential area	Brunner Rd. Co (unincorp)	Clackamas Observation	Field-sensitive area.	Within	Moderate Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Rural residential.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
47	Housing - High Density (> 1 House/0.5 acres)		residential area between Forsythe Rd. and Carver on Clackamas River Drive (CRD)	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Residential area on south side of CRD. Steep, forested, short river banks on north side of CRD.
48	Homesteads - Rural - Machine Shops/Equipment Maintenance	residential	14760 CRD and 17610 CRD	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Residential with heavy equipment storage.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
49	Homesteads - Rural - Septic Systems (< 1/acre)	residential area	between Forsythe Rd. and Carver on CRD	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Residential area in flood plain.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Residential area in flood plain.
50	Schools	River Bend Youth Center/Youth Adventure Park	north side of CRD	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	Facility in flood plain.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
51	Other Steep Slopes	Johnson Creek	through DWPA	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
52	River Recreation - Heavy Use (inc. campgrounds)	main stem of Clackamas River	through DWPA	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination.	
54	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	crops - irrigated	16918 & 17539 CRD	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Agricultural area in flood plain.
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	Agricultural area in flood plain.
55	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas	Brownell Holly Farm	north side of CRD	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	In flood plain.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	In flood plain.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
56	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	crops - nonirrigated	17494 CRD, on south side of CRD.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
57	Other Restaurant & Tavern - parking lot packed gravel	Rock Garden Tavern	17930 South CRD	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Parking lot size - approximately 50 vehicles.
58	Grazing Animals (> 5 large animals or equivalent/acre)	residential area	Forsythe & Cliff View housing	Clackamas Co (unincorp)	Field-Observation	Field-sensitive areas.	Outside Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Rural subdivision on crest of Clackamas River; drainage on south side.
	Septic Systems - High Density (> 1 system/acre)						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	Rural subdivision on crest of Clackamas River; drainage on south side.
59	Homesteads - Rural - Septic Systems (< 1/acre)	residential area	on Forsythe Rd. from Bradley to Brunner Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Rural residential on septic systems.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
60	Boarding Stables	Avon Kennel	Bukstrom Rd. & Forsythe Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
	Kennels (> 20 Pens)						Moderate	Improper storage, management, and disposal of animal wastes and wastewater in areas of concentrated animals may impact drinking water.	
61	Housing - High Density (> 1 House/0.5 acres)		residential area	Burkstrom Rd. Clackamas Co (unincorp)	Field-Observation	sensitive areas.	Outside Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Rural sub-division.
62	Housing - High Density (> 1 House/0.5 acres)		residential area	Victory Rd. Clackamas Co (unincorp)	Field-Observation	sensitive areas.	Outside Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Rural housing.
63	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Outlook Tree Farm	Forsythe Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
64	Boarding Stables	boarding stable	16330 Forsythe Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
65	Grazing Animals (> 5 large animals or equivalent/acre)	livestock	15987 Forsythe Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
66	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	crops - nonirrigated	15833 Forsythe Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
67	Transportation - Freeways/State Highways/Other Heavy Use Roads	Forsythe Rd.	south of CRD	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
68	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Oregon Dried Floral Farms	Beaton Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Housing adjacent to nursery.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Housing adjacent to nursery.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
70	Boarding Stables	Carpe Diem Farm	14681 South Brunner Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Boarding stable and large arena.
73	Housing - High Density (> 1 House/0.5 acres)		Carver	Hwy. 224	Carver Observation	Field-sensitive areas.	Outside	Moderate Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
74	Food Processing	The Hanger	Hwy. 224	Carver	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
75	Large Capacity Septic Systems (serves > 20 people) - Class V UICs	Carver Mobile Home Park	Hwy. 224	Carver	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
76	Transportation - Freeways/State Highways/Other Heavy Use Roads	Carver Bridge	Clackamas River crossing between Carver & CRD	Carver	Field-Observation	Within sensitive area.	Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
77	Transportation - River Traffic - Heavy	Carver Boat Ramp	Springwater Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Heavy river usage may contribute to riverbank erosion and increased turbidity in drinking water supply. Fuel and other chemical leaks, spills and emissions may also contribute to drinking water contamination.	
	River Recreation - Heavy Use (inc. campgrounds)						Moderate	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination.	
78	Schools	Full Circle Countryside School	north side of Hwy 224, 1/4 mile south of R. C. Rock Products	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	
79	Motor Pools	Park & Ride	Hwy. 224, in front of Full Circle Countryside School	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of fuels and other chemicals from vehicle service and parking areas may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water.	
80	Wood/Pulp/Paper Processing and Mills	Pacific Western Co. Saw Mill	16051 Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Almost active.
81	Wells/Abandoned Wells	Carver Community Well	16051 Hwy. 224	Carver	Field-Observation	Outside sensitive areas.	Moderate	Improperly installed or maintained wells and abandoned wells may provide a direct conduit for contamination to groundwater and drinking water source.	Serves approximately 200-300 people.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
82	Homesteads - Rural - Septic Systems (< 1/acre)	residential area	Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Rural residential.
83	Large Capacity Septic Systems (serves > 20 people) - Class V UICs	Riverview Mobile Home Park	15758 SE Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
	Sludge Disposal Areas						Higher	Improper management of sludge and wastewater may impact drinking water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Septic Systems - High Density (> 1 system/acre)						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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84	Fleet/Trucking/Bus Terminals	R.C. Rock Products	Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Landscape rock and rock crushing; future urban density.
	Mines/Gravel Pits						Higher	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	
	Stormwater Outfalls						Higher	Stormwater run-off may contain contaminants from residential (homesites and roads), commercial/industrial, and agricultural use areas.	
85	Housing - High Density (> 1 House/0.5 acres)	Engert Ridge	Hwy. 224 & Eckert Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
86	Upstream Reservoirs/Dams	Halladin Heights	Orchard Lake & Hwy. 224 & Goose Hollow Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	During major storm events, reservoirs may contribute to prolonged turbidity for downstream intakes for drinking water. Construction, fluctuating water levels, and heavy waterside use can increase erosion and turbidity in reservoir/drinking water source.	M29 - community lake.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
87	Apartments and Condominiums	Senior Care Center	Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Improper use, storage, and disposal of household and facility maintenance chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to water supply.	Retirement community.
88	Parking Lots/Malls (> 50 Spaces)	Green Acres Country Store	Hwy. 224 & Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Previous business name Rikz Farm Country Store. Small scale retail nursery. Produce & nursery; nursery supplies etc.
89	Parking Lots/Malls (> 50 Spaces)	River Bend Mobile Home Park	Hwy. 224 & Hwy. 212	Clackamas	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Sludge disposal area is in flood plain.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
	Sludge Disposal Areas						Higher	Improper management of sludge and wastewater may impact drinking water supply.	

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90	Sludge Disposal Areas	Shadow Brook Mobile Home Park	13640 Hwy. 224 & Hwy. 212	Clackamas	Field-Observation	Within sensitive area.	Higher	Improper management of sludge and wastewater may impact drinking water supply.	Sludge disposal area is in flood plain.
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	RV/Mini Storage						Lower	Spills, leaks, or improper handling of automotive fluids and other materials during transportation, storage and disposal may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
91	RV/Mini Storage	Clackamas River Village Mobil Home Park	16312 SE 135th	Clackamas	Field-Observation	Within sensitive area.	Lower	Spills, leaks, or improper handling of automotive fluids and other materials during transportation, storage and disposal may impact the drinking water supply.	Sludge disposal area is in flood plain.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Sludge Disposal Areas						Higher	Improper management of sludge and wastewater may impact drinking water supply.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
92	Golf Courses	Sha-Hah-Lee Golf Course	Capps Rd. & SE 130th	Clackamas	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
93	Parking Lots/Malls (> 50 Spaces)	Warn Industries	12900 Capps Rd.	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Manufacturing.
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	Manufacturing.
94	Food Processing	Enway Northwood Food Products	16940 130th	Clackamas	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
95	Machine Shops	Northwest Thermal Systems	12921 SE Capps Rd.	Clackamas	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
96	UST - Status Unknown	POFCO	13805 SE Capps Rd.	Clackamas	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	Assigned map location requires verification.
97	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	12727 SE Capps Rd	Clackamas	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
98	Parking Lots/Malls (> 50 Spaces)	Wymore Transfer	12651 SE Capps Rd	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Transportation - Railroads						Higher	Rail transport elevates the risk for leaks/spills of fuel & other haz. materials. Installation/maintenance of tracks may increase erosion & slope failure causing turbidity. Over-application/improper handling of pesticides may impact the water supply.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
99	Metal Plating/Finishing/Fabrication	A & B Reflectorizing	12250 SE Capps Rd.	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
100	Junk/Scrap/Salvage Yards	Jim Smith Excavating	Wilde Rd.	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Heavy equipment storage; composting; C18 = rock crushing.
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Mines/Gravel Pits						Higher	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	Heavy equipment storage; composting; C18 = rock crushing.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
101	Mines/Gravel Pits	Clackamas Sand & Gravel	Wilde Rd.	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	Abandoned operation; county owned.
102	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	17581 SE Wilde Rd.		Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Container nursery: trees, shrubs etc.
103	Furniture/Lumber/Parts Stores	Wrights Custom Products	17150 Wilde Rd.	Clackamas	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	
104	Junk/Scrap/Salvage Yards	Delta Steel Supply	17140 Wilde Rd.	Clackamas	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Steel supply company etc., incorporated.
105	Other 5 gallon storage containers on-site, contents unknown.	Monocrest	11711 SE Capps Rd.	Clackamas	Field-Observation	Within sensitive area.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Potential risk should be verified
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
106	Composting Facilities	Clackamas Compost Products	11620 SE Capps Rd.	Clackamas	Field-Observation	Within sensitive area.	Higher	Storage and improper handling of organic material, animal waste, and wastewater may impact drinking water.	

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107	Cement/Concrete Plants	Ken Hood Recycling	11681 SE Capp Rd.	Clackamas	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and high turbidity wastewaters during transportation, use, storage and disposal may impact the drinking water supply.	Recycling concrete and asphalt.
108	Junk/Scrap/Salvage Yards	salvage yard	adjacent to Clackamas Compost Products	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	On-site location needs verification.
109	Medical/Vet Offices	Adel Medical Ltd.	SE 120th	Clackamas	Field-Observation	Outside sensitive areas.	Lower	Spills, leaks, or improper handling of x-ray, biological, chemical, and radioactive wastes and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Medical supply.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
110	Waste Transfer/Recycling Stations	John P. Lehl Company	SE 120th	Clackamas	Field-Observation	Outside sensitive areas.	Higher	Improper management of water contacting waste material may impact the drinking water supply.	Waste containers.
111	Junk/Scrap/Salvage Yards	McCafferty-Whittle Construction Company	5570850 120th	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Heavy construction equipment storage.
112	Metal Plating/Finishing/Fabrication	P.P.G. Finishes Distribution Center	11900 Jennifer St.	Clackamas	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Potential risk should be verified

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113	Home Manufacturing	Precision Roof Trusses Inc.	Jennifer St. & 115 Ave.	Clackamas	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
114	Automobiles - Body Shops	Gary's Mustangs	SE 115th	Clackamas	Field-Observation	Outside sensitive areas.	Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	Headwaters - Carley Creek. Past problems with contaminated wells - chromium.
115	Metal Plating/Finishing/Fabrication	Surgichrome	SE 115th	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	DEQ monitored.
116	Chemical/Petroleum Processing/Storage	private residence / special asphalt products	16590 & 16569 SE 115th	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Appears to be two separate locations. Noted: an approximately 7 thousand gallon tank at the special asphalt products location. Assigned map location needs verification.
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
117	Chemical/Petroleum Processing/Storage	Tri Fab Manufacturing Warehouse	SE 115th & Jennifer St.	Clackamas	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Possible metal works.

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118	Cement/Concrete Plants	Concrete Services	11340 Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and high turbidity wastewaters during transportation, use, storage and disposal may impact the drinking water supply.	Cement batching plant.
119	Junk/Scrap/Salvage Yards	private residence	approximately SE 113th		Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
120	Stormwater Retention Basins	Carley Creek	behind Concrete Services batching plant	Clackamas	Field-Observation	Within sensitive area.	Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	Row crops; storm water retention ponds.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
121	Chemical/Petroleum Processing/Storage	Portland Road & Driveway	10960 SE Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Has storm water outfall to Clackamas River. Asphalt batch plant on-site.

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122	Machine Shops	Portland Road & Driveway	10500 SE Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	Gravel pit active; heavy equipment storage and maintenance. Assigned map location needs verification.
	Mines/Gravel Pits						Higher	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	
	Stormwater Retention Basins						Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	
123	Parks	SE Robert Avenue	east of Safeway Rd. off Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	M17: Clackamas River Water waterline, new construction; private residence located on river edge.
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	

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124	Drinking Water Treatment Plants	Clackamas River Water Drinking Water Treatment Plant	9100 Mangan Lane	Clackamas	Field-Observation	Within sensitive area.	Moderate	Treatment chemicals and equipment maintenance materials may impact groundwater or surface water source.	Chlorine scrubber facility; propane tanks; motor pool and fleet maintenance.
	Above Ground Storage Tanks - Excluding Water						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
125	Fleet/Trucking/Bus Terminals	Security Chain Company	106th & Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Chain manufacturing.
126	Fleet/Trucking/Bus Terminals	Blount Industries	10955 SE Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Oregon cutting systems - previous business name; manufacturing chain saw chain.

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127	Fleet/Trucking/Bus Terminals	Holman Distribution Company	11401 SE Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Storage and distribution.
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
128	Fleet/Trucking/Bus Terminals	C.B. Equipment Company Holman Trucking	12001 SE Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Sales, service parts, rentals; lift trucks
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
129	Fleet/Trucking/Bus Terminals	USF Reddaway	122nd & Jennifer St., 12250 Ford St.	Clackamas	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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130	Food Processing	Fred Meyer Bakery	16274 122nd	Clackamas	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Hazardous chemicals; hazardous materials posting denotes 332.
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	Hazardous chemicals; hazardous materials posting denotes 332.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
131	Parking Lots/Malls (> 50 Spaces)	Cornell Pump Company	130th & Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Pump manufacturing and repair.
132	Cement/Concrete Plants	Mutual Materials Company	16800 SE 130th	Clackamas	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and high turbidity wastewaters during transportation, use, storage and disposal may impact the drinking water supply.	Concrete block manufacturing.
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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133	Home Manufacturing	A & B Reflectorizing	16795 SE 130th	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Wood Preserving/Treating						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
134	Junk/Scrap/Salvage Yards	ANI	16815 SE 130th	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	55 gallon storage on site.
135	Waste Transfer/Recycling Stations	Safety Kleen	16540 SE 130th	Clackamas	Field-Observation	Within sensitive area.	Higher	Improper management of water contacting waste material may impact the drinking water supply.	Hazardous chemicals; solvent recycle. Hazardous materials posting denotes 332.
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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136	Parking Lots/Malls (> 50 Spaces)	ProLogis	130th & Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Distribution company, located on Jennifer St.
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
137	Stormwater Retention Basins	P.G.E.	SE Jennifer St.; across street from 13011 Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	P.G.E. substation.
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
138	Metal Plating/Finishing/Fabrication	P & A Metal Fab Inc.	13009 Jennifer St.	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Metal fabrication.
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
139	Office Buildings/Complexes	Central Garden & Pet Supply	13011-205 Jennifer St. SE	Clackamas	Field-Observation	Within sensitive area.	Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	Storage and transfer. Located in business park.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
140	Parking Lots/Malls (> 50 Spaces)	FLOREXPO, LLC	13011-206 Jennifer St. SE	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
141	Office Buildings/Complexes	warehouse & distribution	13009-104 Jennifer St. (north side)		Clackamas Observation	Field-sensitive area.	Within	Lower Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
142	Fire Station	Clackamas Fire District No. 1	16100 130th	Clackamas	Field-Observation	Within sensitive area.	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Fire station and training.
	Fire Training Facilities						Moderate	Improper use of fuels and other chemicals during fire training may impact the drinking water supply.	Fire station and training.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
143	Parking Lots/Malls (> 50 Spaces)	Rolling Truck Rental & Leasing	15975 SE 130th	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
144	Parking Lots/Malls (> 50 Spaces)	Ruan Mega Fleet	15800 SE 130th	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Other Miscellaneous Maintenance Shop						Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
145	Other Hazardous Chemicals Storage & Transfer	Walco International Inc.	15760 SE 130th	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
146	Machine Shops	Kiwanda Machine Works Inc.	15756 SE 130th	Clackamas	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	No longer in business. Current business at this location unknown.
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
147	Metal Plating/Finishing/Fabrication	MST Corp.	15740 SE 130th	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Metal Working Technology
148	Other Retail Feed & Pet Supply	Clackamas Feed & Pet Supply	15734 SE 130th	Clackamas	Field-Observation	Within sensitive area.	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
149	Chemical/Petroleum Processing/Storage	USFS Work Center	River Lake Rd.	Estacada	Field-Observation	Just outside DWPA	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Hazardous material posting. Site is located beyond DWPA but it may impact the DWPA.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
150	Junk/Scrap/Salvage Yards	River Lake Road	Estacada area	Estacada	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Rural residential within 100 yards of river.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
151	Homesteads - Rural - Septic Systems (< 1/acre)	residential areas	River Lake Rd., Endive Rd., Dandelion Rd., Fuchia Rd., Poplar Rd.	Estacada	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Stream running through rural residential culvert under roadway near Poplar Rd.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
152	Upstream Reservoirs/Dams	River Mill Dam	At the end of Killowatt Ln. off River Mill Rd.	Estacada	Field-Observation	Within sensitive area.	Moderate	During major storm events, reservoirs may contribute to prolonged turbidity for downstream intakes for drinking water. Construction, fluctuating water levels, and heavy waterside use can increase erosion and turbidity in reservoir/drinking water source.	
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
153	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	South Serne Rd.	Estacada	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
154	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential	South Sailing Rd.	Estacada	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Fenced pastures.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
155	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	South Estacada Road	south side of Estacada Rd. off Hayden Rd.	Estacada	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Unmanaged forest.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Unmanaged forest.
156	Homesteads - Rural - Septic Systems (< 1/acre)	Hwy. 211	From Hwy. 224 to S. Day Hill Rd.	Estacada	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
157	Grazing Animals (> 5 large animals or equivalent/acre)	South Day Hill Road	located on south side of Hwy. 211	Estacada	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
158	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residence	22988 S. Day Hill Rd.	Estacada	Field-Observation	Just outside DWPA	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Parking lot area of unusable vehicles/RVs. Site is located beyond DWPA but it may impact the DWPA.
159	Utility Stations - Maintenance Transformer Storage	Cascade Utilities	S. Day Hill Rd.	Estacada	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	Utility.

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160	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residence	23250 S. Day Hill Rd.	Estacada	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Unusable vehicles and RV.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	

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161	Transportation - Stream Crossing - Perennial	Dubois Creek Lane	on west side of Hwy. 211, south of Hayden Rd.	Estacada	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Intersects with Hwy. 211. Highly maintained lawn next to Dubois Creek. Unmanaged forest.
	Wells/Abandoned Wells						Moderate	Improperly installed or maintained wells and abandoned wells may provide a direct conduit for contamination to groundwater and drinking water source.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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162	Homesteads - Rural - Septic Systems (< 1/acre)	Christmas tree farms / AM Nursery	25970 & 25951 S. Wallens Rd.	Estacada	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	5 acre pasture. Newly planted trees.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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163	Transportation - Stream Crossing - Perennial	S. Kinzy Road	off Springwater Rd., east of Wallens Rd.	Estacada	Field-Observation	Outside sensitive areas.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	5 acre pasture land; Christmas tree farms.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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164	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Perry Farms	23397 S. Reid Rd.	Estacada	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Farm machinery.
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
165	Grazing Animals (> 5 large animals or equivalent/acre)	S. Reid Road	SW of Poplar Rd.	Estacada	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
166	Grazing Animals (> 5 large animals or equivalent/acre)	Laura Lane	on east side of Reid Rd.	Estacada	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Land Application Sites						Higher	Improper management of sludge and wastewater may impact drinking water supply.	

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167	Transportation - Freeways/State Highways/Other Heavy Use Roads	Springwater Road	Springwater Rd., north and west of Wallen Rd. to Hayden Rd.	Estacada	Field-Observation	Outside sensitive areas.	Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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168	Above Ground Storage Tanks - Excluding Water	Springwater Grocery	25401 Springwater Rd.	Estacada	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
	Historic Gas Stations						Higher	Historic spills, leaks, or improper handling of solvents and petroleum products may impact the drinking water supply. Abandoned underground storage tanks may be present.	
169	Grazing Animals (> 5 large animals or equivalent/acre)	Santa Gertrudis Flying K Ranch	Hayden Rd. & Springwater Rd.	Estacada	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Cattle ranch.
170	Farm Machinery Repair	Gerber Farm Supply	21879 Springwater Rd.	Estacada	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	

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171	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Springwater Road	Springwater Rd. north and west of Hayden Rd. to McIver Park	Estacada	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
172	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Woodland Way	opposite of Park View Ln., west of McIver State Park	Estacada	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
173	Stormwater Retention Basins	S. Park View Lane	opposite of Woodland Way, west of McIver State Park	Estacada	Field-Observation	Outside sensitive areas.	Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	1 - retention basin; 3 - small ponds.
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
174	Parking Lots/Malls (> 50 Spaces)	Milo McIver State Park	located off Springwater Rd., between Redland Rd. & Hayden Rd.	Estacada	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	State fish hatchery; RV dump station; equestrian trails.
	River Recreation - Heavy Use (inc. campgrounds)						Moderate	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination.	
	Campgrounds/RV Parks						Moderate	Leaks or spills of automotive fluids or improperly managed septic systems and wastewater disposal may impact drinking water supply. Heavy usage along edge of waterbody may contribute to erosion, causing turbidity.	
	Parks						Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	
	Waste Transfer/Recycling Stations						Higher	Improper management of water contacting waste material may impact the drinking water supply.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
175	Transportation - River Traffic - Heavy	Carver Park & Boat Launch	Carver	Carver	Field-Observation	Within sensitive area.	Higher	Heavy river usage may contribute to riverbank erosion and increased turbidity in drinking water supply. Fuel and other chemical leaks, spills and emissions may also contribute to drinking water contamination.	Bridge crossing over Clackamas River.
	Parks						Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	
	River Recreation - Heavy Use (inc. campgrounds)						Moderate	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Septic Systems - High Density (> 1 system/acre)						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
176	Homesteads - Rural - Septic Systems (< 1/acre)	Emmerts Clackamas River Estates	NE side of Springwater Rd., between Hattan Rd. & Kanne Ln.	Carver	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Less than 1 house per 2 acres.
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Other Land Disturbance - Recent Logging						Moderate	The impacts to this potential contaminant source will be addressed during the enhanced inventory.	
177	Housing - High Density (> 1 House/0.5 acres)	City Compression Station	William's Oregon near Kanne Ln.	15124 S. Springwater Rd., Carver	Field-Observation	Within sensitive area.	Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Large natural gas compressor station; maintained road entrance; R09: <1 House/Acre.
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
178	Parks	Willsada Park	S. Willsada Park Way, located on Clear Creek	Carver	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
179	Grazing Animals (> 5 large animals or equivalent/acre)	rural residence	15253 S. Springwater Rd.	Carver	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Both sides of road.
180	Grazing Animals (> 5 large animals or equivalent/acre)	S. Springwater Road	from Hattan Rd. to Bakers Ferry Rd.	Carver	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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181	Housing - High Density (> 1 House/0.5 acres)	High Density	Residential Housing Springwater Rd.	Coquina Ave. & S.	Observation	Carver sensitive areas.	Field-	Outside Moderate Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Rural residential.
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
182	Machine Shops	rural residence	15430 S. Springwater Rd.	Carver	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	

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183	Homesteads - Rural - Septic Systems (< 1/acre)	Springwater Road	from Bakers Ferry Rd. to Gerber Rd.	Carver	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Stream tp Clear Creek; Pleasant Valley Cemetery.
	Schools						Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
183	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Springwater Road	from Bakers Ferry Rd. to Gerber Rd.	Carver	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Stream tp Clear Creek; Pleasant Valley Cemetery.
	Cemeteries - Pre-1945						Lower	Embalming fluids (for example, arsenic) and decomposition by-products may impact drinking water supply.	
184	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Babler Road	off Springwater Rd., between McCubbin Rd. & Gerber Rd.	Logan	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
185	Homesteads - Rural - Septic Systems (< 1/acre)	Gerber Road	off Springwater Rd., between Babler Rd. & Harding Rd.	Logan	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Cattle and sheep; M16: small pond; Clear Creek Telephone & Cable.
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
	Transportation - River Traffic - Heavy						Higher	Heavy river usage may contribute to riverbank erosion and increased turbidity in drinking water supply. Fuel and other chemical leaks, spills and emissions may also contribute to drinking water contamination.	
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
185	Stormwater Retention Basins	Gerber Road	off Springwater Rd., between Babler Rd. & Harding Rd.	Logan	Field-Observation	Within sensitive area.	Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	Cattle and sheep; M16: small pond; Clear Creek Telephone & Cable.
186	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Springwater Road	from Gerber Rd. to Harding Rd., just west of Gerber Rd.	Logan	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	UST - Decommissioned/Inactive						Lower	Historic spills or leaks may impact the drinking water supply.	

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187	Parks	Indian Springs Trout Farm	17951 Springwater Rd.	Logan	Field-Observation	Outside sensitive areas.	Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	Fishing pond.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Fishing pond.
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	Fishing pond.

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188	Housing - High Density (> 1 House/0.5 acres)		Harding Road Springwater Rd.	NW of Eaden	Rd., off Observation	Logan sensitive areas.	Field-	Outside Moderate Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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189	Utility Stations - Maintenance Transformer Storage	day care	16247 Harding Rd., south of Bakers Ferry Rd. on the west side of Harding Rd.	Logan	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
	Schools						Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	
190	Utility Stations - Maintenance Transformer Storage	High Pass Farm	16380 Harding Rd., south of Bakers Ferry Rd. on the east side of Harding Rd.	Logan	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	

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191	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Eaden Road	SE of Harding Rd., off Springwater Rd.	Logan	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
192	Grazing Animals (> 5 large animals or equivalent/acre)	Palmer Road	off Eaden Rd.	Logan	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
193	Homesteads - Rural - Septic Systems (< 1/acre)	Springwater Road	from Harding Rd. to McIver Park	Logan	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
194	Homesteads - Rural - Septic Systems (< 1/acre)	Bristlin Road	off Eaden Rd.	Logan	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
195	Homesteads - Rural - Septic Systems (< 1/acre)	S. Claus Court	off Eaden Rd.	Logan	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Small pond.
	Stormwater Retention Basins						Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	Small pond.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
196	Parks	Metro Green Spaces	off Eaden Rd.	Logan	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	Old River Island Sand & Gravel.
	Mines/Gravel Pits						Higher	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	
197	Homesteads - Rural - Septic Systems (< 1/acre)	The Cedars	retreat center off Eaden Rd.	Logan	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Property donated to Concordia University Portland, Oregon.
	Parks						Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	
198	Homesteads - Rural - Septic Systems (< 1/acre)	S. Rory Court	off Eaden Rd.	Logan	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
199	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	Feldheimer Road	off Springwater Rd., SE of Spring Creek Rd.	Logan	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Boat ramp; forest area.
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	River Recreation - Heavy Use (inc. campgrounds)						Moderate	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
200	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	S. Bakers Ferry Road	from Springwater Rd. to Gerber Rd.	Logan	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
201	Grazing Animals (> 5 large animals or equivalent/acre)	Priscilla Lane	off Bakers Ferry Rd.	Logan	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	UST - Decommissioned/Inactive						Lower	Historic spills or leaks may impact the drinking water supply.	
202	Lawn Care - Highly Maintained Areas	S. Foster Lane	north side of Bakers Ferry Rd.	Logan	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	Asphalt road along creek for approximately 1/2 mile.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
203	Stormwater Retention Basins	Tranquility Lane	SE of Foster Creek Ln., off Bakers Ferry Rd.	Logan	Field-Observation	Within sensitive area.	Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	Asphalt road; small pond; 2 homes in flood plain.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
204	Housing - High Density (> 1 House/0.5 acres)		Foster Creek Lane Rd.	south side of Bakers Ferry	Field-Observation	Logan sensitive area.	Within Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
205	Transportation - Stream Crossing - Perennial	S. Bakers Ferry Road	from Gerber Rd. to Barton	Logan	Field-Observation	Outside sensitive areas.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	UST @ Barton Store; small pond.
	UST - Upgraded/Registered - Active						Lower	Spills or improper handling during tank filling or product distribution may impact the drinking water supply.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
	River Recreation - Heavy Use (inc. campgrounds)						Moderate	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
206	Junk/Scrap/Salvage Yards	S. Rosemary Court	off Bakers Ferry Rd.	Logan	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Pasture land.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
207	Boarding Stables	Timber Creek Lane	off Bakers Ferry Rd.	Logan	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Holly farm.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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208	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	Latourette Road	NE of Chenowith Rd., off Bakers Ferry Rd.	Logan	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Small pond; approximately 500 gallon propane tank.
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Stormwater Retention Basins						Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
209	Parks	Barton Park	off Bakers Ferry Rd.	Barton	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	
	Mines/Gravel Pits						Higher	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	River Recreation - Heavy Use (inc. campgrounds)						Moderate	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination.	
	Sludge Disposal Areas						Higher	Improper management of sludge and wastewater may impact drinking water supply.	
	Stormwater Retention Basins						Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	
	Transportation - River Traffic - Heavy						Higher	Heavy river usage may contribute to riverbank erosion and increased turbidity in drinking water supply. Fuel and other chemical leaks, spills and emissions may also contribute to drinking water contamination.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
209	Campgrounds/RV Parks	Barton Park	off Bakers Ferry Rd.	Barton	Field-Observation	Within sensitive area.	Moderate	Leaks or spills of automotive fluids or improperly managed septic systems and wastewater disposal may impact drinking water supply. Heavy usage along edge of waterbody may contribute to erosion, causing turbidity.	
210	Boarding Stables	Stoneybrook Stables	located on the northwest side of Hwy. 224, near Moore Ln.		Barton Observation	Field-sensitive area.	Within	Higher Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Assigned map location requires verification.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
211	Junk/Scrap/Salvage Yards	Haynes Wrecking Co.	25027 SE Hwy. 224, located on north side of Hwy. 224 in Barton	Barton	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	

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212	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	S. Bard Road	off Day Hill Rd.	Estacada	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Pasture lands; plowed fields; small wood lot.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
213	Homesteads - Rural - Septic Systems (< 1/acre) r	rural residential	SE Day Lane Rd., north of Bard Rd.	Estacada	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
214	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	Kinzy Faire Ln.	Estacada	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Pasture and farm land, some plowed; Christmas tree farm. Site is located beyond DWPA but it may impact the DWPA.

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215	Junk/Scrap/Salvage Yards	salvage yard	27247 S. Kinzy Rd.	Estacada	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
216	Homesteads - Rural - Septic Systems (< 1/acre)	S. Skinner Road	south of Kinzy Rd.	Estacada	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Tree farms; pasture land; unmanaged forest. Near Estacada.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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217	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	S. Habelt Road	south of Skinner Rd.	Estacada	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Unmanaged forest; pasture land. Near Estacada.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
218	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Tucker Road	SW of Branch Tucker D.L.C. Airport	Estacada	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Unmanaged forest; Christmas tree farms. Near Estacada.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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219	Homesteads - Rural - Septic Systems (< 1/acre)	S. Century Road	east of Estacada Hwy. 161	Estacada	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Christmas tree farms; nursery. Near Estacada.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Christmas tree farms; nursery. Near Estacada.

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220	Drinking Water Treatment Plants	City of Estacada	east of Hwy. 224	Estacada	Field-Observation	Within sensitive area.	Moderate	Treatment chemicals and equipment maintenance materials may impact groundwater or surface water source.	Public storage.
	Fire Station						Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Public storage.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Public storage.
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	Public storage.
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	Public storage.
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Public storage.
	Parks						Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	Public storage.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
220	Schools	City of Estacada	east of Hwy. 224	Estacada	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	Public storage.
	Apartments and Condominiums						Lower	Improper use, storage, and disposal of household and facility maintenance chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to water supply.	Public storage.
	Railroad Yards/Maintenance/Fueling Areas						Higher	Spills, leaks, or improper handling of fuels and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Public storage.
	Automobiles - Body Shops						Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	Public storage.
	Transportation - River Traffic - Heavy						Higher	Heavy river usage may contribute to riverbank erosion and increased turbidity in drinking water supply. Fuel and other chemical leaks, spills and emissions may also contribute to drinking water contamination.	Public storage.
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	Public storage.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Public storage.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
220	Food Processing	City of Estacada	east of Hwy. 224	Estacada	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Public storage.
	Automobiles - Gas Stations						Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	Public storage.
	Automobiles - Car Washes						Moderate	Improper management of vehicle wash water may result in soaps, oils, greases, and metals impacting the drinking water supply.	Public storage.
	Upstream Reservoirs/Dams						Moderate	During major storm events, reservoirs may contribute to prolonged turbidity for downstream intakes for drinking water. Construction, fluctuating water levels, and heavy waterside use can increase erosion and turbidity in reservoir/drinking water source.	Public storage.
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	Public storage.
221	Apartments and Condominiums	Grace House	380 NW 6th Ave.	Estacada	Field-Observation	Within sensitive area.	Lower	Improper use, storage, and disposal of household and facility maintenance chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to water supply.	Licensed assisted living.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
222	Furniture/Lumber/Parts Stores	Estacada Lumber	east of Hwy. 224, northwest corner of the outskirts of Estacaca	Estacada	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	
	Stormwater Retention Basins						Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	
223	Fleet/Trucking/Bus Terminals	Ericksen Self Storage & U-Haul	west of Eagle Creek Rd., at the west end of 10th Street	Estacada	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
224	Parking Lots/Malls (> 50 Spaces)	S. Eagle Creek Road	east of Hwy. 211	Estacada	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Church parking lots.
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Cemeteries - Pre-1945						Lower	Embalming fluids (for example, arsenic) and decomposition by-products may impact drinking water supply.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Medical/Vet Offices						Lower	Spills, leaks, or improper handling of x-ray, biological, chemical, and radioactive wastes and other materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
225	Fleet/Trucking/Bus Terminals	Industrial area of Estacada	N.W. Industrial Way & Evergreen Road	Estacada	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Parks						Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
	Wastewater Treatment Plants/Collection Stations						Higher	Improper management of wastewater, treatment chemicals, or equipment maintenance materials may impact drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
226	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential	SE Rivermill Rd.	Estacada	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Nursery.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
227	Mines/Gravel Pits	Estacada Rock Products	SE Rivermill Rd.	Estacada	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	
228	Cement/Concrete Plants	Estacada Pre Mix	River Mill Dam Rd.	Estacada	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of chemicals and high turbidity wastewaters during transportation, use, storage and disposal may impact the drinking water supply.	Concrete plant.

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
229	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential	Farmstead Rd.	Estacada	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Christmas trees.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
230	Parking Lots/Malls (> 50 Spaces)	Estacada Mini Storage	near River Mill Dam Rd.	Estacada	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Future industrial park; just beginning to develop.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
231	Grazing Animals (> 5 large animals or equivalent/acre)	rural residential	SE Heiple Rd.	Eagle Creek	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Pasture lands; Christmas trees; unmanaged forest.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Recent Burn Areas (< 10 yrs.)						Higher	Vegetation removal by fire may increase surface erosion and sediment delivery rates, resulting in high turbidity in drinking water source.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
232	Airport - Maintenance/Fueling Area	Eagle Creek Sky Diving, Beaver Oaks Airport	SE Heiple Rd.	Eagle Creek	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of fuels, de-icers, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
233	Septic Systems - High Density (> 1 system/acre)	Paradise Community Club	at end of Heiple Rd.	Eagle Creek	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	Residential area on river within flood plain.
234	Septic Systems - High Density (> 1 system/acre)	residential	SE Starr Rd.	Eagle Creek	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	On river within flood plain.
235	Septic Systems - High Density (> 1 system/acre)	Twin Island Community	SE Woods Rd. & SE Island Rd.	Eagle Creek	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	Unimproved roads, gravel; on river in flood plain.
236	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	SE Samuels Rd.	Eagle Creek	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Christmas trees; wetlands access off Samuels Rd. Samuels Rd. is located on the Clackamas River.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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237	Grazing Animals (> 5 large animals or equivalent/acre)	rural residential	SE Dowty Rd.	Eagle Creek	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Unmanaged forest lands.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
238	Golf Courses	Eagle Creek Golf Course	25805 SE Dowty Rd.	Eagle Creek	Field-Observation	Outside sensitive areas.	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
239	Land Application Sites	rural residential	SE Talons Rd.	Eagle Creek	Field-Observation	Within sensitive area.	Higher	Improper management of sludge and wastewater may impact drinking water supply.	A09: dirt, blacktop, concrete, gravel dump site.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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240	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential	SE Folsom Rd.	Eagle Creek	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
241	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Old Farm House Nursery	Hereford Rd.	Eagle Creek	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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242	Grazing Animals (> 5 large animals or equivalent/acre)	rural residential	Burnett Rd.	Eagle Creek	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
243	Grazing Animals (> 5 large animals or equivalent/acre)	Barlow Trail Dairy	SE Timm Lane	Eagle Creek	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Active Dairy.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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244	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Hwy. 224	from Hwy. 211 to Barton	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Including both sides of Hwy. 224.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	

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245	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential	Glover Rd. SE	Eagle Creek	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
246	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Rainbow Greenhouse	28437 Hwy. 224	Eagle Creek	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
247	Transmission Lines - Right-of-Ways	rural residential	SE Dale Lane, northeast of Hwy. 224	Eagle Creek	Field-Observation	Within sensitive area.	Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	C14: accumulated inoperable vehicles at private residence.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
248	Boarding Stables	Kingdom Farm Saddle Breeds	28544 SE Dale Lane	Eagle Creek	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
249	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential	SE Shuttle Rd.	Barton	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	M17: BPA Lines (Bonneville Power Administration).
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
250	Other Shooting Range	Douglas Ridge Gun Club	Hwy. 224	Barton	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
251	Metal Plating/Finishing/Fabrication	Don Sickmann Metal Fab Inc.	272625 Hwy. 224	Barton	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
252	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential	SE Odell Rd.	Barton	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
253	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential	Bartlemay Rd. SE	Barton	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
254	Machine Shops	R.A. Shoppert Logging	Hwy. 224	Barton	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
255	Homesteads - Rural - Septic Systems (< 1/acre)	small sub-division	26595 Stoneybrook Lane,4/10 of a mile northwest of Bartlemay Rd.	Barton	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Stoney Brook Ln. is not shown on map.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
256	Grazing Animals (> 5 large animals or equivalent/acre)	rural residential	S. Moore Lane	Barton	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
257	Other Feed Store	Barton Feed	25621 Hwy. 224	Barton	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
258	Machine Shops	ELTE Equipment Sales	25701 Hwy. 224, just southeast of Amisigger Rd.	Barton	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	Drainage into Creek.
259	Parking Lots/Malls (> 50 Spaces)	Barton Community Baptist Church	off Hwy. 224	Barton	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
260	Automobiles - Gas Stations	Barton Store & Shell Gas Station	24831 Hwy. 224 SE	Barton	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	

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261	Junk/Scrap/Salvage Yards	salvage yard	25040 Hwy. 224 SE	Barton	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Personal residence and business on-site; approximately 1.5 acres.
262	Junk/Scrap/Salvage Yards	machine shop	24424 Hwy. 224 SE	Barton	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
263	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	Barton to Carver	Barton	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
264	Mines/Gravel Pits	Deep Creek Sand & Gravel	unknown street east of Deep Creek	Barton	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	Drainage into Deep Creek.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
265	Managed Forest Land - Partial Harvest (< 10 yrs.)	rural residence	22015 S Hwy. 224	Barton	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes (ex: nitrates) in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
266	Automobiles - Repair Shops	Gear Heads Auto Repair	21730 S Hwy. 224	Carver	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
267	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	SE 197th Ave.	Carver	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
268	Grazing Animals (> 5 large animals or equivalent/acre)	rural residential	Semple Rd. SE	Carver	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
269	Other Unmanaged Fields	county property	west of 197th, on Hwy. 224 SE	Carver	Field-Observation	Within sensitive area.	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
270	Transportation - Stream Crossing - Perennial	River Rock Nursery	19350 SE Hwy. 224	Carver	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Stormwater Retention Basins						Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
271	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residence	18600 SE Hwy. 224, located 4/10 of a mile southeast of Tong Rd.	Carver	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Pond is located near Richardson Creek.
	Other Pond						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
272	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	Eilers Circle SE	Carver	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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273	Farm Machinery Repair	truck shop	south of Holman Rd.	Clackamas Co (unincorp)	Interview	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
274	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	woodsy pasture with pond	south of Holman Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
275	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	partial harvest in process	south of Holman Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Managed Forest Land - Partial Harvest (< 10 yrs.)						Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes (ex: nitrates) in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
276	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	harvest area	south of Holman Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	

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277	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees, young	Metzler Rd., south of Holman Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
278	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	oats, cover crop	Metzler Rd., south of Holman Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Transition between xmas tree crops.
279	Cemeteries - Pre-1945		cemetery Holman Rd.	Metzler Rd., south of Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Embalming fluids (for example, arsenic) and decomposition by-products may impact drinking water supply.	
280	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture	Metzler Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
281	Other Unmanaged Christmas trees	unmanaged Christmas trees	Metzler Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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282	Farm Machinery Repair	truck shop	Metzler Rd.	Clackamas Co (unincorp)	Field-Observation Interview	Within sensitive area.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
283	Other Managed Forest Lands 35+ yrs	Managed Forest Lands	Metzler Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
284	Parks	Metzler Park	Metzler Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	Developed area = approximately 15 acres.
285	Other Former Christmas Tree Farm	Former Christmas Tree Farm	Warnock Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
286	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	Warnock Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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287	Other Crops - Nonirrigated - Abandoned Christmas Trees	abandoned Christmas trees	Springwater Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
288	Other Crops - Nonirrigated - Abandoned Christmas Trees	abandoned Christmas trees	Springwater Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
289	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	blueberries	Springwater Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
290	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	Springwater Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
291	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	recent clear-cut	Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
292	Other Unmanaged Forest Lands	unmanaged forest lands	Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
293	Transportation - Freeways/State Highways/Other Heavy Use Roads	new highway cut	Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
294	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	recent clearcut area	Highland Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
295	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	new Christmas trees - steep	Highland Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
296	Managed Forest Lands - Status Unknown	old clearcut area	Shibley Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
297	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture area	Shibley Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
298	Automobiles - Repair Shops	auto/farm shop	located on Elwood Rd., between Shibley Rd. & Bittner Mill Rd.		Field-Observation Interview	Just outside DWPA	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Assigned map location requires verification. Site is located beyond DWPA but it may impact the DWPA.
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
299	Boarding Stables	large horse barn & Christmas trees farm	Elwood Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Assigned map location requires verification. Site is located beyond DWPA but it may impact the DWPA.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
300	Homesteads - Rural - Septic Systems (< 1/acre)	forest and rural residential area	upper Elwood Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Site is located beyond DWPA but it may impact the DWPA.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
301	Grazing Animals (> 5 large animals or equivalent/acre)	confined pasture	Morgan Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
302	Grazing Animals (> 5 large animals or equivalent/acre)	overgrazed pasture	Morgan Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Overgrazed pasture; steep slope with exposed soil.
303	Grazing Animals (> 5 large animals or equivalent/acre)	overgrazed pasture	Morgan Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Overgrazed pasture; steep slope with exposed soil.
304	Grazing Animals (> 5 large animals or equivalent/acre)	overgrazed pasture	Hillockburn Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Overgrazed pasture; steep slope with exposed soil.
305	Food Processing	small scale meat processing business	Hillockburn Rd.	Clackamas Co (unincorp)	Interview	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
306	Automobiles - Repair Shops	truck repair shop	Hillockburn Rd.	Clackamas Co (unincorp)	Field-Observation Interview	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
307	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area - < 10 yrs	Hillockburn Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
308	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture	located on the west side of Habelt Rd., just north of Hillockburn Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
309	Wood/Pulp/Paper Processing and Mills	small sawmill	located on the west side of Habelt Rd., south of Skinner Rd.	Clackamas Co (unincorp)	Interview	Within sensitive area.	Higher	Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
310	Landfill/Dumps	fill	located on east side of Habelt Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Water percolating through the landfill waste material may transport contaminants to groundwater or surface water supply.	Nature if fill unknown.

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311	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area - < 10 yrs old	located on the east side of Kinzy Rd., north of Skinner Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Site is located beyond DWPA but it may impact the DWPA.
312	Junk/Scrap/Salvage Yards	auto junk yard - old	located on the west side of Kinzy Rd., south of Tucker Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
313	Construction/Demolition Areas	land clearing	located on the west side of Kinzy Rd., south of Tucker Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Construction/demolition activities may contribute to erosion and increased turbidity in surface water drinking water supplies. Equipment usage increases the risks of leaks or spills of fuels and other chemicals.	
314	Other Unknown Operations - Industrial/Agricultural Processing - small scale	unknown operations - industrial/agricultural processing - small scale	Skinner Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Nature of business unknown; 55-gallon drums, fork lift and stove/vent pipe are present at location. Potential risk should be verified
315	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	Skinner Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
316	Farm Machinery Repair	logging equipment homebase	Century Rd.	Clackamas Co (unincorp)	Field-Observation Interview	Within sensitive area.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
317	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	Century Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
318	Farm Machinery Repair	logging equipment homebase	Windy Hill Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
319	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas	feed store, equipment and fertilizer	Springwater Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
320	Cemeteries - Pre-1945		cemetery	Jubb Rd. Clackamas Co (unincorp)	Field-Observation	sensitive areas.	Outside Lower	Embalming fluids (for example, arsenic) and decomposition by-products may impact drinking water supply.	

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321	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	Clear Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
322	Transmission Lines - Right-of-Ways	transmission line easement	Stormer Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
323	Other Pond	container nursery with pond	Stormer Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
324	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	Spring Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Small nursery near tributary.
325	Other Pond	channeled ditch - new pond	Mattoon Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
326	Housing - High Density (> 1 House/0.5 acres)		rural residential	Mattoon Rd. Co (unincorp)	Clackamas Observation	Field-sensitive area.	Within	Moderate Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Residential; 1/2 acre parcels.
327	Other Pond	new pond	Mattoon Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
328	Confined Animal Feeding Operations (CAFOs)	confined livestock	Mattoon Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Confined livestock; manure pile near creek.
329	Other Crops - Nonirrigated - Abandoned Christmas Trees	abandoned Christmas trees	Mattoon Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
330	Other Unmanaged Forest	Unmanaged Forest	Fellows Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
331	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas Trees	Fellows Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
332	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area - < 10 yrs	Fellows Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
333	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area - < 5 yrs	Fellows Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
334	Grazing Animals (> 5 large animals or equivalent/acre)	confined animals	Fellows Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
335	Channel Alterations - Heavy	culvert	Forest Park Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Construction or maintenance of channel may cause erosion, resulting in increase in turbidity of surface water. Improper stream alterations may also contribute to increase in potential for flooding.	Possible problem with culvert present.
336	Confined Animal Feeding Operations (CAFOs)	poultry barns - large	Schockley Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
337	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	Lewellen Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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338	Managed Forest Land - Partial Harvest (< 10 yrs.)	partial cut area - < 5 yrs	Upper Highland Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes (ex: nitrates) in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
339	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	recent clearcut area	Ridge Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
340	Land Application Sites	paper mill sludge storage site	Ridge Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Improper management of sludge and wastewater may impact drinking water supply.	Site is located beyond DWPA but it may impact the DWPA.
341	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	new clearcut area	Redland Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
342	Farm Machinery Repair	logging/truck maintenance shop	Redland Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	

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343	Transmission Lines - Right-of-Ways	transmission line easement	Redland Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
344	Grazing Animals (> 5 large animals or equivalent/acre)	horse barn	Fischer's Mill Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Horse barn; possible boarding stable.
345	Housing - High Density (> 1 House/0.5 acres)		residential area north side	off Fischer's Mill Rd., on Co (unincorp)	Field-Observation	Clackamas sensitive areas.	Outside Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
346	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	recent clearcut	Fischer's Mill Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
347	Confined Animal Feeding Operations (CAFOs)	Feedlot	Fischer's Mill Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
348	Other Fish Hatchery	private fish hatchery	Sherwood Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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349	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area	Sherwood Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Area needs reforestation.
350	Grazing Animals (> 5 large animals or equivalent/acre)	stables	Ridge Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
351	Farm Machinery Repair	tractor repair and fertilizer storage	Fischer's Mill Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	PCS site is located next to creek.
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
352	Grazing Animals (> 5 large animals or equivalent/acre)	muddy animal yard with pond	Fischer's Mill Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Assigned map location requires verification.
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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353	Land Application Sites	municipal sludge application	off Strow Bridge - west	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper management of sludge and wastewater may impact drinking water supply.	
354	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	recent clearcut and residential area	Hattan Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Recent clearcut area, 4-acre new development, 3 lots.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
355	Other Pipeline Easement	pipeline easement	Edgewood St.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Minor ditch channel and natural gas pipeline easement.
356	Channel Alterations - Heavy	raw land channel modification	Hattan Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Construction or maintenance of channel may cause erosion, resulting in increase in turbidity of surface water. Improper stream alterations may also contribute to increase in potential for flooding.	Soil erosion present at site.
357	Grazing Animals (> 5 large animals or equivalent/acre)	horse boarding and pasture land	Hattan Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Unmapped minor tributary in vicinity.
358	Other Fish Hatchery	Indian Springs Trout Farm	Hattan Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
359	Other Land Use Unknown	seasonal operation	Gerber Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Potential risk should be verified. Unknown operations - needs verification.
360	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	commercial nursery	Harris Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
361	Junk/Scrap/Salvage Yards	auto junk	Baker's Ferry Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	10+ vehicles on site. Potential risk should be verified.
362	Cemeteries - Pre-1945		cemetery	Springwater Rd. Co (unincorp)	Field-Observation	Within Lower Clackamas sensitive area.		Embalming fluids (for example, arsenic) and decomposition by-products may impact drinking water supply.	
363	Junk/Scrap/Salvage Yards	auto/truck junk, building demolition junk	Springwater Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Presence of chemicals possible.
364	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	recent clearcut area	Bradley Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	

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365	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	recent clearcut area - small	Eaden Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
366	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	ditched pasture area with little shade	Eaden Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
367	Transmission Lines - Right-of-Ways	Earl D. Ostrander Substation	16885 Eaden Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
368	Channel Alterations - Heavy	channel modification, no cover, agricultural	Harding Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Construction or maintenance of channel may cause erosion, resulting in increase in turbidity of surface water. Improper stream alterations may also contribute to increase in potential for flooding.	

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369	Transmission Lines - Right-of-Ways	powerline row divide	Harding Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
370	Large Capacity Septic Systems (serves > 20 people) - Class V UICs	Morning Way Sunrise Village Mobile Home Park	152nd Ave. & Morning Way	Clackamas Co (unincorp)	Database (2)	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
371	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	M. Snyder's Landscape - Contractor	14763 Morning Way	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
372	Office Buildings/Complexes	office space	Morning Way	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
373	Grazing Animals (> 5 large animals or equivalent/acre)	farm - grazing animals	located on the east side of 152nd Ave., just north of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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374	Large Capacity Septic Systems (serves > 20 people) - Class V UICs	Ridgewood Mobile Home Park	152nd Ave. & Louise Lane	Clackamas Co (unincorp)	Database (2)	Outside sensitive areas.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
375	Schools	Oregon Trail Elementary School	13895 at 152nd Ave. & Oregon Trail Dr.	Clackamas Co (unincorp)	Database (2)	Outside sensitive areas.	Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	
376	Lawn Care - Highly Maintained Areas	residential area - high density	between 142nd Dr. & 152nd Dr. to Sunnyside Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
377	Parking Lots/Malls (> 50 Spaces)	Sunnyside Village Mall	147th Ave. & Sunnyside Rd. - south side	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
378	Other Water or Wastewater Pump Station	pump station	north of Sunnyside Rd. at 147th Ave.	Clackamas	Field-Observation	Outside sensitive areas.	Moderate	The impacts to this potential contaminant source will be addressed during the enhanced inventory.	

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379	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	grasslands	north of Sunnyside Rd. - grassy butte facing south, east of 162nd Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Future land use - high density residential. Potential future land use.
380	Airport - Maintenance/Fueling Area	Trohs Memorial Airport	Airport Rd. off Vradenburg & 162nd Ave.	Clackamas	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of fuels, de-icers, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
381	Medical/Vet Offices	Sunnyside Veterinary Clinic	159th Ave. & Sunnyside Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Spills, leaks, or improper handling of x-ray, biological, chemical, and radioactive wastes and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
382	Fleet/Trucking/Bus Terminals	G.T.E. Service & Maintenance Shop	Sunnyside Rd. & Rock Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Adjacent to Rock Creek, small riparian.
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	

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383	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas	Pleasant Valley Golf course	162nd Ave. & Monner Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	No riparian.
	Golf Courses						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	No riparian.
384	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential - mixed	162nd Ave. & Monner Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	A04: vineyard.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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385	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	agricultural - pepper crop	162nd Ave. - east side - just north of Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
386	Confined Animal Feeding Operations (CAFOs)	dairy farm	located on the west side of 162nd Ave., north of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Feed lot above creek (check riparian).
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
387	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential	162nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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388	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	George's Garden - Nursery	165th Ave. & Sunnyside Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Business is located near Rock Creek.
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
389	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	agricultural - squash field	east of 172nd Ave., at Armstrong Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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390	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Fisher Excavating	west of 172nd Ave., at Armstrong Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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391	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	agricultural - farm and pepper crop	14292 172nd Ave. - east of 172nd Ave., at top of hill	Clackamas Co (unincorp)	Interview	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Undetectable trucking business at location.
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	

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392	Large Capacity Septic Systems (serves > 20 people) - Class V UICs	Rock Creek Green	west of 172nd Ave., at bottom of hill	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	Rock Creek (no riparian).
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
	Septic Systems - High Density (> 1 system/acre)						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	
393	Parking Lots/Malls (> 50 Spaces)	church	172nd Ave. & Sunnyside Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
394	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas	nursery - small, unnamed	12525 172nd Ave. - east of 172nd Ave., north of Sunnyside Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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395	Stormwater Outfalls	Pleasant Valley Nursery	Troge Rd. at 172nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Stormwater run-off may contain contaminants from residential (homesites and roads), commercial/industrial, and agricultural use areas.	Creekside no riparian zone.
	Channel Alterations - Heavy						Higher	Construction or maintenance of channel may cause erosion, resulting in increase in turbidity of surface water. Improper stream alterations may also contribute to increase in potential for flooding.	
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
396	Grazing Animals (> 5 large animals or equivalent/acre)	llama farm	172nd Ave. & Hemrick Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	No riparian.
397	Parking Lots/Malls (> 50 Spaces)	future church site	172nd Ave. & Hemrick Rd. - north	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Parking lot demolition project.

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398	Automobiles - Repair Shops	car repair business	east of 172nd Ave., before Wooded Heights Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Future urban area. Potential future land use.
399	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential - mixed rural and medium density housing	Sunnyside Rd., east of 172nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
400	Medical/Vet Offices	Damascas Veterinary Clinic	located on the south side of Sunnyside Rd., near Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Spills, leaks, or improper handling of x-ray, biological, chemical, and radioactive wastes and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
401	Automobiles - Repair Shops	U-Pull-It Car Lot	located on the south side of Sunnyside Rd., north of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
402	Junk/Scrap/Salvage Yards	Army Surplus	located on the north side of Sunnyside Rd. at Hwy. 212 intersection	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
403	Fleet/Trucking/Bus Terminals	Brundidge Construction Parking Lot	located on the west side of Foster Rd., just north of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Unpaved parking for heavy construction equipment.
404	Drinking Water Treatment Plants	Damascus Water District	located off the west side of Foster Rd. on Damascus Lane, north of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Treatment chemicals and equipment maintenance materials may impact groundwater or surface water source.	
405	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential - mixed	east side of Foster Rd., just north of High Ridge Ct.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	No riparian.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
406	Channel Alterations - Heavy	channelized creek	east of Wiese Rd., on Bohna Park Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Construction or maintenance of channel may cause erosion, resulting in increase in turbidity of surface water. Improper stream alterations may also contribute to increase in potential for flooding.	Resident channelized and cleared riparian; private culvert above.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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407	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area	located on east side of Wiese Rd., south of Bohna Park Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
408	Transportation - Freeways/State Highways/Other Heavy Use Roads	transportation corridors	Hwy. 212 & Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
409	Grazing Animals (> 5 large animals or equivalent/acre)	farm - heavy grazing	Vogel Rd., just east of 172nd Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
410	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential - mixed	located at the end of SE Delia St., just north of Rock Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
411	Other Wedding Site with Septic System and Parking Lots	Commercial Weddings & Events	Tillstrom Rd. - west, south of Borges Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	

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412	Other Future Urban Area - High Density	future urban area - Pleasant Valley	2 lots into Clackamas County, area located west of Foster Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Potential future land use.
413	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential - mixed	located on the west side of Wiese Rd., just south of Dogwood Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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414	Lawn Care - Highly Maintained Areas	channelized creek with culvert in residential area	Alder Springs Ct., located on the west side of Weise Rd., north of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	Check for presence of fish.
	Channel Alterations - Heavy						Higher	Construction or maintenance of channel may cause erosion, resulting in increase in turbidity of surface water. Improper stream alterations may also contribute to increase in potential for flooding.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
415	Septic Systems - High Density (> 1 system/acre)	Damascus Village	Damascus - Hwy. 212, east of Foster Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	M02: Channel alterations located at city park; no riparian.
	Parks						Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	
	Channel Alterations - Heavy						Higher	Construction or maintenance of channel may cause erosion, resulting in increase in turbidity of surface water. Improper stream alterations may also contribute to increase in potential for flooding.	
	Fire Station						Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
	Historic Gas Stations						Higher	Historic spills, leaks, or improper handling of solvents and petroleum products may impact the drinking water supply. Abandoned underground storage tanks may be present.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
415	Office Buildings/Complexes	Damascus Village	Damascus - Hwy. 212, east of Foster Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	M02: Channel alterations located at city park; no riparian.
	Medical/Vet Offices						Lower	Spills, leaks, or improper handling of x-ray, biological, chemical, and radioactive wastes and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Automobiles - Gas Stations						Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	
	RV/Mini Storage						Lower	Spills, leaks, or improper handling of automotive fluids and other materials during transportation, storage and disposal may impact the drinking water supply.	
	Furniture/Lumber/Parts Stores						Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	

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416	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential - mixed	Royer Road & SE Barlow Court	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Culvert and no riparian.
	Schools						Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	
	Apartments and Condominiums						Lower	Improper use, storage, and disposal of household and facility maintenance chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to water supply.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	

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417	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential area and housing development	located at 222nd Ave. & Regner Terr., just south of Peggy Ann Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	High density septic systems.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	

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418	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	232nd Ave., north to south	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	

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419	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	residential area - mixed rural and low density	Weatherly Ln., located on the west side of 232nd Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Including entire area from north to south.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Septic Systems - High Density (> 1 system/acre)						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	

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420	Farm Machinery Repair	residential area - mixed rural and low density	Royer Rd., located south of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	Including entire area from north to south.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
	Medical/Vet Offices						Lower	Spills, leaks, or improper handling of x-ray, biological, chemical, and radioactive wastes and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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421	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	residential area - mixed rural and low density	Hwy. 212 to Tong Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Cemeteries - Pre-1945						Lower	Embalming fluids (for example, arsenic) and decomposition by-products may impact drinking water supply.	

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422	Lawn Care - Highly Maintained Areas	residential area - mixed rural and low density	Tong Rd., located south of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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423	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Sunshine Valley Nursery	located on Richardson Creek at the end of Keller Rd. - off east side of Tong Rd.	Clackamas Co (unincorp)	Clackamas Observation	Field-sensitive area.	Within Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Assessment of riparian area is needed. Potential risk should be verified.
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
424	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Calcagno Farms	Richardson Creek & Hwy. 224, on south side of Hwy. between Tong and Marina Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Crops - various. +

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425	Large Capacity Septic Systems (serves > 20 people) - Class V UICs	Stillmeadow Retreat Center	Marina Rd. off Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
426	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	Van Curren Rd., north of Wildcat Mountain Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Area includes pasture on east and west side of road.
427	Grazing Animals (> 5 large animals or equivalent/acre)	Dormon Kennels	east side of Van Currin Rd., south of Valentine Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Horses; grass.
	Kennels (> 20 Pens)						Moderate	Improper storage, management, and disposal of animal wastes and wastewater in areas of concentrated animals may impact drinking water.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
428	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	both east and west sides of Van Currin Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Horses; grass.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
429	Transportation - Stream Crossing - Perennial	creek crossing	Goose Creek on Van Currin Rd., north of Valentine Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Possible culvert project.
430	Grazing Animals (> 5 large animals or equivalent/acre)	pasture land and Christmas trees	east and west side of Van Currin Rd., north of Goose Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Horses; grass.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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431	Grazing Animals (> 5 large animals or equivalent/acre)	pasture land	Filbert Rd., west of Van Currin Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Horses; Christmas trees.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
432	Housing - High Density (> 1 House/0.5 acres)	trailer	residential - travel Walnut Ave.	23930 Filbert Rd., north of Co (unincorp)	Field-Observation	Within Moderate sensitive area.		Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Possible culvert project; 6-inch perched culvert, DS-3 18-inch culverts.

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
433	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential with shop	Filbert Rd., on south side of Goose Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Stream crossing, good passage; cows graze to creek. Possible fencing project. Needs trees.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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434	Grazing Animals (> 5 large animals or equivalent/acre)	rural residential area	east and west side of Filbert Rd., north of Goose Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Horses; grass.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
435	Other Deciduous Woodland	oak woodlands	Filbert Rd., north of Suter Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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436	Transportation - Stream Crossing - Perennial	creek crossing and bridge	located at the end of Suter Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Two large ponds piped to creek; complete blockage.
	Upstream Reservoirs/Dams						Moderate	During major storm events, reservoirs may contribute to prolonged turbidity for downstream intakes for drinking water. Construction, fluctuating water levels, and heavy waterside use can increase erosion and turbidity in reservoir/drinking water source.	
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
437	Other Pond	pasture land	Filbert Rd., north of Suter Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Horses; cattle.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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438	Other Pond	rural residential	south side of Jackknife Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Rural residential, with shop and pond.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
439	Automobiles - Gas Stations	gasoline station	Hwy. 211 & Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
440	Boarding Stables	agricultural land	north side of Hwy. 224, east of Amistad Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Blueberry crops; hay; pasture lands; horses; stable.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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441	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	tool and die maker/metal fabrication	northwest corner of Glover Rd. & Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Cattle; grass.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Metal Plating/Finishing/Fabrication						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
442	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	german shepherd kennel and nursery	located on the west side of Hwy. 224, south of Dale Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Kennels (> 20 Pens)						Moderate	Improper storage, management, and disposal of animal wastes and wastewater in areas of concentrated animals may impact drinking water.	

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443	Grazing Animals (> 5 large animals or equivalent/acre)	nursery on creek - disturbed riparian area	Hwy. 224 at Goose Creek crossing	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Creek crossing; green houses. Needs riparian reclamation; no cover. Possible project.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
444	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops, berries	northeast corner of Hwy. 212 & 222nd Dr., at Wetzels Corner	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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445	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residence with shop	south side of Hwy. 212, between 222nd & 232nd Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
446	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops, berries	south side of Hwy. 212, between 232nd Dr. & 248nd Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Centry Farms.
447	Above Ground Storage Tanks - Excluding Water	above ground fuel tanks - old	south side of Hwy. 212, between 232nd Dr. & 242nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
448	Transportation - Stream Crossing - Perennial	Saint Paul Church	south side of Hwy. 212, between 242nd Ave. & Hollyview Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
449	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residential with shop	north side of Hwy. 212, west of Bartel Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Assigned map location requires verification.

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450	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	nursery	north and south side of Hwy. 212, Bartel Rd. - 257th Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Nursery stock; Christmas trees.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
451	Parking Lots/Malls (> 50 Spaces)	Holly View Baptist Church	north side of Hwy. 212, west of 257th Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Large paved parking lot.
452	Boarding Stables	large barn/stables	south side of Hwy. 212 at 257th Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
453	Kennels (> 20 Pens)	Green Acre Dog Kennel	north side of Hwy. 212, west of 257th Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Improper storage, management, and disposal of animal wastes and wastewater in areas of concentrated animals may impact drinking water.	

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454	Above Ground Storage Tanks - Excluding Water	commercial construction storage facility	26180 SE Hwy. 212 - south side of Hwy.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	Major commercial construction facility: equipment storage, equipment repair, junkyard, and above ground storage tanks.
	UST - Status Unknown						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Chemical/Petroleum Processing/Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	

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454	Junk/Scrap/Salvage Yards	commercial construction storage facility	26180 SE Hwy. 212 - south side of Hwy.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Major commercial construction facility: equipment storage, equipment repair, junkyard, and above ground storage tanks.
455	Confined Animal Feeding Operations (CAFOs)	Meier Dairy Farm	northwest side of Hwy. 212, near 272nd Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
456	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	northeast side of Hwy. 212 & 272nd Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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457	Furniture/Lumber/Parts Stores	Boring Industrial Park	27600 SE Hwy. 212 on Deep Creek - on south side of Hwy.	Boring	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	Furnace repair; auto/transmission epair.
	Wood/Pulp/Paper Processing and Mills						Higher	Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Chemical/Petroleum Processing/Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Cement/Concrete Plants						Moderate	Spills, leaks, or improper handling of chemicals and high turbidity wastewaters during transportation, use, storage and disposal may impact the drinking water supply.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Automobiles - Body Shops						Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
457	Metal Plating/Finishing/Fabrication	Boring Industrial Park	27600 SE Hwy. 212 on Deep Creek - on south side of Hwy.	Boring	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Furnace repair; auto/transmission repair.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
458	Fleet/Trucking/Bus Terminals	Boring Rural Area - Business & Community	Hwy. 212, from Richey Rd. to north of 282nd Ave.	Boring	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Boring Elementary/Middle School - School Rd. & Dee Street. Car repair, gas station, and truck storage - Hwy. 212 & Dee Street. Lumber hardware on 282nd Ave. - north of town. Abandoned Cazadero Railroad Line and yard.
	Office Buildings/Complexes						Lower	Spills, leaks, or improper handling of chemicals and other materials stored and used in maintenance or from parking areas may impact the drinking water supply.	
	Railroad Yards/Maintenance/Fueling Areas						Higher	Spills, leaks, or improper handling of fuels and other materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
458	Housing - High Density (> 1 House/0.5 acres)	Business & Community	Boring Rural Area - to north of 282nd Ave.	Hwy. 212, from Richey Rd.	Observation	Boring sensitive areas.	Field- Outside Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Boring Elementary/Middle School - School Rd. & Dee Street. Car repair, gas station, and truck storage - Hwy. 212 & Dee Street. Lumber hardware on 282nd Ave. - north of town. Abandoned Cazadero Railroad Line and yard.
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Transportation - Railroads						Higher	Rail transport elevates the risk for leaks/spills of fuel & other haz. materials. Installation/maintenance of tracks may increase erosion & slope failure causing turbidity. application/improper handling of pesticides may impact the water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
458	Schools	Boring Rural Area - Business & Community	Hwy. 212, from Richey Rd. to north of 282nd Ave.	Boring	Field-Observation	Outside sensitive areas.	Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	Boring Elementary/Middle School - School Rd. & Dee Street. Car repair, gas station, and truck storage - Hwy. 212 & Dee Street. Lumber hardware on 282nd Ave. - north of town. Abandoned Cazadero Railroad Line and yard.
	Furniture/Lumber/Parts Stores						Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	
	Chemical/Petroleum Processing/Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Boat Services/Repair/Refinishing						Higher	Spills, leaks, or improper handling of fuels, septage, maintenance chemicals, sandblasting wastes, paints, and other materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
458	Automobiles - Gas Stations	Boring Rural Area - Business & Community	Hwy. 212, from Richey Rd. to north of 282nd Ave.	Boring	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	Boring Elementary/Middle School - School Rd. & Dee Street. Car repair, gas station, and truck storage - Hwy. 212 & Dee Street. Lumber hardware on 282nd Ave. - north of town. Abandoned Cazadero Railroad Line and yard.
	Automobiles - Body Shops						Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
459	Parking Lots/Malls (> 50 Spaces)	Boring Fire Station and Post Office	located of the north side of Hwy. 212, east of 282nd Dr.	Boring	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Fire Station						Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
460	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	John Holmund Nursery - possible project	29281 SE Hwy. 212 - north side of Hwy., north of Lani Ln.	Boring	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	DCP 8 - Deep Creek - bulldozed to stream edge; no trees. Approximately 1/2 mile of stream. Possible project.
461	Junk/Scrap/Salvage Yards	junkyard	south side of Hwy. 212, between Burt & Lani Ln.	Boring	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Old construction equipment present on site.
462	Other Abandoned Stock Nursey	stock nursery	south side of Hwy. 212, between Burt & Lani Ln.	Boring	Field-Observation	Within sensitive area.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Potential future land use.

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
463	Chemical/Petroleum Processing/Storage	Chambers Equipment, Sales, Storage, Repair/ U-Pull-It	north side of Hwy. 212, west of Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	UST - Status Unknown						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
	Railroad Yards/Maintenance/Fueling Areas						Higher	Spills, leaks, or improper handling of fuels and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Automobiles - Body Shops						Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Above Ground Storage Tanks - Excluding Water						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
464	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries & pumpkins	northeast corner of Compton Rd. & 312th Dr., on east side of Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
465	Parking Lots/Malls (> 50 Spaces)	gasoline station, restaurant, model railroad	South east corner of Comton Rd. & 312th Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Hobby type railroad.
	Historic Gas Stations						Higher	Historic spills, leaks, or improper handling of solvents and petroleum products may impact the drinking water supply. Abandoned underground storage tanks may be present.	
	Railroad Yards/Maintenance/Fueling Areas						Higher	Spills, leaks, or improper handling of fuels and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
466	Other Poultry Slaughter House	poultry slaughter house	on west side of 312th Dr., just north of Compton Rd., northeast of Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
467	Parking Lots/Malls (> 50 Spaces)	baseball field and parking lot	SE 312th Dr., north of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Parks						Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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468	Parking Lots/Malls (> 50 Spaces)	business	SE 312th Dr., south of Dolan Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
469	Boarding Stables	stable	11681 SE 312th Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
470	Furniture/Lumber/Parts Stores	businesses - including Chester Drawers	south of, and including, 11131 SE Orient Dr., south of Joette Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	Businesses include: small engine repair, tool repair, P.G.E. transformer storage, and cabinetry/furniture.
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
471	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residence with shop	located on north side of Joette Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
472	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residence with shop	30465 SE Joette Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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473	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	abandoned cars - pasture land	30330 SE Joette Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Assigned map location requires verification.
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
474	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	green house	31050 SE Joette Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Assigned map location requires verification.
475	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	stock nursery	located on east side of intersection, Haley Rd. & Orient Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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476	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	stock nursery and Christmas trees	30564 SE Haley Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Christmas trees, nursery stock shop.
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
477	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residence with shop and farm	30205 SE Haley Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Blueberry farm.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
478	Other Old Farm Worker Housing	rural residential - old farm worker housing	at corner of Cindy Ln. & Haley Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Site is located beyond DWPA but it may impact the DWPA.

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479	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residential with shop - large housing development	10230 Cindy Ln.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Site is located beyond DWPA but it may impact the DWPA.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
480	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	south side of Haley Rd., west of Cindy Ln.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Site is located beyond DWPA but it may impact the DWPA.
481	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	tree nursery	north side of Haley Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Maple, black pine, and vine maple trees. Site is located beyond DWPA but It may impact the DWPA.
482	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	green house	west side of McCreary Ln.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Site is located beyond DWPA but it may impact the DWPA.

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483	Random Dump Sites	nursery - possible project	10702 McCreary Ln. - on east side of road	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	Stock nursery, six large green houses, abandoned cars. Possible project, 1/2 acre clearing without erosion control - DCP 8. Site is located beyond DWPA but it may impact the DWPA.
	Other Land Clearing - No Erosion Control						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
484	Transportation - Freeways/State Highways/Other Heavy Use Roads	Highway 26	runs through protection area	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	

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485	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	north side of Haley Rd., east of Berry Good Fruit Stand	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	5+ acres.
486	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	south side of Compton Rd., east of Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
487	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery and pasture land	south side of Compton Rd., east of Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Horses.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
488	Other Pond	Pond	11965 SE Revenue Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
489	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery and berries	12072 SE Revenue Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Stream crossing.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
490	Grazing Animals (> 5 large animals or equivalent/acre)	pasture land - cattle	north side of Revenue Rd., south of Chin St.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
491	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	south side of Revenue Rd., south of Chin St.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Trees.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
492	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	32695 SE Brooks Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Nursery, berries, and equipment storage.
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
493	Other Unknown agricultural operation	unknown business operation	22800 SE Brooks Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Possible nature of business may be poultry or birds. Potential risk should be verified. Unknown operations - needs verification.
494	Automobiles - Repair Shops	automotive shop	33333 SE Brooks Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Race cars.
	Automobiles - Body Shops						Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
495	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Overton's Nursery	33426 SE Brooks Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Commercial nursery.
496	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	green houses	34020 SE Brooks Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
497	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Commercial ornamental grasses	34045 SE Brooks Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Abandoned trucks.
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
498	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	34175 SE Brooks Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Commercial nursery and green houses.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
499	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	11223 SE Brooks Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Commercial nursery and green houses.
500	Transportation - Stream Crossing - Perennial	foodcrops - berries	352nd Ave., south of Brooks Rd., north of Riggs Acres	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Stream crossing and berry farm. Abandoned cars noted on 352nd Ave. at Hauglum Rd.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
501	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Northwest Shade Trees	Dunn Rd. at 352nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
502	Transportation - Stream Crossing - Perennial	nursery	34591 SE Compton Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Nursery, berries and stream crossing.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
503	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	SE Compton Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Stock nursery.
504	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	west side of Orient Rd., south of Compton Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Commercial nursery.
505	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	east side of Orient Rd., south of Compton Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Commercial nursery.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
506	Large Capacity Septic Systems (serves > 20 people) - Class V UICs	mobile home park	13025 SE Orient Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Septic Systems - High Density (> 1 system/acre)						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	
507	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	High Forest Farm and Schmidt & Sons	13355 SE Orient Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Tree farm, nursery, and large parking lot.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
508	Automobiles - Gas Stations	Gas Station	across from 13355 SE Orient Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	
509	Septic Systems - High Density (> 1 system/acre)	rural residential	off east side of Orient Dr. on Bobby Bruce Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
510	Parking Lots/Malls (> 50 Spaces)	Living World Fellowship	south of 13047 Bobby Bruce Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Gravel parking lot.
511	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the southeast side of Orient Dr., across from Bobby Bruce Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Commercial nursery.
512	Railroad Yards/Maintenance/Fueling Areas	private railroad	340th Ct., north of Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of fuels and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Hobbyist railroad.
513	Homesteads - Rural - Machine Shops/Equipment Maintenance	large storage building	33930 SE Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
514	Homesteads - Rural - Machine Shops/Equipment Maintenance	small dump trucking operation	northeast corner of Kelso Rd. at Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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515	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas	Geren's Feed & Farm Supply	southeast corner of Kelso Rd. & Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	Auto repair.
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Chemical/Petroleum Processing/Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
516	Kennels (> 20 Pens)	Guide Dogs for the Blind	Kelso Rd., west of Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Improper storage, management, and disposal of animal wastes and wastewater in areas of concentrated animals may impact drinking water.	
517	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery/golf course	west side of 329th Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Golf Courses						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
518	Boarding Stables	Camelot Farms	15909 SE 329th Ave. - 329th Ave. south of Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Stables and large pond.
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
519	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	east and west side of 322nd Ave., north of Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Nursery and strawberries.
520	Automobiles - Repair Shops	Reynolds Excavating	located at the end of 322nd Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Heavy equipment storage on-site.
	Chemical/Petroleum Processing/Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
521	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	agricultural area/nurseries	322nd Ave., south of Kelso Rd. on east and west side of street	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
522	Random Dump Sites	abandoned cars	across from 15800 SE 322nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
523	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Don Schmidt Nursery	Kelso Rd., east of Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Commercial nursery.
524	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Leipolds Berries	south side of Kelso Rd., from Amsigger Rd. to 287th Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
525	Golf Courses	Mt.View Golf Course - possible partnering	north side of Kelso Rd., west of Richey Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	Possible partnering - DCP 6. Grass sporadically extends to edge of creek in riparian area.
526	Golf Courses	Greenleaf Golf Course	south side of Kelso Rd., west of Amsigger and east of 262nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
527	Grazing Animals (> 5 large animals or equivalent/acre)	stable - possible project	312th Ave., south of Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Stable; oil truck storage; horse access to creek; bad soil/siltation condition present. Project possible - DCP 1.
	Chemical/Petroleum Processing/Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
528	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	east and west side of 312th Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Commercial container nursery - drip irrigation system.
529	Kennels (> 20 Pens)	kennel	14605 SE 312th Ave. at Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Improper storage, management, and disposal of animal wastes and wastewater in areas of concentrated animals may impact drinking water.	

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530	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Islie Nursery	Kelso Rd., west of 312th Ave., on south side of street	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Ornamentals.
531	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	dairy farm	Kelso Rd., west of 312th Ave., on north side of Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Cattle; pasture land.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
532	Grazing Animals (> 5 large animals or equivalent/acre)	cattle/pasture land	29640 Kelso Rd., on south side	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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533	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Bithel Farms	northeast corner of Frank Ave. & Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Berries, farm and equipment; oil storage tank.
	UST - Status Unknown						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
534	Farm Machinery Repair	equipment repair shop	14360 SE Frank Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	Heavy equipment repair.
535	Random Dump Sites	dumpsite - miscellaneous	13865 SE Frank Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	Abandoned vehicles.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
536	Grazing Animals (> 5 large animals or equivalent/acre)	pond, stream crossing - possible project	29592 SE Church Rd., on south side of Church Rd., east of Frank Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Pond; stream crossing; cattle in stream; heavy erosion of riparian area. Possible project - DCP 2.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Other Pond						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
537	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	nursery	30500 SE Church Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Nursery, pasture land.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
538	Other Pond	Stockman Nursery Sales - possible project	northwest corner of Church Rd. & 312th Ave., on west side of 312th Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Greenhouses in riparian area; stream turbidity; ponds. Project possible - DCP 3.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
539	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	cattle - possible project	312th Ave., north of Church Rd., on east side of 312th Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Cattle access to stream; extreme turbidity. Project possible - DCP 4.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
540	Transportation - Stream Crossing - Perennial	farm - possible project	on west side of 312th Ave., south of Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Farm located on creek; extreme turbidity in creek; pasture land. Possible project - DCP 5.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
541	Transportation - Stream Crossing - Perennial	Steven's Machine Welding	13697 SE 312th Ave., south of Church Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Heavily eroded intermittent stream.
	Metal Plating/Finishing/Fabrication						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
542	Other - Unknown Agriculture Operation	farm buildings	south of Church Rd., across the street from 13697 SE 312th Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Heavily eroded intermittent stream. Several large buildings - use unknown, possible agricultural use. Potential risk should be verified . Unknown operations - needs verification.
543	Confined Animal Feeding Operations (CAFOs)	poultry or rabbit farm/nursery	31265 SE 312th Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Nursery and poultry, or rabbit, housing.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
544	Grazing Animals (> 5 large animals or equivalent/acre)	dairy farm	west of 29640 SE Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Confined Animal Feeding Operations (CAFOs)						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
545	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	berry farm	south side of Kelso Rd. at Frank Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
546	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	west side of 287th Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Commercial nursery, possibly Islie or Leipold's.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
547	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Leipolds Farms	Richey Rd., south of Sylvan Way	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Pumpkins, corn, berries.
548	Lagoons/Liquid Wastes	Wastewater Treatment Plant	on west side of Richey Rd., south of Hwy. 212 on Deep Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper seepage or overflows of liquid wastes may impact the drinking water supply.	Boring - Deep Creek.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Wastewater Treatment Plants/Collection Stations						Higher	Improper management of wastewater, treatment chemicals, or equipment maintenance materials may impact drinking water supply.	
549	Housing - High Density (> 1 House/0.5 acres)		residential area	Sylvan Way, east of Richey Rd.	Co (unincorp) Field-Observation	Clackamas sensitive area.	Within Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
550	Parking Lots/Malls (> 50 Spaces)	Eastmont Bible Church	13400 SE Church Rd., east of 282nd Ln., on the south side of Church Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
551	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residence & shop	27995 SE Church Rd., west of 285th Ave. on north side	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
552	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residence & shop	28500 SE Church Rd., west of Frank Ave., on south side	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Shop and vehicles.
553	Housing - High Density (> 1 House/0.5 acres)	21 Development	Hammond's Century east of 285th Ave.	on north side of Church Rd., Co (unincorp)	Field-Observation	Clackamas sensitive area.	Within Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	Housing development; Boring sanitary system.
554	Random Dump Sites	abandoned vehicles	13250 SE 285th Ave., on east side of street	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
555	Parking Lots/Malls (> 50 Spaces)	Vanport Lumber	285th Ave. and Spring Rd.	Boring	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Historical lumber mill; heavy equipment; possible wood treating.
	Railroad Yards/Maintenance/Fueling Areas						Higher	Spills, leaks, or improper handling of fuels and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Transportation - Right-Of-Ways - Herbicide Use Areas						Higher	Over-application or improper handling of pesticides may impact drinking water supply.	
	Transportation - Railroads						Higher	Rail transport elevates the risk for leaks/spills of fuel & other haz. materials. Installation/maintenance of tracks may increase erosion & slope failure causing turbidity. Over-application/improper handling of pesticides may impact the water supply.	
	Stormwater Retention Basins						Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	
	Above Ground Storage Tanks - Excluding Water						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
	Wood Preserving/Treating						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	

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555	Machine Shops	Vanport Lumber	285th Ave. and Spring Rd.	Boring	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	Historical lumber mill; heavy equipment; possible wood treating.
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Chemical/Petroleum Processing/Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Lagoons/Liquid Wastes						Higher	Improper seepage or overflows of liquid wastes may impact the drinking water supply.	
	Wood/Pulp/Paper Processing and Mills						Higher	Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
556	Other	Boring Bark and Topsoil - possible project	Richey Rd., south of Hwy. 212	Boring	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Possible project - DCP 7. Sawdust, bark, and soil piles leaching into Deep Creek. Berm creek to divert/strain surface water runoff. Assigned map location requires verification.
557	Boarding Stables	rural residential	Boring, Fireman Way, Wally Road, School Avenue'Dee Street, and 257th Avenue	Boring	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Rural residential: some 5-acre, some < 1-acre; Cazadero Railroad Line Trail, horses; > 1-acre lots.
	Transportation - Railroads						Higher	Rail transport elevates the risk for leaks/spills of fuel & other haz. materials. Installation/maintenance of tracks may increase erosion & slope failure causing turbidity. Over-application/improper handling of pesticides may impact the water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
558	Boarding Stables	stable	11691 SE 272nd Ave.	Boring	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Horses.

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
559	Confined Animal Feeding Operations (CAFOs)	business/commercial buildings	located across from 11461 SE 272nd Ave. - on east side of road	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Possible historic poultry, or agricultural processing, facility on abandoned railroad line. Potential risk should be verified .
	Other Poultry Slaughter House						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Railroad Yards/Maintenance/Fueling Areas						Higher	Spills, leaks, or improper handling of fuels and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
560	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Maler Nursery	11330 SE 272nd Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Ornamental horticulture. Site is located beyond DWPA but it may impact the DWPA.

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561	Food Processing	abandoned poultry farm	located across from 11330 SE 272nd Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Site is located beyond DWPA but it may impact the DWPA.
	Other Poultry Slaughter House/Food Processing Facility						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
562	Other Wetland Area	creek crossing/wetland area	Haley Rd., east of 272nd Ave.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Site is located beyond DWPA but it may impact the DWPA. Wetland; blackberries. Assigned map location requires verification.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
563	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land - cattle	located on the north side of Haley Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Site is located beyond DWPA but it may impact the DWPA.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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564	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	green houses	located on north side of Haley Rd., across from 27293 SE Haley Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Site is located beyond DWPA but it may impact the DWPA.
565	Automobiles - Repair Shops	R.V. repair shop	27797 SE Haley Rd., on south side of Haley Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Site is located beyond DWPA but it may impact the DWPA.
566	Confined Animal Feeding Operations (CAFOs)	bird farm	northwest corner of Haley Rd. & 282nd Ave.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Possibly abandoned. Site is located beyond DWPA but it may impact the DWPA.
567	Grazing Animals (> 5 large animals or equivalent/acre)	stable	north side of Haley Rd., east of 282nd Ave.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Horses and goats. Site is located beyond DWPA but it may impact the DWPA.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	

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568	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	north and south side of Haley Rd., east of 282nd Ave.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Site is located beyond DWPA but it may impact the DWPA.
569	Parking Lots/Malls (> 50 Spaces)	Good Shepherd Church	located on the south side of Haley Rd., east of 282nd Ave.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Large parking lot at site. Site is located beyond DWPA but it may impact the DWPA.
570	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	commercial nursery	northwest corner of Haley Rd. & Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Ornamental horticulture. Site is located beyond DWPA but it may impact the DWPA.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
571	Farm Machinery Repair	business	southwest corner of Haley Rd. & Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	Site is located beyond DWPA but it may impact the DWPA. Truck storage; oil tank; large garbage containers; construction/farm equipment for sale.
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	UST - Status Unknown						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
572	Parking Lots/Malls (> 50 Spaces)	stable/equestrian center	Hwy. 26, approximately 1/4 - 1/2 mile south of Haley Rd. on west side of Hwy.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Commercial facility. Site is located beyond DWPA but it may impact the DWPA.
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
573	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	located on the east side of Hwy. 26, south of Haley Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5-acres. Site is located beyond DWPA but it may impact the DWPA.
	UST - Status Unknown						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
574	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on east side of Hwy. 26, south of Compton Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Grass/hay; trees.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
575	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	commercial nursery	located on the east side of Hwy. 26, north of Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Creek crossing; ornamental horticulture; trees.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	UST - Status Unknown						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
576	UST - Status Unknown	foodcrops - berries	southwest corner of Kelso Rd. & Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
577	Homesteads - Rural - Septic Systems (< 1/acre)	mobile home park	located on the east side of Hwy. 26, south of Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	< 1-acre.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
578	Fleet/Trucking/Bus Terminals	Oregon Forest Service Fleet Center	located on the west side of Hwy. 26, north of Jarl Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Oil/gas tanks; truck storage; gravel stockpiles; creek crossing.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	UST - Status Unknown						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
579	Parking Lots/Malls (> 50 Spaces)	Church of the Nazarene	located on the northwest corner of Hwy. 26 & Jarl Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Large parking lot at site.
580	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Sobella Farms Nursery	east and west sides of Hwy. 26, south of Jarl Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Ornamental horticulture and tree nursery. Bonneville Power Administration (BPA) power line crossing.
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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581	Transmission Lines - Right-of-Ways	U.S. Forest Service Building Visitor Center	located on the southwest side of Hwy. 26, northwest of 362nd Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	BPA power line crossing; large parking lot at site.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
582	Machine Shops	wood product manufacturing industrial site	located at the southeast corner of 362nd Dr. & Hwy. 26	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	Machine shop; large excavation site.
	Wood/Pulp/Paper Processing and Mills						Higher	Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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583	Fleet/Trucking/Bus Terminals	industrial site	located on the south side of Industrial Way, west of 362nd Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Large truck storage; truck service; truck/trailer manufacturing; construction company; logging staging site; machine service; large parking lot at site.
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
584	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	industrial site - nursery	located on the south side of Industrial Way, at west end of street	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Construction equipment storage; future cinema; large parking lot; container nursery. Potential future land use.
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
585	Metal Plating/Finishing/Fabrication	Quality Tank	16911 SE 362nd Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Tank manufacturing.
	UST - Status Unknown						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
586	Housing - High Density (> 1 House/0.5 acres)		residential area 362nd Dr., between Barnum Rd. & Skogan Rd.	located on the east side of	Field-Observation	Sandy sensitive area.	Within Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	High density residential development.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
587	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	362nd Dr., south of Skogan Rd.	Sandy	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	5-10 acre parcels.
588	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	sheep ranch	located on the southwest side of 362nd Dr. at Colorado Rd.	Sandy	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
589	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	green houses	located on the east side of 362nd Dr., south of Colorado Rd.	Sandy	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
590	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	15411 SE 362nd Dr.	Sandy	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Ornamental horticulture.

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591	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	tilled farmland	located on the west side of 362nd Dr.	Sandy	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Assigned map location requires verification.
592	Other Pond	pond	located on the east side of 362nd Dr., south of Gunderson Rd.	Sandy	Field-Observation	Within sensitive area.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Pond located near Tickle Creek.
593	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	located on the west side of 362nd Dr., south of Gunderson Rd.	Sandy	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	5-10 acres.
594	Transportation - Stream Crossing - Perennial	egg farm	located on the west side of 362nd Dr., north of the South Fork of Tickle Creek	Sandy	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Creek crossing. Potential risk should be verified.
	Confined Animal Feeding Operations (CAFOs)						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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595	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land - cattle	located at the northwest corner of 362nd Dr. & Hwy. 211	Sandy	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
596	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located at the northeast corner of 362nd Dr. & Hwy. 211	Sandy	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
597	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries	located on the south side of Hwy. 211, east of 362nd Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
598	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located at the southwest corner of 367th Ave. & Hwy. 211, east of power lines	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Nursery - iris/bulb farm.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
599	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residence/foodcrops - berries	located on the east side of 367th Ave., south of Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
600	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery/foodcrops - berries	located on the west side of 367th Ave.		Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Berries; Christmas trees; ornamental horticulture.

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601	Boarding Stables	rural residence/machine shop/stable	37765 SE Trubel Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Horses; junk yard area - cars; garbage.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
602	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the south side of Trubel Rd., east of Oldenburg Lane	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
603	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	north and south sides of Trubel Rd./Siebert Ln.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	2-5 acres.

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604	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	nursery	located on the south side of Trubel Rd, east of Siebert Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Farmland; grass/hay.
605	Random Dump Sites	rural residential/junk yard & automotive shop	19415 SE Bornstedt Rd., northwest corner of Trubel Rd. & Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	Automotive - body and paint shop; junk yard - automobiles; garbage trucks.
	Automobiles - Body Shops						Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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606	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	game processing facility/stables	located on the north side of Trubel Rd., east of Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Horses.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Other Meat / Game Processing Facility						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
607	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential - farmland	located on the south side of Trubel Rd., east of Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Tilled farmland.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
608	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	located at the southwest corner of Trubel Rd. & Bogle Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	2-5 acres.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
609	Automobiles - Repair Shops	dirt bike repair shop	west of 39522 SE Trubel Rd., east of Bogle Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
610	Boarding Stables	stables	located on north and south sides of Trubel Rd., east of Bogle Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Stables; horses; grazing - pasture land.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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(2) See Table 3 for database listings (if necessary).

TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
611	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	fertilizer spreader in creek pasture - possible project	located on the south side of Trubel Rd., west of Langersand Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Pasture land/cattle grazing - access to creek riparian. Possible project - DCP 9. Pasture drainage into creek/no trees. Abused property.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Other Stream						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
612	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located at the southeast corner of Langersand Rd. & Trubel Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Rural residential area > 1-acre lots.
613	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries	located on the south side of Trubel Rd., east of Langersand Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
614	Other Pond	rural residence	located on the north side of Trubel Rd., east of Langersand Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Junk trucks, construction equipment and trailers (10 old trailers). Garbage; nursery plants and trees; 2 large ponds.
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
615	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the south side of Trubel Rd., east of Langersand Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Sheep; murky pond.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
616	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	farmland - cultivated crops	located across from 41206 SE Trubel Rd., on north side of road	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
617	Junk/Scrap/Salvage Yards	rural residence - Christmas trees	located on the north side of Trubel Rd. at Firwood Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Ziemer residence. Junk yard at site - cars, trucks, equipment, garbage and tires; Christmas trees.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
618	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area - possible project	located on the south side of Trubel Rd., west of Firwood Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Possible project on Tickel Creek - DCP 10. Intermittent stream/dry.
	Other Stream						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
619	Schools	Firwood Elementary School	42900 Firwood School Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water.	Large parking lot.
								Vehicle maintenance wastes may contribute contaminants.	Site is located beyond DWPA but it may impact the DWPA.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Large parking lot. Site is located beyond DWPA but it may impact the DWPA.
620	Grazing Animals (> 5 large animals or equivalent/acre)	stable	across from Firwood Elementary School	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Horses; pasture land. Site is located beyond DWPA but it may impact the DWPA.
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
621	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	large shop buildings	located at the east end of Trubel Rd., east of Firwood Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Junk equipment; farm equipment; several large buildings. Site is located beyond DWPA but it may impact the DWPA.
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
622	Automobiles - Gas Stations	commercial site	located at the southeast corner of Hwy. 211 & Firwood Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	Site is located beyond DWPA but it may impact the DWPA. U-haul storage; automobile repair; gasoline station; wood stockpile.
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
623	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential - fruit orchard	located on the west side of Firwood Rd., south of Trubel Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Rural residential > 5 acre lots; llamas.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
624	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	across from 42801 SE Music Camp Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
625	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located on the south side of Music Camp Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Site is located beyond DWPA but it may impact the DWPA. Some < 1 acre; some > 5 acres.

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
626	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area - intermittent stream	located on the east side of Music Camp Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Site is located beyond DWPA but it may impact the DWPA.
	Other Stream						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
627	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the east side of Music Camp Rd.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Site is located beyond DWPA but appears to have no impact on the DWPA.
628	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land - Christmas trees	located on the south side of Music Camp Rd., after road curves east	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
629	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located on the south side of Music Camp Rd., west of 442nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Manicured yards.
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
630	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries	located on the north side of Music Camp Rd., east of 442nd Ave.	Clackamas Co (unincorp)	Field-Observation	Just outside DWPA	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Site is located beyond DWPA but it may impact the DWPA.
631	Junk/Scrap/Salvage Yards	rural residence	located on the west side of 442nd Ave., south of Music Camp Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Junk cars and equipment; garbage; tires.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
632	Junk/Scrap/Salvage Yards	rural residence	located on the west side of442nd Ave., south of Music Camp Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	

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633	Other Unmanaged Deciduous Forest Lands & Stream	unmanaged deciduous forest lands - creek	located on the west side of 442nd Ave., south of Music Camp Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
634	Boarding Stables	stable - barn	located on the east side of 442nd Ave., north of Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Large animal housing - horses/cattle.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
635	Boarding Stables	stable - arena	located on the east side of 442nd Ave., north of Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Large facility.
636	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located at the northwest corner of Pagh Rd. & 442nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Creek located on the west side of 442nd Ave.
	Other Stream						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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637	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located at the northwest and northeast corner of Pagh Rd. & 442nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
638	Other Stream	Blooming Hills Nursery	44174 SE Pagh Rd., on north side of road	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Deciduous trees; ornamental horticulture; Christmas trees; creek; skunk cabbage.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
639	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the north side of Pagh Rd., west of 44174 SE Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Ornamental horticulture.

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640	Junk/Scrap/Salvage Yards	junk yard	located on the south side of Pagh Rd., west of 44174 SE Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Junk cars.
641	Other Stream	rural residential area - possible project	located on the north side of Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	> 5 acre lots. Drainage along road; creek along road needs trees. Possible project - DCP 11.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
642	Grazing Animals (> 5 large animals or equivalent/acre)	pasture land, cattle - possible project	located on the south side of Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Creek crossing; cattle have access to creek; riparian needs trees. Possible project - DCP 11.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
643	Grazing Animals (> 5 large animals or equivalent/acre)	rural residential, pond - possible project	located on the south side of Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Pond; horse access to stream; riparian heavily eroded. Needs trees. Possible project - DCP 12.
	Other Stream						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Other Pond						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
644	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	green houses - nursery	located west of 42280 SE Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Nursery and junk cans.
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
645	Fire Station	Fire Department	24545 SE Firwood Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
646	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land - cattle	located on the east side of Firwood Rd., south of Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
647	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the west side of Firwood Rd., south of Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Green houses and container nursery.
648	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential - pasture land	located on the east and west sides of Forwood Rd., south of Pagh Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Rural residential > 5 acres; horses
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
649	Grazing Animals (> 5 large animals or equivalent/acre)	pasture land - horses	located on the west side of Firwood Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Horses; junk cars.
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
650	Junk/Scrap/Salvage Yards	nusery - junk yards	23737 SE Firwood Rd., on both sides of road	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Located near stream; junk cars; junk; deciduous trees. Potential risk should be verified .
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
651	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential - unmanaged deciduous forest lands	north on Firwood Rd. - forest is east of Bornstedt Rd. Dead End with Firwood Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Rural residential > 5 acre lots.
	Other Unmanaged Deciduous Forest Lands						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
652	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	farmland	located on the east side of Firwood Rd. at Algeier Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Tilled farmland.
653	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the west side of Firwood Rd., north of Corndog Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
654	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - rhubarb	located on the east side of Firwood Rd. at Corndog Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
655	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located on north side of Firwood Rd., east of Music Camp Rdl	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5 acre lots.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
656	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries	located on the south side of Firwood Rd., east of Music Camp Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Creek crossing.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Creek crossing.
657	Other Pond	pond	located south of Tickle Creek on Firwood Rd., around 21385 Firwood Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
658	Other Pond	large pond	located on Firwood Rd. at 427th Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
659	Grazing Animals (> 5 large animals or equivalent/acre)	llama farm	located on the east side of Firwood Rd., north of intersection with 427th Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
660	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land - cattle	located at southwest corner of Trubel Rd. & Bornstedt Rd.	Clackamas Co (unincorp)		Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
661	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located at southeast corner of Trubel Rd. & Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Several large barns; stream crossing.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
662	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on west side of Bornstedt Rd., south of Trubel Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Creek crossing - appears contaminated.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
663	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land - horses	located on the east side of Bornstedt Rd., south of Trubel Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
664	Farm Machinery Repair	junk yard	located on the south side of Boitano Rd., west of Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	Junk trailer, RV, farm equipment, cars.
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	

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665	Grazing Animals (> 5 large animals or equivalent/acre)	stable - Christmas trees	located on the north side of Boitano Rd., west of Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Horses; cattle; arena; Christmas trees.
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Horses; cattle; arena; Christmas trees.
666	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land - Christmas trees	located on the south side of Boitano Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
667	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the north side of Boitano Rd., west of Poe Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
668	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	37780 SE Boitano Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
669	Other Pond	pond	located on the south side of Boitano Rd., west of 37780 Boitano Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Lowland drainage; deciduous trees - good cover.
670	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	cattle ranch	located at west end of Boitano Rd., on south side	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Large farm buildings and equipment.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
671	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	Cottontail Drive & Cottontail Lane	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 10 acre lots.

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
672	Other Pond	agricultural land	located on the north side of Hwy. 211, west of 362nd Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Pasture land - cattle; Christmas trees; foodcrops - berries; pond.
673	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	precast cement business	35003 SE Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Christmas trees. Risk reduced to Lower because it is a small operation.
	Cement/Concrete Plants small operation						Lower	Spills, leaks, or improper handling of chemicals and high turbidity wastewaters during transportation, use, storage and disposal may impact the drinking water supply.	
674	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	agricultural land	located on the south side of Hwy. 211, west of Brinkley Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Hay/grass; Christmas trees; foodcrops - berries; flower farm.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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675	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Sandy Farms	located on the south side of Hwy. 211, west of Brinkley Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
676	Cemeteries - Pre-1945		Sandy Cemetery Hwy. 211, west of Brinkley Rd.	located on the south side of Co (unincorp)	Field-Observation	Clackamas sensitive area.	Within Lower	Embalming fluids (for example, arsenic) and decomposition by-products may impact drinking water supply.	
677	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located on the north side of Hwy. 211, west of Brinkley Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
678	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area - possible project	located on the south side of Hwy. 211 at Deep Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Creek crossing. Possible project - DCP 13.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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679	Campgrounds/RV Parks	Collin's Retreat Center	located on the north side of Hwy. 211 on Deep Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Leaks or spills of automotive fluids or improperly managed septic systems and wastewater disposal may impact drinking water supply. Heavy usage along edge of waterbody may contribute to erosion, causing turbidity.	Camping and conference facilities; dorms. Retreat site located on Deep Creek.
	Septic Systems - High Density (> 1 system/acre)						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	
680	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land - Christmas trees	located on the east side of Judd Rd., south of Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
681	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential area	located on the west side of Judd Rd., south of Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Manicured yards; Christmas trees.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	

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682	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	cattle ranch	located on the north side of Howlett Rd., east of Judd Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Drainage to Deep Creek headwaters.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
683	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located on the south side of Howlett Rd., between Judd Rd. & Smokey Ln.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
684	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries	located on the east side of Howlette Rd., south of Shadow Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
685	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	crops - hay	located on the west side of Howlette Rd., south of Shadow Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
686	Confined Animal Feeding Operations (CAFOs)	egg farm	located on the west side of Howlett Rd., south of Shadow Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
687	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential area	located on the east side of Howlett Rd. off Cat Track Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Residential area includes Lillian Lane, Kitty Kat Loop, and Lazy B Lane. Foodcrops - berries; grain/grass crops; Christmas trees; transitional timber lands; abandoned vehicles.
	Other Transitional Timber Lands						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
688	Above Ground Storage Tanks - Excluding Water	oil tank - equipment	located on the east side of Howlette Rd. - 23300 area	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	Dump trucks and farm equipment on-site. Potential risk should be verified .
689	Fire Station	Fire Station	located at the northwest corner of Judd Rd. & Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
690	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the north side of Judd Rd., west of Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
691	Grazing Animals (> 5 large animals or equivalent/acre)	rural residential area	located on the north and south sides of Judd Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	> 5 acre lots; pasture land; horses.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
692	Other Unmanaged Forest Lands	unmanaged deciduous forest lands	located on the north side of Judd Rd. & Idlewine Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
693	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential area	north and south sides of Judd Rd., west of Norse Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Christmas trees; pasture land - cattle; overgrown Christmas trees; transitional timber lands; 5-10 acre lots.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Other Transitional Timber Lands						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
694	Other Unmanaged Deciduous Forest Lands	unmanaged deciduous forest lands	located on the north side of Judd Rd., west side of power lines	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Unmanaged forest lands extend to Deep Creek; BPA power lines.
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
695	Mines/Gravel Pits	gravel pit	located on the south side of Judd Rd., on west side of power lines	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	Site located over cliff.
696	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	Gerber Court, located on the north side of Judd Rd. - west side of power lines	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	2-5 acre lots; 5-10 acre lots; BPA power lines.
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
697	Transmission Lines - Right-of-Ways	unmanaged forest lands - pond	located on the south side of Judd Rd., west of Gerber Court	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	BPA power lines.
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Other Unmanaged Forest Lands						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
698	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the north side of Judd Rd., west of Holst Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
699	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located on the south side of Judd Rd. at Amsigger Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5 acre lots.

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700	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	north side of Judd Rd. at Amsigger Rd. - east side of Amsigger, north of Judd	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5 acre lots.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	.
701	Other Stream	drainage	east side of Amsigger Rd., north of Yewwood Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Creek runs along Amsigger Rd.; good cover.
702	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries	east side of Amsigger Rd., north of Yewwood Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
703	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the west side of Amsigger Rd., north and south of Rebman Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Ornamental nursery; some container stock; > 100 acres.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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704	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	agricultural land - rural residential area	15535 SE Amsigger Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	> 100 acres; Christmas trees; cedar and conifer trees; foodcrops - berries; ornamental horticulture.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Other Transitional Timber Lands						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
705	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	268th Court, located off north side of Kelso Rd., west of Amsigger Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	2-5 acre lots; 5-10 acre lots.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
706	Parking Lots/Malls (> 50 Spaces)	Hood View Academy	26460 SE Kelso Rd., on north side of Kelso Rd.- west of 268th Ct.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	School; large parking lots.
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Schools						Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	
707	Parking Lots/Malls (> 50 Spaces)	Hoodview Church	26775 Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Large parking lots.
708	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	located west of 26775 SE Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5 acres.

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709	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential - ponds	located on the west side of 262nd Ave., south of Kelso Rd. - west of golf course	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5 acres; detention pond.
	Stormwater Retention Basins						Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
710	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residential with shop	located on the east side of 262nd Ave., south of Kelso Rd. - west of golf course	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	> 5 acres; large shop.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
711	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located on the north and south sides of Hoffmeister Rd., east of 222nd Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	< 5 acre lots.

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712	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	22850 SE Hoffmeister Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
713	Other Transitional Timber Lands	jurisdictional wetlands	located on the south side of Hoffmeister Rd., east of Hoffmeister Court	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Two > 5 acre rural residences.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
714	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the north and south sides of Hoffmeister Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
715	Other Wetlands	wetlands	located on the south side of Hoffmeister Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
716	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located on the north side of Hoffmeister Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	< 5 acre, and > 5 acre lots.

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717	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	natural gas facility and agricultural land	located on the south side of Hoffmeister Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Natural gas facility; pasture land; ornamental nursery.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
718	Utility Stations - Maintenance Transformer Storage	Northwest Pipeline	located along Hoffmeister Rd., between 222nd Dr. & 242nd Ave.	Clackamas Co (unincorp)	Interview	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	Fuel (oil) main extending from Seattle Washington to California.
719	Other Wetlands	pond - wetlands	located 300 feet west of 242nd Ave., on the south side of Hoffmeister Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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720	Machine Shops	pump repair business - possible project	located at the southeast corner of 242nd Ave. & Hoffmeister Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	Creek crossing. Possible project on Noyer Creek - DCP 14. Riparian area needs trees.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
721	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located on the north side of Hoffmeister Rd., east of 242nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	5-acre lots.
722	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees - pasture land	located on the south side of Hoffmeister Rd., east of 242nd Ave.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
723	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	drainage, pasture land, cattle - possible project	located west of 24935 SE Hoffmeister Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Cows in riparian area. Possible project - DCP 15.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
724	Kennels (> 20 Pens)	Misty Meadow Kennels	located across from 25529 SE Hoffmeister Rd. - on the south side of Hoffmeister	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Improper storage, management, and disposal of animal wastes and wastewater in areas of concentrated animals may impact drinking water.	
725	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located on the north and south sides of Hoffmeister Rd., west of 257th Ave.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
726	Transportation - Stream Crossing - Perennial	bridge/concrete barrier - possible project	located on Richey Rd., south of 212th Ave. Deep Creek crossing	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Possible fish passage impairment. Creek is muddy. Possible project - DCP 16.
727	Lagoons/Liquid Wastes	Boring Wastewater Treatment Plant	located on the west side of Richey Rd., 1/2 mile south of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper seepage or overflows of liquid wastes may impact the drinking water supply.	Lagoons at site.
728	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located on the west side of Richey Rd., from Church Rd. to Kelso Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	2-5 acre parcels.
729	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	agricultural land	located on the west side of Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Sprayed cropland and commercial green houses.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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730	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Islie Nursery	located on the east side of Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Ornamental horticulture; container ornamentals; maple trees.
731	Other Stream	CRBC Tree Project	located on the east side of Tickle Creek Rd., on the north side of Deep Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
732	Other Unmanaged Forest Lands	unmanaged forest lands	located on the west side of Tickle Creek Rd., north of Knox Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
733	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the east side of Tickle Creek Rd., south of Deep Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
734	Utility Stations - Maintenance Transformer Storage	pump house	29421 SE Knox Rd., on the south side of Knox Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
735	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located on the south side of Know Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5 acre lots.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
736	Other Unmanaged Deciduous Forest Land	unmanaged deciduous forest lands - rural residential area	located on the north and south sides of Knox Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	> 5 acre lots. Unmanaged forest land is located on the north side of Knox Rd., and the rural residential area is located on the south side.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
737	Other Pond	ponds	located on the south side of Knox Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Two large ponds at site. Creek is located below ponds.
738	Boarding Stables	stable	located on the north side of Knox Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
739	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries	located on the north side of Knox Rd. at creek crossing	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Creek crossing.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
740	Grazing Animals (> 5 large animals or equivalent/acre)	pasture land - sheep - pond	located on the south side of Knox Rd., east of creek crossing	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Other Pond						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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741	Other Unmanaged Deciduous Forest Lands	unmanaged deciduous forest lands	located on the north side of Knox Rd. and at the end of Knox Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Junk cars and garbage at the end of Knox Rd.
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
742	Other Unmanaged Deciduous Forest Lands	unmanaged deciduous forest lands	located on Tickle Creek Rd., south of Knox Rd. to Hillyard Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
743	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries	29600 SE Hillyard Dr., on the north side of street	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
744	Boarding Stables	stable	located on the south side of Hillyard Dr., to end of road	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Horses.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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745	Upstream Reservoirs/Dams	possible fish passage barrier - possible project	located north of 17650 SE Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	During major storm events, reservoirs may contribute to prolonged turbidity for downstream intakes for drinking water. Construction, fluctuating water levels, and heavy waterside use can increase erosion and turbidity in reservoir/drinking water source.	Stream is not shown on map. Stream crossing; driveway culverts; possible pond. Possible project - DCP 17.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
746	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located south of 17650 Tickle Creek Rd., on the east side of street	Co (unincorp)	Clackamas Observation	Field-sensitive areas.	Outside	Lower If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5 acres.
747	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries	located on the south side of Holst Rd., west of Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
748	Boarding Stables	stable	located on the north side of Holst Rd., west of Tickle Creek at end of road	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Horses.

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749	Boarding Stables	Moren Stable & Residence	17851 Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Farm machinery; horses.
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
750	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries & filbert orchard	located on the east side of Decker Rd., north of Tickle Creek	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
751	Other Stream	drainage/headwaters - possible project	located on the west side of Decker Rd., north of Tickle Creek	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Riparian area needs trees. Possible project - DCP18.
752	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Rumsey Cattle Ranch	located on the south side of Tickle Creek Rd., east of Decker Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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753	Boarding Stables	stable - pasture land	located on the north side of Tickle Creek Rd., east of Decker Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Stable and pasture land across road.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
754	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the west side of Fosberg Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
755	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land - grass	located on the east side of Tickle Creek Rd., south of Fosberg Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
756	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the west side of Tickle Creek Rd., south of Fosberg Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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757	Farm Machinery Repair	farm machinery repair	18191 SE Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
758	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	hay fields - nursery	located south of 18191 SE Tickle Creek Rd., on north side of power lines	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
759	Other Unmanaged Forest Lands	rural residential area - unmanaged forest lands	located on the south side of Tickle Creek Rd., south of the power lines	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	> 10 acre lots.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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760	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the north side of Tickle Creek Rd., south of power lines	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Pasture land and green houses.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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761	Transportation - Stream Crossing - Perennial	farm	located on the east side of Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	> 100 acres; irrigated; warehouse; creek crossing; pasture land.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
762	Other Unmanaged Forest Lands	unmanaged forest lands	located on the west side of Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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763	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	abandoned farm	located on the south side of Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Abandoned machinery, trucks, logging equipment and cars.
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
764	Other Unmanaged Forest Lands	unmanaged forest lands	located on the south side of Tickle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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765	Automobiles - Gas Stations	Big Valley Mobile Home Park - possible project	located at the end of Leewood Lane	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	> 200-unit mobile home park. Drainage along roads appears contaminated. No visible location for adequate drainfield. Gas station; creek crossing; ponds; perched culvert. Possible project - DCP 19.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Other Pond						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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765	Housing - High Density (> 1 House/0.5 acres)	Home Park - possible project	Big Valley Mobile Leewood Lane	located at the end of Co (unincorp)	Observation	Clackamas sensitive area.	Field- Within Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	> 200-unit mobile home park. Drainage along roads appears contaminated. No visible location for adequate drainfield. Gas station; creek crossing; ponds; perched culvert. Possible project - DCP 19.
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
766	Schools	Pioneer School	36001 SE Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	
767	Automobiles - Repair Shops	rural residential area	located off Gunderson Rd. & Volmer Way	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Race cars at 362nd Ave. and Gunderson Rd.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
768	Homesteads - Rural - Septic Systems (< 1/acre)	pasture land - drainage - possible project	located north of Gunderson Rd. to Volmer Way	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Possible project - DCP 20. Drainage area needs trees. Rural residential area > 5-10 acre lots.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
769	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the south side of Gunderson Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
770	Machine Shops	machine shop - chrome wheel storage	located on the south side of Gunderson Rd., east of creek crossing	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	C17: possible chrome plating at site. Creek crossing.
	Metal Plating/Finishing/Fabrication						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
771	Fleet/Trucking/Bus Terminals	Haul Trucking Business	located on the north side of Gunderson Rd., west of creek crossing	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Trucks on-site.
772	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - berries and unmanaged forest lands	toward west end of Gunderson Rd., on south side of street	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Other Unmanaged Forest Lands						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
773	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residence with shop	located at west end of Gunderson Rd., on south side of street	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Tall 4-door shop. Creek crossing
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
774	Farm Machinery Repair	Vollmer Excavating	located on the east side of Volmer Way, at end of street - off Gunderson Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	Construction equipment storage and repair; 4 large shop buildings; trucks; bare ground.
	Homesteads - Rural - Machine Shops/Equipment Maintenance						Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
775	Transportation - Stream Crossing - Perennial	creek crossing	located at 362nd Dr., south of Colorado Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Upstream - low flow.
776	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	sheep ranch - pasture land	located at the northwest corner of 362nd Dr. & Colorado Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
777	Grazing Animals (> 5 large animals or equivalent/acre)	horse ranch	located on the south side of Colorado Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
778	Other Wetlands	wetlands - possible project	located on the north side of Colorado Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Trees needed. Possible project - DCP 20.
779	Transportation - Stream Crossing - Perennial Riparian	stream crossing - possible erosion control project	eastern most stream crossing on Colorado Rd., west of 362nd Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Possible project - DCP 21. area in need of trees and ground cover; muddy.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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780	Other Gun Shop	rural residential area	located on the north and south sides of Colorado Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	> 5 acre lots; llamas; pond - instream; gun shop.
	Other Pond - Instream						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Upstream Reservoirs/Dams						Moderate	During major storm events, reservoirs may contribute to prolonged turbidity for downstream intakes for drinking water. Construction, fluctuating water levels, and heavy waterside use can increase erosion and turbidity in reservoir/drinking water source.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
781	Transportation - Stream Crossing - Perennial	creek crossing	located on the north side of Colorado Rd., west of 362nd Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
782	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential - nursery - stable	located on the north side of Colorado Rd., west of 362nd Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Horses; tree nursery.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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783	Lawn Care - Highly Maintained Areas	rural residential area - possible culvert project	Moonbeam Drive	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	Possible project - DCP 22. Erosion conditions present; 2-ft. perched culverts; pond; creek crossing; sheep. BPA power lines and manicured yards.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Other Stream						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
783	Transmission Lines - Right-of-Ways	rural residential area - possible culvert project	Moonbeam Drive	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	Possible project - DCP 22. Erosion conditions present; 2-ft. perched culverts; pond; creek crossing; sheep. BPA power lines and manicured yards.
784	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential - unmanaged forest lands	Twilight Lane	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Other Unmanaged Forest Lands						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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785	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential	located on the north side of Colorado Rd. around 329th Place	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	> 5 acres; cattle; horses; blueberries.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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786	Farm Machinery Repair	logging site	located on the south side of Colorado Rd., west of 329th Place	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	Equipment storage on-site.
	Managed Forest Land - Clearcut Harvest (< 35 yrs.)						Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
	Managed Forest Land - Partial Harvest (< 10 yrs.)						Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes (ex: nitrates) in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
787	Other Unmanaged Deciduous Forest Lands	passable culvert - unmanaged deciduous forest lands	located on gravel road off northwest end of Colorado Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Creek crossing.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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788	Other Stream	perched culvert - possible culvert project	located on gravel road off northeast end of Colorado Rd.	Clackamas	Field-Co (unincorp)	Within Observation	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory. sensitive area.	Impassable culvert down stream from #477. Possible culvert project, pictures - DCP 23. Creek crossing. Deciduous forest land. Assigned map location requires verification.
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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789	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	agricultural land - possible creek restoration project	located on the north side of Hwy. 211, between 362nd Dr. & Arletha Court	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Clearcut creek erosion. Possible creek restoration project - DCP 24. Intermittent stream crossing; hay/grass fields; raspberries; tree nursery; horses; cattle.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Managed Forest Land - Clearcut Harvest (< 35 yrs.)						Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
	Other Stream						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
789	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	agricultural land - possible creek restoration project	located on the north side of Hwy. 211, between 362nd Dr. & Arletha Court	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Clearcut creek erosion. Possible creek restoration project - DCP 24. Intermittent stream crossing; hay/grass fields; raspberries; tree nursery; horses; cattle.
790	Boarding Stables	pasture land - transitional timber lands	Arletha Court, off south side of Hwy. 211 - west of Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Stable; horses; cattle; transitional timber.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Other Transitional Timber Lands						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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791	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land, foodcrops, gun club - possible project	located north of Hwy. 211, between Arletha Ct. & Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Creek crossing. Possible project - DCP 24. Riparian area needs trees.
	Other Gun Club						Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
792	Large Capacity Septic Systems (serves > 20 people) - Class V UICs	Wonderland Mobile Home Park	located on the north side of Hwy. 211, east of Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	Old mobile home park.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
793	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential area, mini ranches - possible culvert project	north and south sides of Bornstedt Rd., Hwy. 211 to Trubel Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Possible culvert project - DCP 25. Bare land; no silt fence; two creek crossings; pond; horses; cattle; urban housing; rural residential area.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	
	Other Pond						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
794	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nurseries - pasture land	east and south sides of Bornstedt Rd., east of Boitano Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Pasture land; horses; maple tree nursery.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
795	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	abandoned winery	located at northeast end of Winery Rd., off Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Two large agricultural buildings; pasture land; horses; tilled farmland; ornamental nursery.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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796	Grazing Animals (> 5 large animals or equivalent/acre)	stable - clearcut area - pasture land	located at the southeast corner of Winery Rd. & Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Clearcut area; horses; muddy.
	Managed Forest Land - Clearcut Harvest (< 35 yrs.)						Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. . Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water. .	
797	Airport - Maintenance/Fueling Area	small airport	located at south end of Moxie Ln., west of Winery Rd. & Bumpy Ln.	Clackamas Co (unincorp)	Interview	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, de-icers, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Private airstrip.
798	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	agricultural land - rural residential area	located on the south side of Rude Rd., south of and off Bornstedt Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	> 5 acre lots; pasture land.
	Other Transitional Timber Lands						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	> 5 acre lots; pasture land.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping . household hazardous wastes can result in groundwater contamination.	

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799	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential area	Bornstedt Rd., west of Firwood Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	> 5 acres; creek crossing; tires in creek; stock nursery; pasture land.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
800	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	machine shop/foodcrops - blueberries	located at southwest corner of Bornstedt Rd. & Firwood Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Blueberries on east and west side.
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
801	Upstream Reservoirs/Dams	pond - possible project	located on Firwood Rd., south of Bornstedt Rd. creek crossing	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	During major storm events, reservoirs may contribute to prolonged turbidity for downstream intakes for drinking water. Construction, fluctuating water levels, and heavy waterside use can increase erosion and turbidity in reservoir/drinking water source.	Possible project. Instream pond completely blocks stream. Junk yard areas and nursery present in vicinity. Potential risk should be verified.
	Other Pond						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Transportation - Stream Crossing - Perennial						Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
802	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located off Firwood Rd., south of Bornstedt Rd., on Dover Court	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5 acre lots.
803	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	foodcrops - raspberries	located on the east side of Firwood Rd., north of Dover Court	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
804	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential	located on the east and west side of Firwood Rd., between Bornstedt & Trubel Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5 acres.

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805	Other Unmanaged Deciduous Forest Lands	pond on creek-no passage-possible project - rural residential area	located on the west side of Langersand Rd., north of Trubel Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Possible project - DCP 26. 36-inch perched culvert. > 5 acre lots; BPA power line crossing; pasture land.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
	Upstream Reservoirs/Dams						Moderate	During major storm events, reservoirs may contribute to prolonged turbidity for downstream intakes for drinking water. Construction, fluctuating water levels, and heavy waterside use can increase erosion and turbidity in reservoir/drinking water source.	
	Other Pond						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
806	Automobiles - Gas Stations	urban and high density residential area	area along the east side of Langersand Rd., south of Hwy 26	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	Large church parking lot; parking lots; feed store; gas station; high density residential area.
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
	Chemical/Petroleum Processing/Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
807	Parking Lots/Malls (> 50 Spaces)	Meinig Memorial Park - possible parking lot/creek project	located east of Meinig Ave. & Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Possible parking lot/creek project - DCP 27. Open creek in parking lot.
	Parks						Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	

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808	Grazing Animals (> 5 large animals or equivalent/acre)	rural residential - pasture land - horses - pond	located at the end of Smokey Lane, on the north side	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	> 5 acres; headwaters.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Other Pond						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
809	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area - foodcrops - pasture land	located on Shadow Rd., north of Howlett Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Food crops - berries.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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810	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	Land Rd. off Howlett Rd., and Shadow View Ln. off Land Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Automobile repair; trucking operation; logging operation; foodcrops - berries.
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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811	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	pasture land, cattle - possible project	located on Woodle Rd., off Howlett Rd., project site on north side of road	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Possible project, picture - DCP 27. Creek bulldozed to water's edge. Fences to water's edge; cattle; filbert orchard.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Other Stream						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
812	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	filbert orchard	located on the west side of Crane Rd., north of Woodle Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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813	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located on the east side of Crane Rd., north of Woodle Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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814	Transportation - Stream Crossing - Perennial	rural residential area - possible culvert project	Gold Rd., off Crane Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Road building, maintenance & use may increase erosion & slope failure causing turbidity. Vehicle use increases the risk of leaks or spills of fuel & other chemicals. Over-application/improper handling of pesticides in right-of-way may also impact water.	Possible culvert project - DCP 28. Creek crossing - no passage; clearcut area; horses. Large pond on the west side of road. > 5 acre lots.
	Other Pond						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Managed Forest Land - Clearcut Harvest (< 35 yrs.)						Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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815	Grazing Animals (> 5 large animals or equivalent/acre)	rural residential area	Bronze Rd., off Gold Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Horses and cattle.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
816	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential area - pasture land	located on the north side of Wildcat Mountain Drive	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	> 5 acres; Christmas trees; pond - on north side of road.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
817	Other Unmanaged Deciduous Forest Lands	unmanaged deciduous forest lands	located on the south side of Wildcat Mountain Drive	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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818	Other Wetlands	rural residential - possible project	located on the north side of Wildcat Mountain Dr., east of Brevi Lane	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Possible project - DCP 29. Headwaters; wetlands - no cover; abandoned cars.
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
819	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential area	located on Brevi Ln., north of Wildcat Mountain Drive	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Horses; pasture land; Christmas trees.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
820	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land - horses	located on Dale Ln., north of Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
821	Other Shooting Range	shooting range	located on the north side of Hwy. 224, across Hwy. from Paul Bunyan Ln.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
822	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area - agricultural land - miscellaneous businesses	Hwy. 224, between BPA power lines & Amsigger Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	> 5 acre lots; container nursery; Christmas trees; pasture land; horses; metal fabrication; engine repair; logging and equipment repair.
	Transmission Lines - Right-of-Ways						Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	.
	Metal Plating/Finishing/Fabrication						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
822	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential area - agricultural land - miscellaneous businesses	Hwy. 224, between BPA power lines & Amsigger Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	> 5 acre lots; container nursery; Christmas trees; pasture land; horses; metal fabrication; engine repair; logging and equipment repair.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Transportation - Freeways/State Highways/Other Heavy Use Roads						Higher	Vehicle use increases the risk for leaks or spills of fuel & other haz. materials. Road building, maintenance & use can increase erosion/slope failure causing turbidity. Over-application or improper handling of pesticides/fertilizers may impact water.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
823	Metal Plating/Finishing/Fabrication	Eagle Iron Works	located on the north side of Hwy. 224, southeast of Bartlemay Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
824	Grazing Animals (> 5 large animals or equivalent/acre)	pasture land - cattle in stream - possible project	east and west side of Amsigger Rd., north of Little Creek	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Possible project - DCP 30. Cattle in stream.
	Other Stream						Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
825	Other Wetlands	rural residential area	north side of Holst Rd., off Judd Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Drainfields on/in riparian area; wetlands; pasture land.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
826	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area - businesses	Yewwood Drive, on west side of Amsigger Rd.	Co (unincorp)	Clackamas Observation	Field-sensitive area.	Within Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	Bus repair/storage adjacent to stream; logging operation/staging area; horses; stable.
	Boarding Stables						Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
	Managed Forest Land - Partial Harvest (< 10 yrs.)						Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes (ex: nitrates) in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
	Other Stream						Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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827	Other Wetlands	Trestle Glen Camp	located at the end of Yewwood Dr., north of Hwy. 224 & Bakers Ferry Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Two entrances into park. Large pond; dormitory housing; wetlands.
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	.
	Campgrounds/RV Parks						Moderate	Leaks or spills of automotive fluids or improperly managed septic systems and wastewater disposal may impact drinking water supply. Heavy usage along edge of waterbody may contribute to erosion, causing turbidity.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	.
828	Farm Machinery Repair	Elte Construction Equipment	located at the northwest corner of Amsigger Rd. & Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	Equipment repair, storage and sales.
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
829	Parking Lots/Malls (> 50 Spaces)	Barton School	located on the south side of Hwy. 224, east of Bakers Ferry Rd.	Barton	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Large gravel parking lot.
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Schools						Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	
830	Parking Lots/Malls (> 50 Spaces)	gasoline station	located on the south side of Hwy. 224, east of Bakers Ferry Rd.	Barton	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Large gravel parking lot.
	Automobiles - Gas Stations						Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	

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831	Other Ceramics Manufacturing	ceramics business - construction equipment	located on the west side of Bakers Ferry Rd., south of Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Possible lead glazing, and other chemicals, used in the manufacturing of ceramics. Construction equipment storage, repair, and maintenance.
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
832	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	pasture land	located on the north side of Hwy. 224, west of Bakers Ferry Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
833	Mines/Gravel Pits	gravel pit	located on the south side of Hwy. 224, west of Bakers Ferry Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of chemicals and wastes generated in mining operations or from heavy equipment may impact the drinking water supply.	Area located east of Deep Creek, north of the Clackamas River.

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
834	Farm Machinery Repair	tractor repair - pond	located on north side of Royer Rd. off 232nd Dr., north of Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	Pond is located north of Royer Rd. on the east side of 232nd Drive.
	Other Pond						Lower	The impacts of this potential contaminant source will be addressed during the enhanced inventory. .	
835	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential area	232nd Dr., south of Deep Creek School	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	> 5 acre lots; pasture land; foodcrops - berries.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	

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836	Parking Lots/Malls (> 50 Spaces)	Deep Creek School	located on the east side of 232nd Dr., south of Ondo Rivera Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Schools						Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	
837	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	nursery	located on the east side of 232nd Dr., south of Blue Ridge Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Ornamental horticulture; Christmas trees.
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
838	Homesteads - Rural - Machine Shops/Equipment Maintenance	rural residential with shop	Blue Ridge Drive, off east side of 232nd Dr., south of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of solvents, fuels, and other materials or chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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839	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the east side of 232nd Dr., north of Blue Ridge Dr.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Christmas trees; foodcrops - berries; croplands.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	-
840	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential area	Bartel Rd., south of Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	> 2 acre lots; nursery stock; tree nursery.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
841	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	Holly View Lane, off north side of Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	1-acre lots.

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842	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	rural residential area	Meier Lane, off 272nd Ave.	Boring	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	> 1 acre lots; old abandoned dairy farm.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
843	Fleet/Trucking/Bus Terminals	trucking storage	located at the northeast corner of Dee St. & Hwy. 212	Boring	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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844	Composting Facilities	commercial development and light truck parts	located on the west side of 282nd Ave., north of Hwy. 212 and Boring	Boring	Field-Observation	Outside sensitive areas.	Higher	Storage and improper handling of organic material, animal waste, and wastewater may impact drinking water.	Automobile repair; muffler shop; sign shop; junk yard - automobiles and motorcycles; barkdust/compost/firewood piles;
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
	Machine Shops						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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845	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	rural residential area - nursery	located on 282nd Ave., north of Boring, south of Haley Rd.	Boring	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	> 5 acre lots; tree nursery.
	Homesteads - Rural - Septic Systems (< 1/acre)						Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
846	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	tree farm	located on the northwest side of Dowty Rd., west of Hwy. 211	Eagle Creek	Field-Observation	sensitive area.	Within Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
847	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the south side of Dowty Rd., west of Hwy. 211	Eagle Creek	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
848	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Soloran Tree Farm	located on Dowty Rd., northeast of Blay Rd., west of Hwy. 211	Eagle Creek	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Slough and ponds in nearby vicinity.
849	River Recreation - Heavy Use (inc. campgrounds)	Bonnie Lure State Park	Logan area, off Eaden Rd., east of Springwater Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Inadequate disposal of human wastes may contribute bacteria and nutrients to the drinking water supply. Heavy use may contribute to streambank erosion causing turbidity. Fuel spills and emissions may also contribute to contamination.	
	Parks						Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	
850	Grazing Animals (> 5 large animals or equivalent/acre)	livestock	located on the east side of Dowty Rd., north of Folsom Rd.	Eagle Creek	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Nice wetland area, restoration options.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
851	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Weedin Nursery	located on the south side of Folsom Rd., at Dowty & Folsom Rd. intersection	Eagle Creek	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
852	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	tree farm	located on the south side of Folsom Rd., west of Hereford Ln.	Eagle Creek	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
853	Homesteads - Rural - Septic Systems (< 1/acre)	rural residence - large estate	located on the north side of Currin Rd., east of Hwy. 211	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
854	Grazing Animals (> 5 large animals or equivalent/acre)	livestock	located on the south side of Currin Rd., east of Hwy. 224, west of Wallace Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
855	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	managed forest lands - clearcut area	located on the north side of Currin Rd., west of Five Oaks Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
856	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees - livestock	located on the south side of Currin Rd., between Wallace & Five Oaks Rd.	Clackamas	Field-Co (unincorp)	Outside Observation	Lower	Over-application or improper handling of sensitive areas. pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
857	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Angel Acres Tree Farm	27770 Currin Rd., on the south side of Currin Rd., north of Estacada Airport	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
858	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	managed forest lands - clearcut area	located at the northeast corner, at the intersection of Copeland & Currin Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
859	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	tree farm	located at the northwest corner of Coupland & Currin Rd. intersection	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
860	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the south side of Coupland Rd., just east of Currin Rd. intersection	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
861	Grazing Animals (> 5 large animals or equivalent/acre)	junk yard - livestock	located on the south side of Coupland Rd., south of Tracy Rd. intersection	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Incised stream, cattle in stream, fencing project.
	Junk/Scrap/Salvage Yards						Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
862	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery, foodcrops - berries	located at the intersection of Tracy & Coupland Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
863	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	Coupland & Divers Rd., on north & south side Coupland, on west side of Divers	Clackamas	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
864	Parking Lots/Malls (> 50 Spaces)	grange	33460 Divers Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Public facility, heavy septic system use.
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
865	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas	nursery	located on the west side of Divers Rd., just north of Kemp Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
866	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located on the west side of Divers Rd., across from Porter Rd. intersection	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
867	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area	Lacy Ln., located on the north side of Squaw Mountain Rd., east of Divers Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Fixed culvert. Culvert replaced with pipe arch culvert.
868	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	managed forest lands - clearcut area	Porter Rd., area to southeast including all hills	Clackamas	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Property owned by Longview Fiber Company.

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
869	Other Culvert without Fish Barrier	culverts - double	located on the west side of Porter Rd., north of Squaw Mountain Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	Double culvert without fish barrier. Needs to be upgraded. Possible fish passage problem at site.
870	Automobiles - Repair Shops	Roarks Handyman	located on the east side of Porter Rd., near stream crossing	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Business appears to be a miscellaneous repair shop. Investigation of creek suggested. Potential risk should be verified . Unknown operations - needs verification.
	Furniture/Lumber/Parts Stores						Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	
871	Parking Lots/Malls (> 50 Spaces)	Mennonite Church	located on the south side of Porter Rd., in the town of Porter	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	

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872	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Christmas trees	located on Porter Rd., at the west end of town, west of Randall Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
873	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Christmas trees	Bouman Rd./Buzz Rd. - east of Doyle Rd., off Porter Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
874	Grazing Animals (> 5 large animals or equivalent/acre)	Massau Stock Farms	located on the south side of Porter Rd., west of Doyle Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
875	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	tree farms	Peaceful Lane - located off east side of Coupland Rd., north of Porter Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
876	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	tree farms	located on the west side of Coupland Rd., north of Porter Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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877	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	tree farms	located on the west side of Coupland Rd., north of Peaceful Lane	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
878	Managed Forest Land - Partial Harvest (< 10 yrs.)	managed forest lands	located on the east side of Coupland Rd., north of Peaceful Lane	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes (ex: nitrates) in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
879	Junk/Scrap/Salvage Yards	junk yard	located on the west side of Tracy Rd., south of Linde Lane	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Junk yard, trucks, abandoned automobiles, logging and various equipment by stream side.
	Random Dump Sites						Higher	Illegal trash and debris containing chemicals and hazardous materials may cause contamination to groundwater or surface water supply.	
880	Automobiles - Repair Shops	Cascade Motor Repair	located on the south side of George Rd., west of Rainbow Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	

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881	Parking Lots/Malls (> 50 Spaces)	George Community Church	located on the north side of George Rd., west of Belfils Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
882	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located on the south side of George Rd., west of Rainbow Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
883	Other Fish Hatchery	Eagle Creek Fish Hatchery	located on the west side of Rainbow Rd., off the south side of George Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	The impacts of this potential contaminant source will be addressed during the enhanced inventory.	

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884	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	commercial forest lands	George Rd. to Bissell Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
	Managed Forest Land - Partial Harvest (< 10 yrs.)						Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes (ex: nitrates) in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	
885	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	agricultural area - farms	Clausen Rd., north of George Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
886	Fire Station	Fire Station	located at the northeast corner of Clausen & Gruberrd Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	

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887	Parks	Eagle Fern Park	located off west side of Eagle Fern Rd., south of Wildcat Mountain Dr.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff. Heavy use along edge of waterbody may contribute to erosion, causing turbidity.	
888	Parking Lots/Malls (> 50 Spaces)	Dover Community Church	located on the east side of Kitzmiller & Kleinsmith Rd. intersection	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
889	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the north side of Kleinsmith Rd., north of Kitzmiller Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	

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890	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area	Wildcat Mountain Road	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	Steep ridge to creek.
891	Parking Lots/Malls (> 50 Spaces)	commercial buildings	located on west side of Eagle Creek Rd., between Creekside Ln. & Riverside Way		Eagle Creek Observation	Field-sensitive area.	Within	Higher Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	PCS is located in floodplain. Unknown operations - needs verification.
892	Wood/Pulp/Paper Processing and Mills	abandoned plywood mill	located on west side of Eagle Creek Rd., between Creekside Ln. & Riverside Way		Eagle Creek Observation	Field-sensitive area.	Within	Higher Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
893	Parking Lots/Malls (> 50 Spaces)	Eagle Creek Four Square Church	located on the east side of Eagle Creek Rd., south of Wildcat Mountain Dr.	Eagle Creek	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
894	Housing - High Density (> 1 House/0.5 acres)	Estates	Eagle Crest Mobile located on the east side of the road, north of Currin Rd.	25800 Eagle Creek Rd.,	Observation	Eagle Creek sensitive areas.	Field- Outside Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	80 homes present at site.
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
895	Food Processing	Eagle Creek Inn Restaurant	located on the east side of Eagle Creek Rd., north of Currin Rd.	Eagle Creek	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
896	Automobiles - Gas Stations	old gasoline station	located on the east side of Eagle Creek Rd., north of Currin Rd.	Eagle Creek	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	Previous site of an old gasoline station.
	UST - Status Unknown						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
897	Confined Animal Feeding Operations (CAFOs)	Hartman Equine Adventures	located on the east side of Eagle Creek Rd., north of Heiple Rd.	Boring	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
898	Junk/Scrap/Salvage Yards	Currin Creek Excavation	located on the east side of Eagle Creek Rd., just north of Currin Ck. & Duus Rd.	Clackamas	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
899	Medical/Vet Offices	Horse Hospital	28255 Eagle Creek Rd., located on the west side of the road, south of Ely Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Spills, leaks, or improper handling of x-ray, biological, chemical, and radioactive wastes and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
900	Junk/Scrap/Salvage Yards	junk yard	located on the east side of Eagle Creek Rd., south of Ely Rd., north of Duus Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	
901	Housing - High Density (> 1 House/0.5 acres)		mobile homes Eagle Creek Rd., south of Ely Rd., north of Duus Rd.	located on the east side of Co (unincorp)	Field-Observation	Clackamas sensitive areas.	Outside Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
902	Other Rural Market	Sunrise Market	located on the east side of Eagle Creek Rd., south of Ely Rd., north of Duus Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Potential risk should be verified.
903	Furniture/Lumber/Parts Stores	tack shop	located on the west side of Eagle Creek Rd., near Duus Rd. intersection	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
904	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located on the south side, at the west end, of Duus Rd., off Eagle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
905	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	farm	located on the south side, at the west end, of Duus Rd., at Currin Ck. Crossing	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	Drainage ditch with culvert, wetlands.
	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)						Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
906	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located on the north side of Duus Rd., east of Currin Creek crossing	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	Overgrown trees.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
907	Boarding Stables	McClain Farm - livestock	located on the south side of Duus Rd., at intersection of Barger Blvd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Improper storage and management of animal wastes and wastewater in areas of concentrated livestock may impact drinking water.	Great wetland restoration potential at site.
	Grazing Animals (> 5 large animals or equivalent/acre)						Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	Great wetland restoration potential at site.
908	Airport - Maintenance/Fueling Area	Valley View (Estacada) Airport	located on the south side of Duus Rd., between Eagle Creek & Currin Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of fuels, de-icers, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
909	Homesteads - Rural - Septic Systems (< 1/acre)	rural residential area	located on the north side of Duus Rd., west of Shoregorick Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Lower	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Use of drain cleaners and dumping household hazardous wastes can result in groundwater contamination.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
910	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	located on the south side of Duus Rd., west of Shoregorick Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
911	Housing - High Density (> 1 House/0.5 acres)	Mobile Court	Mountain View Duus Rd., across from Shoregorick Rd.	located on the north side of Co (unincorp)	Field-Observation	Clackamas sensitive area.	Within Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
912	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	nursery	located on the west side of Shoregorick Rd., at Duus Rd. intersection	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas						Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
913	Parking Lots/Malls (> 50 Spaces)	Estacada Christian Church	located on the west side of Eagle Creek Rd., south of Duun Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
914	Parking Lots/Malls (> 50 Spaces)	Clackamas Valley Baptist Church	located on the west side of Eagle Creek Rd., south of Duus Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
915	Parking Lots/Malls (> 50 Spaces)	Peace Lutheran Church	located on the east side of Eagle Creek Rd., south of Duus Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
916	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)	Christmas trees	located on the east side of Eagle Creek Rd., north of River Mill & Hinman Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	
917	Automobiles - Body Shops	Estacada Body & Paint	located on the west side of Eagle Creek Rd., north of River Mill Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	
918	Automobiles - Repair Shops	Clackamas Towing	located on the west side of Eagle Creek Rd., north of River Mill Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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919	Large Capacity Septic Systems (serves > 20 people) - Class V UICs	Jehovah's Witness Kingdom Hall	30424 Eagle Creek Rd., near River Mill Rd. intersection, on the east side of Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
920	Parking Lots/Malls (> 50 Spaces)	Church of Latter Day Saints	30498 Eagle Creek Rd., located near intersection of River Mill & Eagle Creek Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Lawn Care - Highly Maintained Areas						Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
921	Farm Machinery Repair	farm machinery	located on the east side of Tracy Rd. at Linde Ln.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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922	Fleet/Trucking/Bus Terminals	dump trucks	located on the east side of Tracy Rd. at Rhodes Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Small fleet of trucks.
923	Grazing Animals (> 5 large animals or equivalent/acre)	livestock - cattle	located at the northeast corner at the intersection of Snuffin & Davis Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
924	Lawn Care - Highly Maintained Areas	Eagle Fern Camp	located at the intersection of Snuffin & Camp Rd.	Clackamas Co (unincorp)	Field-Observation	Within sensitive area.	Moderate	Over-application or improper handling of pesticides or fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants to groundwater or surface water through runoff.	
	Large Capacity Septic Systems (serves > 20 people) - Class V UICs						Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
925	Managed Forest Land - Clearcut Harvest (< 35 yrs.)	clearcut area	located on the east side of George Rd., south of Jannsen Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Cutting and yarding of trees may contribute to increased erosion, resulting in turbidity and chemical changes in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water source.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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926	Grazing Animals (> 5 large animals or equivalent/acre)	livestock - horses	located on the east side of George Rd., northwest of Clausen Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Higher	Improper storage and management of animal wastes may impact drinking water supply. Concentrated livestock may contribute to erosion and sedimentation of surface water bodies.	
927	Crops - Nonirrigated (inc. Christmas trees, grains, grass seed, pasture)	Christmas trees	town of George - located on the east side of George Rd., south of Clausen Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Some agricultural practices may result in excess sediments discharging to surface waters, but non-irrigated crops are generally considered to be a low risk.	
928	Fire Station	George Fire Station / Substation	town of George - located on the south side of George Rd., south of Clausen Rd.	Clackamas Co (unincorp)	Field-Observation	Outside sensitive areas.	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Utility Stations - Maintenance Transformer Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials including PCBs during transportation, use, storage and disposal may impact the drinking water supply.	
929	Machine Shops	Axlemaster Machining Services Incorporated	16345 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
930	Plastics/Synthetics Producer	Hi Tech Injection Molding	15865 SE 114th Avenue, Suite H	Clackamas	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents and resins during transportation, use, storage and disposal may impact the drinking water supply.	

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931	Machine Shops	Almico Precision Tooling	15865 SE 114th Avenue, Suite E	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	Manufactures molds for injection molding.
932	Metal Plating/Finishing/Fabrication	Heat Master Corporation	15865 SE 114th Avenue, Suite D	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Metal fabrication and duct cleaning.
933	Other Miscellaneous Manufacturing	Warm Spirit	15865 SE 114th Avenue, Suite A	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Company manufactures herbal extracts, cosmetics, etc.
934	Machine Shops	R & J Tool Grinding	15875 SE 114th Avenue, Suite M	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
935	Machine Shops	Patch Machine	15875 SE 114th Avenue, Suite L & K	Clackamas	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
936	Other Commercial Industrial Coatings	Sola Custom Coating	15875 SE 114th Avenue, Suite J	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	

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937	Other Construction Company	Site Tech	15875 SE 114th Avenue, Suite C	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
938	Other Miscellaneous Manufacturing	Elpis International Incorporated	15875SE 114th Avenue, Suite A & B	Clackamas	Interview	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Manufacturer of reverse osmosis units.
939	Fleet/Trucking/Bus Terminals	All Sports	11245 SE Hwy. 212	Clackamas	Field-Observation Interview	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Large distribution facility with numerous loading docks.
940	Food Processing	Clean Pak	SE Hwy. 212	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
941	Metal Plating/Finishing/Fabrication	General Sheet Metal	11235 SE Hwy. 212	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
942	Other Glazing Contractors	Mountain Glass	11231 SE Hwy. 212	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
943	Boat Services/Repair/Refinishing	Ampro	11497 SE Hwy. 212	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of fuels, septage, maintenance chemicals, sandblasting wastes, paints, and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Boat propeller repair; welding and machine shop on-site.
944	Chemical/Petroleum Processing/Storage	Fuller Brothers	11507 SE Hwy. 212	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Chemical storage and manufacturing facility on-site. Manufacturer of rust inhibitor for truck wheels. Also manufactures two food-grade additives and propylene glycol.
945	Furniture/Lumber/Parts Stores	Countertops & More	11523 SE Hwy. 212	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	Countertop installation business that uses materials such as marble, granite, etc.
946	Chemical/Petroleum Processing/Storage	Chem-tek	11527 SE Hwy. 212	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Manufactures finishes for ceramics, wood, etc. Company claims to be non-hazardous to environment.
947	Other Medical Equipment Manufacturing	Dravon Medical Incorporated	11465 SE Hwy. 212	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Manufacturer of medical equipment and instruments.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
948	Other Construction Company	Oregon Excavating	15850 SE 114th Avenue	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Limited equipment maintenance on-site as it occurs.
949	Other Construction Company	Platinum Construction Services	15820 SE 114th Avenue	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
950	Photo Processing/Printing	Echo Printing	15816 SE 114th Avenue	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Print shop with offset presses.
951	Photo Processing/Printing	Silver Bullet Incorporated	15808 & 15804 SE 114th Avenue	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
952	Photo Processing/Printing	Safeguard P.M. Printing	15810 SE 114th Avenue	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
953	Plastics/Synthetics Producer	Creative Plastic Injection Molding	15800 SE 114th Avenue	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents and resins during transportation, use, storage and disposal may impact the drinking water supply.	
	Chemical/Petroleum Processing/Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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954	Chemical/Petroleum Processing/Storage	Integrity Painting	15814 SE 114th Avenue	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Paint storage on-site.
955	Machine Shops	Starley	15796 SE 114th Avenue	Clackamas	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	Manufacturing associated with welding.
	Metal Plating/Finishing/Fabrication						Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
956	Metal Plating/Finishing/Fabrication	Clackamas Tool & Welding	15648 SE 114th Avenue, Suite 101	Clackamas	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Tool and die work and welding repair.
	Other Mold & Die						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
957	Other Construction Company	Goodfellow Brothers Contractors	15648 SE 114th Avenue, Suite 201	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
958	Automobiles - Repair Shops	Guardian Interlock Systems	15648 SE 114th Avenue, Suite 105	Clackamas	Interview	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Business specializes in ignition systems.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
959	Other Construction Company	Tri-Span Construction	15648 SE 144th Avenue, Suite 209	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
960	Other Construction Company	Tri-West Building Corporation	15648 SE 114th Avenue, Suite 111	Clackamas	Interview	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
961	Plastics/Synthetics Producer	Thermo Vac	15635 SE 114th Avenue, Suite 108	Clackamas	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents and resins during transportation, use, storage and disposal may impact the drinking water supply.	Thermally molded signs, etc.
962	Other Construction Company	R.B.C. Construction	15635 SE 114th Avenue, Suite 103	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Headquarters of construction firm.
963	Automobiles - Repair Shops	Complete Auto	15440 SE Piazza Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
964	Machine Shops	K & Y Enterprises	15420 SE Piazza Avenue	Clackamas Co (unincorp)	Field-Observation Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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965	Machine Shops	Double J Machine	15425 SE Piazza Avenue	Clackamas Co (unincorp)	Field-Observation Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
966	Other Shopping Cart Repair	West Coast Cart Company	15429 SE Piazza Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
967	Machine Shops	Pacific Swiss & Manufacturing Company	15423 SE Piazza Avenue	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
968	Other Cabinet Manufacturing	Henstein's Custom Cabinets, Incorporated	15445 SE Piazza Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
969	Food Processing	Pacific Seafood	15501 SE Piazza Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
970	Food Processing	Piazza Pizza	15815 SE Piazza Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
971	Fleet/Trucking/Bus Terminals	AmeriSource	10151 SE Jennifer Street	Clackamas Co (unincorp)	Field-Observation Interview	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Wholesale distributor of health and beauty products; many trucks and warehouse at site.
972	Fleet/Trucking/Bus Terminals	Maco Wood Products	10151 SE Jennifer Street	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Furniture; truck traffic.
	Wood/Pulp/Paper Processing and Mills						Higher	Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
973	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas	Garden Distributor Northwest	10315 SE Jennifer Street	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	Trucks; garden supplies.
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
974	Fleet/Trucking/Bus Terminals	large warehouse facility/multiple businesses	10755-10955 SE Jennifer Street	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Large warehouse facility comprised of several businesses.
975	Cement/Concrete Plants	Concrete Services Incorporated	11340 SE Jennifer Street	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and high turbidity wastewaters during transportation, use, storage and disposal may impact the drinking water supply.	Concrete plant and concrete mixer trucks.

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976	Above Ground Storage Tanks - Excluding Water	Inman & Company	12530 130th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
	Other Livestock Vitamins						Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
977	Stormwater Retention Basins	Jennifer Distribution Center	130th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	Large complex.
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
978	Metal Plating/Finishing/Fabrication	Wishart's Welding	12-670 Capps Road	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Wrought iron fences.
979	Home Manufacturing	Komfort Coach	Sunrise Corridor Business Center	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Manufacturer of mobile homes.
980	Other Construction Company	Clackamas Enterprises (Jerry Jennings)	11627 SE Capps Road, at the en of Capps Rd.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Construction firm.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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981	Other Construction Company	Elting Incorporated	16793 SE 120th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
982	Other Medical Equipment Manufacturing	Wy'East Medical Corporation	16700 SE 120th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Manufacturer of medical products - stretchers, gurneys, etc.
983	Furniture/Lumber/Parts Stores	Hardwood Floors Incorporated	Carpenter Drive	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	
984	Stormwater Retention Basins	detention pond	located on the corner of Carpenter Drive & 120th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	The detention pond is part of the Komfort Coach development located at Jennifer Street and 130th Avenue. It was new in November of 2001 when the PCS field data was gathered.
985	Wells/Abandoned Wells	residential area - homes on river with wells	located on 130th Avenue, at river - east of Wilde Rd.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Improperly installed or maintained wells and abandoned wells may provide a direct conduit for contamination to groundwater and drinking water source.	Wells associated with Zimmerman, Stanfill and Nelson. The entire road east of Wilde Rd. (130th Avenue) was noted as being on wells.
986	Wood/Pulp/Paper Processing and Mills	Structural Wood Products	16805 SE 130th Avenue	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Manufacturer of trusses and distributor of elaminated beams.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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987	Transmission Lines - Right-of-Ways	Transmission Lines	through drinking water protection area	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Construction and corridor maintenance may contribute to increased erosion and turbidity in drinking water supply. Over-application or improper handling of pesticides or fertilizers may impact drinking water supply.	
988	UST - Confirmed Leaking Tanks - DEQ List	Carson Oil	located on the south side of Hwy. 212, west of Evelyn Street	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Existing contamination from spills, leaks, or improper handling of stored materials may impact the drinking water supply.	Leaking tanks - previously confirmed; past site of known release.
	Automobiles - Gas Stations						Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	
989	Automobiles - Gas Stations	Texaco Gasoline Station	east of Evelyn Street/102nd Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	
990	Automobiles - Repair Shops	Smith Crane Incorporated	10320 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Cranes and auto.
991	Metal Plating/Finishing/Fabrication	Con Met	10448 Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Manufacturer of truck parts, and die casting.
	Other Mold and Die						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	

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992	Chemical/Petroleum Processing/Storage	Spa Outlet Incorporated	10560 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	On-site chemical storage possible. Potential risk should be verified.
993	Automobiles - Gas Stations	76 Gasoline Station	west of 106th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	
994	Automobiles - Repair Shops	Les Schwab Tire Center	10602 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
995	Other Tanneries	Angelo's Tannery	10724 SE Hwy. 212, #3, located in the Colonial Business Center	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Small business.
996	Machine Shops	Elliot's Precision Tooling	10740 SE Hwy. 212, located in the Colonial Business Center	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
997	Machine Shops	C & L Custom Tooling	10736 SE Hwy. 212, located in the Colonial Business Center	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	

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998	Automobiles - Repair Shops	The Personal Touch	10788 SE Hwy. 212, located in the Colonial Business Center	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Automotive detailing.
999	Photo Processing/Printing	Clackamas Blueprint	located in the Colonial Business Center	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	No photoprocessing.
1000	Chemical/Petroleum Processing/Storage	Mobile Laboratory Products	10802 SE Hwy. 212, located in the Colonial Business Center	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
1001	Other Miscellaneous Vehicle Repair and Service	Northwest Outdoor Equipment	11951 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	John Deere distributor.
1002	Boat Services/Repair/Refinishing	Magnum Marine	11901 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of fuels, septage, maintenance chemicals, sandblasting wastes, paints, and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
1003	Automobiles - Repair Shops	Pritchard's Truck Repair	11857 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	

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1004	Automobiles - Repair Shops	Big O Tires	11773 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Tires, brakes, shocks, etc.
1005	Automobiles - Repair Shops	Advanced Muffler & Brake	11779 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
1006	Automobiles - Repair Shops	Clutch Doctors	11773 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
1007	Other Construction Company	Emmert International	11811 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
1008	Automobiles - Repair Shops .	Rey Reece Trucks & Equipment	11791 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Truck repair shop.
1009	Chemical/Petroleum Processing/Storage	Grainger Industrial Supply	11767 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Very large warehouse, abundance of products.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1010	Automobiles - Repair Shops	212 Auto Repair	12128 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	Two business, Nelson & Nelson and 212 Auto Repair, share the same facility.
1011	Automobiles - Body Shops	Nelson & Nelson Body & Paint	12128 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	
1012	Other Miscellaneous Manufacturing	D & G Bait Incorporated	15981 SE 120th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Bait manufacturing and processing business. Borax is of concern as it is an additive used in this manufacturing process.
1013	Fleet/Trucking/Bus Terminals	Rollins Truck Rentals & Leasing	15975 SE 130th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Above Ground Storage Tanks - Excluding Water						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1014	Metal Plating/Finishing/Fabrication	Flomatic International	12990 SE Hwy 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Manufacturer of beverage heads, taps. Process and materials used in manufacturing of product are unknown. Potential risk should be verified. Reduced to moderate risk as process, and materials, used in manufacturing of product are unknown.
	Plastics/Synthetics Producer						Moderate	Spills, leaks, or improper handling of solvents and resins during transportation, use, storage and disposal may impact the drinking water supply.	
	Other Miscellaneous Manufacturing						Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1015	Other Parts Distributor for Heavy Equipment	Okada America	12950 SE Hwy. 212, Building D	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Distributor of parts for heavy equipment. Components - hydraulic.
1016	Other Secondary Wood Products Industry	Sundance Shutters	12770 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Manufacturer of shutters and blinds.
1017	Chemical/Petroleum Processing/Storage	Space-Pak	12330 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Manufacturing of styrofoam from petrochemicals. Possible air quality problem; potential emissions issue.
1018	Metal Plating/Finishing/Fabrication	Peerless Chain	12470 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Possible manufacturer of chains; manufacturing status is unknown. Potential risk should be verified.
1019	Machine Shops	Air Gas	13012 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
1020	Fleet/Trucking/Bus Terminals	Western Bus Sales	13016 SE Hwy. 212 - located behind (south of) 13012 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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1021	Wood/Pulp/Paper Processing and Mills	D & M Pallets	13100 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Pallet dismantling and storage facility. Business has a history of violations.
1022	Other Miscellaneous Vehicle Repair & Service	Metro Tractor Incorporated	11955 SE Hwy. 212, entrance to facility is from SE 130th Ave by Clackamas Feed	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	The entrance is located next to the Harmony House. On-site, unpaved lot is extremely muddy. Large business; heavy equipment present. Equipment maintenance is also done on-site.
1023	Automobiles - Gas Stations	Space Age Gas	located on SE 135th Avenue at Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	
1024	Stormwater Retention Basins	large stormwater retention basin & treatment facility	located at the corner of SE Jennifer St. & 135th Ave.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Stormwater run-off may contain a wide variety of contaminants from residential, commercial/industrial, and agricultural use areas.	
1025	Automobiles - Repair Shops	Tim's Automotive	15688 SE 135th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
1026	Automobiles - Repair Shops	The New Tire & Battery Place	SE 135th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	In February 2001, when the field data was collected, this business was noted as not yet being occupied.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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1027	Photo Processing/Printing	Smith Imaging Supply Incorporated	16077 SE 98th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
1028	Parking Lots/Malls (> 50 Spaces)	Trammell - Crow	SE 98th Avenue, near Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	This is a very large warehouse/business complex. Large, paved, parking area on-site. Major truck traffic also exists at location.
1029	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas	Central Garden & Pet	16201 SE 98th Avenue, entire building	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Higher	Leaks, spills and improper handling of pesticides, fertilizers and petroleum products may impact drinking water source.	Large distributor of liquid pesticides, etc., and dry chemicals.
1030	Fleet/Trucking/Bus Terminals	Sygma Trucking	16221 SE 98th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
1031	Fleet/Trucking/Bus Terminals	3 J's Distributing Company	16123 SE 98th Avenue	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	Trucking company.
1032	Photo Processing/Printing	Higgins Signs	located at 98th Avenue & Violet St.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

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1033	Fleet/Trucking/Bus Terminals	Gordon Trucking Incorporated	15628 SE 102nd Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
1034	Cement/Concrete Plants	Oregon Wilbert Vault Company	15520 SE 102nd Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and high turbidity wastewaters during transportation, use, storage and disposal may impact the drinking water supply.	Casting of burial vaults in concrete.
1035	Machine Shops	Pesznecker Brothers Incorporated	15500 SE 102nd Avenue	Clackamas	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	General machine shop.
1036	Military Installations	Camp Withycombe	located on Clackamas Rd.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply. Other potential contaminant sources may include ordnance or waste landfills/dump sites.	Army installation, Oregon National Guard Facility. According to field data dated 11/29/00, a potential EPA cleanup was noted as being in the works.
1037	Waste Transfer/Recycling Stations	K & B Recycling	located on SE 98th Avenue at Clackamas Rd.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Improper management of water contacting waste material may impact the drinking water supply.	On 11/29/00 this facility was still under construction. At this time the Court of Appeals had agreed to extend K & B's permit to build. The recycling facility currently remains in the construction phase.

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1038	Junk/Scrap/Salvage Yards	Tire Disposal & Recycling	9625 SE Clackamas Rd.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	Tire disposal and shredding facility.
1039	Other Commercial & Industrial Coatings	S & K Painting	15355 Industrial Way	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Company sandblasts and paints bridges, ect. Extensive equipment present at site.
1040	Automobiles - Repair Shops	Same Day Auto Service	16009 SE 106th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
1041	Other Cabinet Manufacturing	Priest Enterprises Incorporated (P.E.I.)	16015 SE 106th Avenue	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
1042	Automobiles - Body Shops	The Refinishing Touch	16075 SE 106th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	Auto body repair shop.
1043	Chemical/Petroleum Processing/Storage	Fabrene Corporation / Polymer Group Incorporated (P.G.I.)	16225 SE 106th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
1044	Other Street Sweeping & Stripping	Cantel Sweeping	16110 SE 106th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Parking lot maintenance and stripping services.

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1045	Machine Shops	Miller Engineering & Manufacturing	16088 SE 106th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	General machine shop.
1046	Machine Shops	Pacific Scale	16002 SE 106th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	Scale repair business; some manufacturing of parts on-site.
1047	Photo Processing/Printing	Cornerstone Graphics	15800 SE Piazza Avenue, Suite 105	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Design and printing; digital pre-press.
1048	Metal Plating/Finishing/Fabrication	Bell Heating Incorporated	15550 SE Piazza Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
1049	Other Cabinet Manufacturing	Hillger Custom Cabinets	15484 SE Piazza Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
1050	Furniture/Lumber/Parts Stores	Clackamas Countertops	17763 SE 82nd Drive, located on the southwest side	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	

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1051	Furniture/Lumber/Parts Stores	BYGG Incorporated	17785 SE 82nd Drive, located on the southwest side	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	
1052	Other Wholesaler of Exotic Bird Supplies	West Coast Seed & Supply	17825 SE 82nd Drive, located on the southwest side	Gladstone	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Potential risk should be verified.
1053	Parking Lots/Malls (> 50 Spaces)	large parking lot area	17000 SE 82nd Drive	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Large combined parking area located on the west side of SE 82nd Drive.
1054	Other Miscellaneous Manufacturing	Lanco Manufacturing & Distribution	17785 SE 82nd Drive, located on the southwest side	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Potential risk should be verified.
1055	Transportation - Railroads	Railroad	located on the east side of SE 82nd Drive	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Rail transport elevates the risk for leaks/spills of fuel & other haz. materials. Installation/maintenance of tracks may increase erosion & slope failure causing turbidity. Over-application/improper handling of pesticides may impact the water supply.	
1056	Automobiles - Body Shops	Kadel Auto Body	16710 SE 82nd Drive, located on the northeast side	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	

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1057	Parking Lots/Malls (> 50 Spaces)	large parking lot area	located on the northeast side of SE 82nd Drive, in the 16000 block area	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Very large combined parking area, located across the street from Fred Meyers.
1058	Chemical/Petroleum Processing/Storage	Oregon Hot Springs Spas	16112 SE 82nd Drive, located on the northeast side	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
1059	Dry Cleaners	Thomas Joseph Dry Cleaning	located near 16014 SE 82nd Drive	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of dry cleaning solvents and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
1060	Photo Processing/Printing	Minuteman Press	16056 SE 82nd Drive	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
1061	Chemical/Petroleum Processing/Storage	Norflow Incorporated	9333 SE Alansa Drive	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Pump, pool and spas.
1062	Automobiles - Body Shops	Innovation Auto-Body & Paint	9353 SE Alansa Drive, Suite A	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	

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1063	Automobiles - Body Shops	Automotive Paint Specialties (A.P.S.)	9353 SE Alansa Drive	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	
	Other Paint Shop						Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
1064	Other Construction Company	L.Z.N. Construction	located on, or near, Cackamas Road	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
1065	Fleet/Trucking/Bus Terminals	Rob's Automotive & Fleet	9376 SE Church	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Automobiles - Repair Shops						Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
1066	Other Equipment Rental	United Rentals	15180 SE 82nd Drive	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Equipment rental, propane, etc.
	Above Ground Storage Tanks - Excluding Water						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	

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1067	Other Medical Equipment Manufacturing	Astoria Pacific Incorporated	15130 SE 82nd Drive	Clackamas	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Manufacturer of medical instruments. Potential risk should be verified .
1068	Other Beverage Services	Aramark Refreshment Services	15140 SE 82nd Drive	Clackamas	Interview	Unknown if in a sensitive area	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
1069	Photo Processing/Printing	Classic Business Printing	15115 SE 82nd Drive	Clackamas	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
1070	Schools	Clackamas Elementary School	15301 SE 92nd Avenue	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Moderate	Over-application or improper handling of cleaning products, pesticides or fertilizers used on the school grounds may impact drinking water. Vehicle maintenance wastes may contribute contaminants.	
1071	Automobiles - Repair Shops	RTV & Sport	15229 SE 82nd Drive	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
1072	Other Optical Plastics	Optical Plastics	9111 SE St. Helens	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Potential risk should be verified.

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Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1073	Other Commercial Industrial Coatings	Sola Custom Coatings	9117 SE St. Helens	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
1074	Photo Processing/Printing	Coulter Printing Incorporated	9132 SE St. Helens	Clackamas	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of photographic chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
1075	Automobiles - Gas Stations	Texaco Gasoline Station	located on the southwest corner at the intersection of 82nd Drive & Hwy. 212	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	
1076	Automobiles - Gas Stations	Chevron Gasoline Station	located on the northwest corner at the intersection of 82nd Drive & Hwy. 212	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels and other materials during transportation, transfer, and storage may impact the drinking water supply.	
1077	Parking Lots/Malls (> 50 Spaces)	Fred Meyer Department Store	located on the west side of SE 82nd Drive, just south of Hwy. 212	Clackamas		Unknown if in a sensitive area	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	Chemical/Petroleum Processing/Storage						Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
1078	Wastewater Treatment Plants/Collection Stations	Clackamas County Service District #1 Pump Station	located on SE Evelyn St., at the corner of Evelyn & Jennifer St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Improper management of wastewater, treatment chemicals, or equipment maintenance materials may impact drinking water supply.	Pump station for sanitary wastewater.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1079	Fleet/Trucking/Bus Terminals	Davis Trucking	16795 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
1080	Food Processing	Interstate Meat Distributors Company	9550 Last Rd.	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
1081	Transportation - Railroads	Railroad	extends east to west on Last Rd.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Rail transport elevates the risk for leaks/spills of fuel & other haz. materials. Installation/maintenance of tracks may increase erosion & slope failure causing turbidity. Over-application/improper handling of pesticides may impact the water supply.	
1082	Metal Plating/Finishing/Fabrication	Security Chain	16131 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
1083	Metal Plating/Finishing/Fabrication	Riehl Industries	16076 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	
1084	Junk/Scrap/Salvage Yards	C.S.M.	16022 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of automotive chemicals, batteries, and other waste materials during storage and disposal may impact the drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1085	Machine Shops	A.J.K. Precision Sheet Metal	16077 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
1086	Machine Shops	All Star Machine	16077 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
1087	Machine Shops	Northwest Mold & Die	16011 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
1088	Other Cast Molding	Strygel Mold Company	16009 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
1089	Automobiles - Repair Shops	Bill's Datsun	16087 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of automotive fluids, solvents, and repair materials during transportation, use, storage and disposal may impact the drinking water supply.	
1090	Other Concrete Cutting	Concrete Sawing Company	16119 SE Evylyn St.	Clackamas	Field-Observation	Unknown if sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Walkway area recently improved for drainage purposes. Various equipment on-site.

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1091	Automobiles - Body Shops	Speer Auto Body Incorporated	16183 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	Improper management of vehicle paints, thinners, and primer products may impact the drinking water supply.	Possible fiberglass repair.
1092	Chemical/Petroleum Processing/Storage	Rust Busters	16345 SE Evelyn St.	Clackamas	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Potential risk should be verified

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1093	Chemical/Petroleum Processing/Storage	Fred Meyer Warehouse / Distribution Center	11500 SE Hwy.212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Known release site for diesel fuel; trucks. Agricultural chemicals etc., and bakery at site.
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Food Processing						Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
	UST - Confirmed Leaking Tanks - DEQ List						Moderate	Existing contamination from spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
	UST - Not Upgraded and/or Registered Tanks						Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	
1094	Other Paving Company	Bachman Paving Company	15278 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1095	Metal Plating/Finishing/Fabrication	Tim's Boiler Repair	located on Hwy. 224 at Midway St., in Carver	Carver	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Metal fabrication.
1096	Food Processing	Sportsmen's Meat Cutting	16259 SE Grand, at Hwy. 224 in Carver	Carver	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
1097	Wood/Pulp/Paper Processing and Mills	Pacific Western Arrowhead	16051 Hwy. 224	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of wood preservatives and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Bark, firewood, old lumber and wood.
1098	Food Processing	Siri & Sons Farms	16410 Hwy 224	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Crop processing at site.
	Farm Machinery Repair						Moderate	Spills, leaks, or improper handling of solvents and petroleum products during transportation, use, storage and disposal may impact the drinking water supply.	
	Crops - Irrigated (inc. orchards, vineyards, nurseries, greenhouses)						Higher	Over-application or improper handling of pesticides/fertilizers may impact drinking water. Excessive irrigation may transport contaminants or sediments to groundwater/surface water through runoff. Drip-irrigated crops are considered to be a low risk.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1099	Septic Systems - High Density (> 1 system/acre)	Sunrise Valley Mobile Home Park	151st Avenue at Morning Way, north at Hwy.212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water. Cumulative effects of multiple systems in an area may impact drinking water supply.	
	Housing - High Density (> 1 House/0.5 acres)						Moderate	Improper use, storage, and disposal of household chemicals may impact the drinking water supply. Stormwater run-off or infiltration may carry contaminants to drinking water supply.	
1100	Metal Plating/Finishing/Fabrication	Jay Engineering Company	15010 Morning Way	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Metal fabrication. This is a large complex still under construction. As of February 2001, the majority of the facility was not yet occupied.
1101	Fleet/Trucking/Bus Terminals	Associated Grocers Incorporated	14505 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
1102	RV/Mini Storage	EZ Storage	15434 SE 142nd Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Lower	Spills, leaks, or improper handling of automotive fluids and other materials during transportation, storage and disposal may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1103	Fleet/Trucking/Bus Terminals	Emerald Christmas Tree Company	15828 SE 114th Avenue, at same location as IITR Truck Driving School	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
1104	Fleet/Trucking/Bus Terminals	I.I.T.R. Truck Driving School	15828 SE 114th Avenue	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
	Parking Lots/Malls (> 50 Spaces)						Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	
1105	Parking Lots/Malls (> 50 Spaces)	Hines Don Trucking	13601 SE Hwy. 212	Clackamas	Interview	Unknown if in a sensitive area	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Major business operation. Major flooding of lot at periods of high stream flow - at bottom of 135th Ave. Stream is culverted under lots.
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
1106	Fleet/Trucking/Bus Terminals	Celorie Brothers	13585 Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	

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TABLE 3. INVENTORY RESULTS - LIST OF POTENTIAL CONTAMINANT

PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1107	UST - Status Unknown	RV Storage	13565 Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of stored materials may impact the drinking water supply.	Potential risk should be verified. RV storage - tanks may or may not be present - Texaco sign.
1108	Other Cabinet Makers	Johnson's Cabinets	13499 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Cabinet shop.
1109	Other Miscellaneous Vehicle Repair and Service	C.T.I. Manufacturing	13489 SE Hwy. 212	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Business manufactures and sells trailers - utility and hydraulic dump trailers.
1110	Parking Lots/Malls (> 50 Spaces)	Western Bus Sales	13479 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills and leaks of automotive fluids in parking lots may impact the drinking water supply.	Business sells new and used school buses, etc.
	Fleet/Trucking/Bus Terminals						Moderate	Spills, leaks, or improper handling of fuels, grease, solvents, and other materials from vehicle service, fueling, and parking areas may impact the drinking water supply.	
1111	Furniture/Lumber/Parts Stores	ABE Electric	13273 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of hazardous chemical products and other materials in inventory during transportation, use, storage and disposal may impact the drinking water supply.	Retail business; electrical parts store. Service bays observed and noted.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1112	Boat Services/Repair/Refinishing	Clackamas Marine - Drift Boats Sales & Service	13111 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of fuels, septage, maintenance chemicals, sandblasting wastes, paints, and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Manufacturer of drift boats.
1113	Machine Shops	Hegar Water Jet Cutting Service	15600 SE For-Mor Ct.	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	Metal cut on-site with water jets containing garnet.
1114	Other Miscellaneous Manufacturing	Enviro Pak/Teck Mart	15450 SE For-Mor Ct.	Clackamas Co (unincorp)	Interview	Unknown if in a sensitive area	Lower	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Assembly of commercial ovens for smoking, etc. Parts used in the assembly of ovens are manufactured elsewhere.
1115	Machine Shops	Gladstone Machine Incorporated	15451 SE For-Mor Ct.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals or materials during transportation, use, storage and disposal may impact the drinking water supply.	
1116	Other Miscellaneous Manufacturing	American Wood Dryers	15495 SE For-Mor Ct.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Manufacturer of metal racks for drying wood.
1117	Other Miscellaneous Manufacturing	Thermo-Lite	15507 SE For-Mor Ct.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Manufacturer of skylights.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1118	Medical/Vet Offices	J.B. Dental Supply	15525 SE For-Mor Ct.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Lower	Spills, leaks, or improper handling of x-ray, biological, chemical, and radioactive wastes and other materials during transportation, use, storage and disposal may impact the drinking water supply.	Dental supply; potential for mercury and other chemicals.
1119	Food Processing	Tree of Life Gourmet	12601 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
1120	Metal Plating/Finishing/Fabrication	Met-Tek, Incorporated Heat Treating	15651 SE 125th Ct.	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Various metals used at site; heat treating.
1121	Other Construction Company	Wayne Jeske	12435 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	
1122	Waste Transfer/Recycling Stations	Knez Building Materials	2301 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Improper management of water contacting waste material may impact the drinking water supply.	Recycling and transfer station for used building materials such as sheet rock, etc.
1123	Wastewater Treatment Plants/Collection Stations	Cascade Phillips	12211 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Improper management of wastewater, treatment chemicals, or equipment maintenance materials may impact drinking water supply.	Disposal and collection area for sanitary waste from portable toilet facilities.
1124	Metal Plating/Finishing/Fabrication	Master Fire Control Incorporated	12125 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of solvents, metals, and other chemicals during transportation, use, storage and disposal may impact the drinking water supply.	Delivery and installation of sprinkler systems.

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PWS# 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (See Figure)	Potential Contaminant Source Type	Name	Approximate Location	City	Method for Listing	Proximity to Sensitive Areas	Relative Risk Level (1)	Potential Impacts	Comments
1125	Other Miscellaneous Vehicle Repair and Service	Metro Tractor Incorporated	12111 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Moderate	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage, and disposal may impact the drinking water supply.	Sales, rental and maintenance of equipment at site.
1126	Chemical/Petroleum Processing/Storage	Spa & Pool Country	11955 SE Hwy. 212	Clackamas Co (unincorp)	Field-Observation	Unknown if in a sensitive area	Higher	Spills, leaks, or improper handling of chemicals and other materials during transportation, use, storage and disposal may impact the drinking water supply.	
1127	Sewer Lines - Close Proximity to PWS	sewer line	SE Capps Road	Clackamas	Field-Observation	Unknown if in a sensitive area	Moderate	If not properly designed, installed, and maintained, sewer lines can impact drinking water, especially adjacent to a waterbody or within the 2-year time-of-travel zone for drinking water wells.	A major sewer line runs along Capps Rd., which is located next to the Clackamas River.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
1	533302.4387	5025022.874	residential on septic systems	between Forsythe and Carver on Clackamas River Drive (CRD)
2	533670.3951	5025431.626	Clackamas River Drive	road through DWPA
3	533053.1449	5024960.689	South Fork Water Board Intake	13074 CRD
4	533731.0741	5025939.812	boarding stable ?	14135 CRD
5	533162.8698	5024931.425	Main Stem of Clackamas River	through DWPA
6	533819.0181	5024847.834	Serres Nursery	Forsythe Rd. between S. Highland Rd. and Hunter Ave.
7	533306.9958	5024674.28	residential on septic systems	Forsythe Rd.
8	533466.4374	5024793.771	slide area	Forsythe Rd. between S. Highland Rd. and Hunter Ave.
9	533043.837	5025265.241	residential	at end of Edgewater Street
10	533190.9521	5025618.469	Southern Pacific Railroad	parallel to Clackamas River
11	533294.5436	5025430.808	residential	Evergreen Lane
12	533064.2877	5025663.372	Oregon Self Storage	660 SE 82nd Drive
13	533165.3655	5025737.488	Clackamas River Club	790 SE 82nd Drive
14	533188.122	5025890.601	Holly View Court	1180 SE 82nd Drive
15	533712.5037	5026298.036	North Clackamas County Water Commission	14275 Clackamas River Drive
16	534246.8496	5026748.453	residential on septic systems	between Forsythe and Carver on Clackamas River Drive
17	534218.7033	5026562.253	Clackamas River Drive	through DWPA
18	533609.9568	5026301.913	Main Stem of Clackamas River	through DWPA
19	534126.1165	5026559.423	Clackamas River Drive	through DWPA
20	534208.9666	5025225.251	residential on septic systems	Forsythe Rd. between Brunner Rd. and Highland Rd.
21	534185.8852	5025292.219	Nursery	14703 Forsythe Rd.
22	533972.5475	5025729.235	residential on septic systems	Highland Rd.
23	533973.4846	5026027.698	Managed Forest Lands	Highland Rd.
24	533209.6398	5025944.605	Maxwell Mold and Machine Shop	960 SE 82nd Drive
25	533203.5821	5025993.193	Gladstone School Bus Station	north of Wheeler Ct.
26	533197.4286	5026054.887	R & R Automotive	1250 SE 82nd Drive
27	533213.2037	5026117.25	Classic Pool and Spa	17875 SE 82nd Drive
28	533215.308	5026188.036	Riggers	17865 SE 82nd Drive
29	533216.9071	5026285.328	West Coast Screen Printing and various retail businesses	17855 thru 17765 SE 82nd Drive
30	533279.1334	5026274.121	RV & Auto Storage	across street form West Coast Screen Printing
31	533277.9439	5026163.43	small crops-irrigated	between Edgewater Rd. and RV & Auto Storage facility
32	533476.9315	5026744.43	residential	Casa Blanca Ct.
33	533474.6322	5026819.654	Clackamas Residential Park	SE Dean Drive

Notes:
(1) Universal Transverse Mercator (UTM) Zone 10, NAD27 projection X- and Y-coordinates. These are used to correlate to Figure 4. Spatial coordinates for Reference numbers 929-1127 are not available.

TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
34	533392.5819	5026900.976	residential	Tiffany Ct.
35	533481.8448	5026872.916	Briar Wood Town Homes	SE 82nd Drive
36	533536.847	5026958.426	Harmony Road Music	17300 SE 82nd Drive
37	533590.49	5027088.401	Village Place	9100 SE Scottstree Way
38	533743.4131	5027141.848	Safeway complex	SE 82nd and Jennifer St.
39	534843.4583	5027635.163	Mark's Metal Technology	10300 SE Jennifer St.
40	534885.4012	5027649.248	Clackamas Station	10315 SE Jennifer St.
41	533746.3371	5028203.064	retail businesses and office complexes	SE 82nd Drive, between Hwy 212 and SE 82nd Dr.
42	534157.6565	5027631.88	Street Sweeper Recycle	Jennifer St. and Evelyn St.
43	534021.1673	5027030.843	Oregon Department of Fish and Wildlife regional office	17330 SE Evelyn St.
44	534072.1294	5027527.756	P.G.E. Substation	Evelyn Street
45	534551.6107	5027120.217	Riverside County Park	Water Ave.
46	534361.3822	5027000.699	Clackamas County storage facility	Water Ave.
47	534636.997	5026850	residential area	between Forsythe Rd. and Carver on Clackamas River Drive (CRD)
48	536857.2541	5026708.452	residential	14760 CRD and 17610 CRD
49	536951.7142	5026440.646	residential area	between Forsythe Rd. and Carver on CRD
50	535387.1323	5026872.93	River Bend Youth Center/Youth Adventure Park	north side of CRD
51	535300.4918	5026894.973	Johnson Creek	through DWPA
52	534717.5461	5027037.192	main stem of Clackamas River	through DWPA
53	534468.1874	5026877.457	Clackamas River Drive	through DWPA
54	535445.875	5026566.842	crops - irrigated	16918 & 17539 CRD
55	537422.749	5026738.241	Brownell Holly Farm	north side of CRD
56	537673.3521	5026598.058	crops - nonirrigated	17494 CRD, on south side of CRD.
57	539292.6921	5026389.074	Rock Garden Tavern	17930 South CRD
58	538063.3163	5026326.789	residential area	Forsythe & Cliff View housing
59	536087.7094	5025306.152	residential area	on Forsythe Rd. from Bradley to Brunner Rd.
60	537385.5303	5025542.754	Avon Kennel	Bukstrom Rd. & Forsythe Rd.
61	537494.2796	5026014.003	residential area	Burkstrom Rd.
62	536876.2846	5025687.223	residential area	Victory Rd.
63	538446.1285	5026289.416	Outlook Tree Farm	Forsythe Rd.
64	538235.7668	5026319.868	boarding stable	16330 Forsythe Rd.
65	537996.3825	5026103.126	livestock	15987 Forsythe Rd.
66	537965.2418	5025905.249	crops - nonirrigated	15833 Forsythe Rd.
67	538043.3856	5025772.291	Forsythe Rd.	south of CRD
68	535260.1722	5025391.815	Oregon Dried Floral Farms	Beaton Rd.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
69	534357.8917	5025429.471	residential area	Brunner Rd.
70	534537.4923	5025677.305	Carpe Diem Farm	14681 South Brunner Rd.
71	534413.734	5026006.098	crops	Brunner Rd.
72	534395.849	5026351.844	residential area	Brunner Rd.
73	539775.6303	5027184.53	Carver	Hwy. 224
74	539566.3792	5026710.206	The Hanger	Hwy. 224
75	539457.3989	5026615.423	Carver Mobile Home Park	Hwy. 224
76	539349.0426	5026500.234	Carver Bridge	Clackamas River crossing between Carver & CRD
77	539514.7932	5026393.428	Carver Boat Ramp	Springwater Rd.
78	539240.8923	5027036.182	Full Circle Countryside School	north side of Hwy 224, 1/4 mile south of R. C. Rock Products
79	539194.4802	5027228.029	Park & Ride	Hwy. 224, in front of Full Circle Countryside School
80	539472.2164	5027785.532	Pacific Western Co. Saw Mill	16051 Hwy. 224
81	539138.44	5027724.721	Carver Community Well	16051 Hwy. 224
82	539336.6059	5027903.623	residential area	Hwy. 224
83	538954.1567	5027769.688	Riverview Mobile Home Park	15758 SE Hwy. 224
84	538878.8469	5027899.683	R.C. Rock Products	Hwy. 224
85	539055.0517	5028128.821	Engert Ridge	Hwy. 224 & Eckert Ln.
86	539152.6329	5027928.48	Orchard Lake & Halladin Heights	Hwy. 224 & Goose Hollow Dr.
87	538751.4245	5028078.993	Senior Care Center	Hwy. 224
88	538682.7443	5028331.125	Green Acres Country Store	Hwy. 224 & Hwy. 212
89	537525.1255	5028265.242	River Bend Mobile Home Park	Hwy. 224 & Hwy. 212
90	537341.1531	5028290.1	Shadow Brook Mobile Home Park	13640 Hwy. 224 & Hwy. 212
91	537273.823	5027830.18	Clackamas River Village Mobil Home Park	16312 SE 135th
92	536855.4204	5027207.107	Sha-Hah-Lee Golf Course	Capps Rd. & SE 130th
93	536684.2797	5027151.272	Warn Industries	12900 Capps Rd.
94	536790.774	5027327.369	Enway Northwood Food Products	16940 130th
95	536689.0477	5027334.319	Northwest Thermal Systems	12921 SE Capps Rd.
96	536509.1163	5027227.003	POFCO	13805 SE Capps Rd.
97	536278.6302	5027108.082	rural residential	12727 SE Capps Rd
98	536365.9455	5027253.414	Wymore Transfer	12651 SE Capps Rd
99	536243.509	5027259.73	A & B Reflectorizing	12250 SE Capps Rd.
100	536162.4984	5027247.194	Jim Smith Excavating	Wilde Rd.
101	536107.4352	5027253.436	Clackamas Sand & Gravel	Wilde Rd.
102	536091.9631	5027370.63	nursery	17581 SE Wilde Rd.
103	536197.5874	5027385.747	Wrights Custom Products	17150 Wilde Rd.
104	536101.6808	5027441.648	Delta Steel Supply	17140 Wilde Rd.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
105	536025.2622	5027239.036	Monocrest	11711 SE Capps Rd.
106	535981.9631	5027119.741	Clackamas Compost Products	11620 SE Capps Rd.
107	535828.7686	5027115.057	Ken Hood Recycling	11681 SE Capp Rd.
108	536061.2846	5027167.586	salvage yard	adjacent to Clackamas Compost Products
109	536032.983	5027425.221	Adel Medical Ltd.	SE 120th
110	535969.8685	5027375.737	John P. Lehl Company	SE 120th
111	535936.7744	5027231.758	McCafferty-Whittle Construction Company	5570850 120th
112	535956.3178	5027589.622	P.P.G. Finishes Distribution Center	11900 Jennifer St.
113	535762.9335	5027573.345	Precision Roof Trusses Inc.	Jennifer St. & 115 Ave.
114	535587.6381	5027523.785	Gary's Mustangs	SE 115th
115	535594.5171	5027408.463	Surgichrome	SE 115th
116	535634.2948	5027443.516	private residence / special asphalt products	16590 & 16569 SE 115th
117	535584.4166	5027629.159	Tri Fab Manufacturing Warehouse	SE 115th & Jennifer St.
118	535310.341	5027579.933	Concrete Services	11340 Jennifer St.
119	535721.3438	5027378.199	private residence	approximately SE 113th
120	535304.1385	5027443.787	Carley Creek	behind Concrete Services batching plant
121	535136.7293	5027584.99	Portland Road & Driveway	10960 SE Jennifer St.
122	534932.5182	5027364.449	Portland Road & Driveway	10500 SE Jennifer St.
123	534714.1919	5027156.889	SE Robert Avenue	east of Safeway Rd. off Jennifer St.
124	534511.3567	5027001.015	Clackamas River Water Drinking Water Treatment Plant	9100 Mangan Lane
125	534911.8582	5027591.529	Security Chain Company	106th & Jennifer St.
126	534769.0191	5027587.162	Blount Industries	10955 SE Jennifer St.
127	534704.2381	5027592.193	Holman Distribution Company	11401 SE Jennifer St.
128	534588.7071	5027592.015	C.B. Equipment Company Holman Trucking	12001 SE Jennifer St.
129	536188.729	5027755.241	USF Reddaway	122nd & Jennifer St., 12250 Ford St.
130	536147.9179	5027753.993	Fred Meyer Bakery	16274 122nd
131	536719.0965	5027747.374	Cornell Pump Company	130th & Jennifer St.
132	536778.2542	5027617.19	Mutual Materials Company	16800 SE 130th
133	536725.4161	5027620.451	A & B Reflectorizing	16795 SE 130th
134	536732.5555	5027227.433	ANI	16815 SE 130th
135	536782.9125	5027694.15	Safety Kleen	16540 SE 130th
136	536779.014	5027741.89	ProLogis	130th & Jennifer St.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
137	537098.3772	5027655.937	P.G.E.	SE Jennifer St.; across street from 13011 Jennifer St.
138	536780.8047	5027842.845	P & A Metal Fab Inc.	13009 Jennifer St.
139	536712.3239	5027809.353	Central Garden & Pet Supply	13011-205 Jennifer St. SE
140	536937.5742	5027969.877	FLOREXPO, LLC	13011-206 Jennifer St. SE
141	536438.3722	5027746.107	warehouse & distribution	13009-104 Jennifer St. (north side)
142	536780.3171	5027938.548	Clackamas Fire District No. 1	16100 130th
143	536736.995	5027939.662	Rolling Truck Rental & Leasing	15975 SE 130th
144	536782.7098	5028099.574	Ruan Mega Fleet	15800 SE 130th
145	536778.0756	5028171.373	Walco International Inc.	15760 SE 130th
146	536732.009	5027404.83	Kiwanda Machine Works Inc.	15756 SE 130th
147	536777.6533	5028264.944	MST Corp.	15740 SE 130th
148	536774.1026	5028221.549	Clackamas Feed & Pet Supply	15734 SE 130th
149	552329.1551	5014325.872	USFS Work Center	River Lake Rd.
150	551788.7479	5014591.015	River Lake Road	Estacada area
151	551865.7683	5014504.966	residential areas	River Lake Rd., Endive Rd., Dandelion Rd., Fuchia Rd., Poplar Rd.
152	550948.4672	5016177.352	River Mill Dam	At the end of Killowatt Ln. off River Mill Rd.
153	551124.7983	5015266.976	rural residential	South Serne Rd.
154	551210.6068	5014654.717	rural residential	South Sailing Rd.
155	550932.7579	5014031.023	South Estacada Road	south side of Estacada Rd. off Hayden Rd.
156	551978.0531	5014183.125	Hwy. 211	From Hwy. 224 to S. Day Hill Rd.
157	552005.5191	5013883.381	South Day Hill Road	located on south side of Hwy. 211
158	551987.1955	5013555.713	rural residence	22988 S. Day Hill Rd.
159	552278.2412	5012901.564	Cascade Utilities	S. Day Hill Rd.
160	552335.5694	5012741.746	rural residence	23250 S. Day Hill Rd.
161	551037.0585	5012904.126	Dubois Creek Lane	on west side of Hwy. 211, south of Hayden Rd.
162	550866.0635	5010771.013	Christmas tree farms / AM Nursery	25970 & 25951 S. Wallens Rd.
163	553312.2033	5010814.468	S. Kinzy Road	off Springwater Rd., east of Wallens Rd.
164	551779.3333	5012846.665	Perry Farms	23397 S. Reid Rd.
165	551215.1609	5014027.776	S. Reid Road	SW of Poplar Rd.
166	551242.4913	5013931.669	Laura Lane	on east side of Reid Rd.
167	550006.6292	5013501.506	Springwater Road	Springwater Rd., north and west of Wallen Rd. to Hayden Rd.
168	549340.2423	5014536.207	Springwater Grocery	25401 Springwater Rd.

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PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
169	549297.5684	5014615.687	Santa Gertrudis Flying K Ranch	Hayden Rd. & Springwater Rd.
170	549162.1277	5014817.622	Gerber Farm Supply	21879 Springwater Rd.
171	548977.2092	5015042.431	Springwater Road	Springwater Rd. north and west of Hayden Rd. to McIver Park
172	549316.879	5015170.191	Woodland Way	opposite of Park View Ln., west of McIver State Park
173	549325.1104	5015299.7	S. Park View Lane	opposite of Woodland Way, west of McIver State Park
174	550353.1701	5016184.131	Milo McIver State Park	located off Springwater Rd., between Redland Rd. & Hayden Rd.
175	539505.2995	5026414.781	Carver Park & Boat Launch	Carver
176	539701.0785	5026123.552	Emmerts Clackamas River Estates	NE side of Springwater Rd., between Hattan Rd. & Kanne Ln.
177	539813.3416	5026031.266	William's Oregon City Compression Station	15124 S. Springwater Rd., near Kanne Ln.
178	539702.3688	5025931.849	Willsada Park	S. Willsada Park Way, located on Clear Creek
179	540578.683	5025497.43	rural residence	15253 S. Springwater Rd.
180	539862.0999	5025932.161	S. Springwater Road	from Hattan Rd. to Bakers Ferry Rd.
181	541225.0601	5025813.198	Residential Housing High Density	Coquina Ave. & S. Springwater Rd.
182	541135.3026	5024910.569	rural residence	15430 S. Springwater Rd.
183	541485.7542	5023688.822	Springwater Road	from Bakers Ferry Rd. to Gerber Rd.
184	542692.4304	5023686.407	Babler Road	off Springwater Rd., between McCubbin Rd. & Gerber Rd.
185	543608.0731	5023381.836	Gerber Road	off Springwater Rd., between Babler Rd. & Harding Rd.
186	544153.7267	5021748.724	Springwater Road	from Gerber Rd. to Harding Rd., just west of Gerber Rd.
187	545629.8243	5020822.346	Indian Springs Trout Farm	17951 Springwater Rd.
188	545231.2635	5021912.162	Harding Road	NW of Eaden Rd., off Springwater Rd.
189	545196.8064	5024532.747	day care	16247 Harding Rd., south of Bakers Ferry Rd. on the west side of Harding Rd.
190	545307.473	5024542.535	High Pass Farm	16380 Harding Rd., south of Bakers Ferry Rd. on the east side of Harding Rd.
191	545824.1042	5021297.75	Eaden Road	SE of Harding Rd., off Springwater Rd.
192	547729.5181	5022112.372	Palmer Road	off Eaden Rd.
193	546274.7707	5020418.04	Springwater Road	from Harding Rd. to McIver Park
194	546111.4312	5023843.138	Bristlin Road	off Eaden Rd.

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PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
195	546198.4559	5024615.525	S. Claus Court	off Eaden Rd.
196	546120.1069	5024834.746	Metro Green Spaces	off Eaden Rd.
197	546016.9539	5025007.788	The Cedars	retreat center off Eaden Rd.
198	547035.1657	5022208.488	S. Rory Court	off Eaden Rd.
199	547537.6822	5018578.527	Feldheimer Road	off Springwater Rd., SE of Spring Creek Rd.
200	542714.5544	5025095.749	S. Bakers Ferry Road	from Springwater Rd. to Gerber Rd.
201	542773.491	5024654.01	Priscilla Lane	off Bakers Ferry Rd.
202	543397.8072	5025142.867	S. Foster Lane	north side of Bakers Ferry Rd.
203	543498.5862	5025256.606	Tranquility Lane	SE of Foster Creek Ln., off Bakers Ferry Rd.
204	543361.3136	5025050.298	Foster Creek Lane	south side of Bakers Ferry Rd.
205	545028.8991	5024899.21	S. Bakers Ferry Road	from Gerber Rd. to Barton
206	544394.3336	5024964.54	S. Rosemary Court	off Bakers Ferry Rd.
207	544754.0007	5024936.525	Timber Creek Lane	off Bakers Ferry Rd.
208	545520.5359	5025031.617	Latourette Road	NE of Chenowith Rd., off Bakers Ferry Rd.
209	546347.0337	5025468.443	Barton Park	off Bakers Ferry Rd.
210	547852.8561	5025393.506	Stoneybrook Stables	located on the northwest side of Hwy. 224, near Moore Ln.
211	546433.9497	5026164.613	Haynes Wrecking Co.	25027 SE Hwy. 224, located on north side of Hwy. 224 in Barton
212	552408.3589	5012056.833	S. Bard Road	off Day Hill Rd.
213	552772.9024	5012228.648	rural residential	SE Day Lane Rd., north of Bard Rd.
214	554653.1041	5009397.072	rural residential	Kinzy Faire Ln.
215	555732.4758	5008795.09	salvage yard	27247 S. Kinzy Rd.
216	555169.5246	5008491.597	S. Skinner Road	south of Kinzy Rd.
217	555456.5446	5008228.143	S. Habelt Road	south of Skinner Rd.
218	553885.2729	5009631.786	Tucker Road	SW of Branch Tucker D.L.C. Airport
219	552994.0578	5010023.08	S. Century Road	east of Estacada Hwy. 161
220	552339.0796	5016073.281	City of Estacada	east of Hwy. 224
221	552169.8918	5015644.664	Grace House	380 NW 6th Ave.
222	551650.0015	5015857.085	Estacada Lumber	east of Hwy. 224, northwest corner of the outskirts of Estacaca
223	551874.5875	5016069.428	Ericksen Self Storage & U-Haul	west of Eagle Creek Rd., at the west end of 10th Street
224	551862.0334	5016559.244	S. Eagle Creek Road	east of Hwy. 211
225	551569.3195	5015813.766	Industrial area of Estacada	N.W. Industrial Way & Evergreen Road
226	551376.6676	5016819.058	rural residential	SE Rivermill Rd.
227	550779.7997	5016528.559	Estacada Rock Products	SE Rivermill Rd.

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PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
228	551049.2727	5016698.682	Estacada Pre Mix	River Mill Dam Rd.
229	550503.7958	5017079.816	rural residential	Farmstead Rd.
230	551233.9135	5017210.079	Estacada Mini Storage	near River Mill Dam Rd.
231	550779.6381	5018884.427	rural residential	SE Heiple Rd.
232	550048.8995	5018226.758	Eagle Creek Sky Diving, Beaver Oaks Airport	SE Heiple Rd.
233	548423.0127	5018199.256	Paradise Community Club	at end of Heiple Rd.
234	548436.3105	5018392.326	residential	SE Starr Rd.
235	548631.4906	5017951.697	Twin Island Community	SE Woods Rd. & SE Island Rd.
236	549178.1407	5019245.431	rural residential	SE Samuels Rd.
237	548974.8844	5019929.993	rural residential	SE Dowty Rd.
238	549039.039	5020602.923	Eagle Creek Golf Course	25805 SE Dowty Rd.
239	550755.077	5020095.138	rural residential	SE Talons Rd.
240	549594.5446	5019694.716	rural residential	SE Folsom Rd.
241	550179.5452	5019745.239	Old Farm House Nursery	Hereford Rd.
242	550038.5896	5022647.017	rural residential	Burnett Rd.
243	550100.6565	5022531.552	Barlow Trail Dairy	SE Timm Lane
244	551090.8666	5019134.478	Hwy. 224	from Hwy. 211 to Barton
245	549382.9986	5023408.874	rural residential	Glover Rd. SE
246	549197.6199	5023937.589	Rainbow Greenhouse	28437 Hwy. 224
247	549245.3384	5024290.838	rural residential	SE Dale Lane, northeast of Hwy. 224
248	549548.0452	5024410.762	Kingdom Farm Saddle Breeds	28544 SE Dale Lane
249	548773.2045	5024178.532	rural residential	SE Shuttle Rd.
250	548637.5891	5024565.494	Douglas Ridge Gun Club	Hwy. 224
251	548469.6672	5024723.139	Don Sickmann Metal Fab Inc.	272625 Hwy. 224
252	548089.9122	5024789.86	rural residential	SE Odell Rd.
253	548521.2989	5025167.654	rural residential	Bartlemay Rd. SE
254	548118.5399	5025129.415	R.A. Shoppert Logging	Hwy. 224
255	548024.687	5025217.69	small sub-division	26595 Stoneybrook Lane,4/10 of a mile northwest of Bartlemay Rd.
256	547858.4391	5025699.127	rural residential	S. Moore Lane
257	547408.4978	5025608.841	Barton Feed	25621 Hwy. 224
258	547307.128	5025803.275	ELTE Equipment Sales	25701 Hwy. 224, just southeast of Amisigger Rd.
259	547212.6595	5025762.279	Barton Community Baptist Church	off Hwy. 224
260	546377.0987	5026189.394	Barton Store & Shell Gas Station	24831 Hwy. 224 SE
261	545871.4215	5026256.835	salvage yard	25040 Hwy. 224 SE
262	545656.0924	5026409.677	machine shop	24424 Hwy. 224 SE
263	545833.2068	5026459.603	rural residential	Barton to Carver

Notes:
(1) Universal Transverse Mercator (UTM) Zone 10, NAD27 projection X- and Y-coordinates. These are used to correlate to Figure 4. Spatial coordinates for Reference numbers 929-1127 are not available.

TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
264	543162.1106	5025612.729	Deep Creek Sand & Gravel	unknown street east of Deep Creek
265	543019.2806	5025697.677	rural residence	22015 S Hwy. 224
266	542859.4062	5025711.991	Gear Heads Auto Repair	21730 S Hwy. 224
267	542310.4831	5025937.546	rural residential	SE 197th Ave.
268	541935.0744	5025702.921	rural residential	Semple Rd. SE
269	542157.396	5025939.264	county property	west of 197th, on Hwy. 224 SE
270	542275.85	5026242.544	River Rock Nursery	19350 SE Hwy. 224
271	541559.8205	5026928.168	rural residence	18600 SE Hwy. 224, located 4/10 of a mile southeast of Tong Rd.
272	540216.5658	5026861.476	rural residential	Eilers Circle SE
273	551677.6997	5009702.331	truck shop	south of Holman Rd.
274	551673.4405	5009841.52	woodsy pasture with pond	south of Holman Rd.
275	551241.8478	5009828.314	partial harvest in process	south of Holman Rd.
276	550937.5858	5009798.579	harvest area	south of Holman Rd.
277	551481.5858	5009446.043	Christmas trees, young	Metzler Rd., south of Holman Rd.
278	551648.3301	5009297.193	oats, cover crop	Metzler Rd., south of Holman Rd.
279	550920.4983	5009400.524	cemetery	Metzler Rd., south of Holman Rd.
280	550307.482	5008949.788	pasture	Metzler Rd.
281	550536.4732	5009207.69	unmanaged Christmas trees	Metzler Rd.
282	549943.9331	5008994.454	truck shop	Metzler Rd.
283	549966.0414	5008730.211	Managed Forest Lands	Metzler Rd.
284	549351.0043	5008335.508	Metzler Park	Metzler Rd.
285	551501.1328	5008637.857	Former Christmas Tree Farm	Warnock Rd.
286	551249.9082	5008658.218	nursery	Warnock Rd.
287	552189.7752	5009815.249	abandoned Christmas trees	Springwater Rd.
288	552936.8414	5009531.73	abandoned Christmas trees	Springwater Rd.
289	552566.094	5009353.323	blueberries	Springwater Rd.
290	552642.781	5009118.796	Christmas trees	Springwater Rd.
291	552726.5859	5008661.636	recent clear-cut	Hwy. 211
292	552490.826	5008166.65	unmanaged forest lands	Hwy. 211
293	551014.9948	5008135.517	new highway cut	Hwy. 211
294	549532.8211	5007444.792	recent clearcut area	Highland Rd.
295	548985.0896	5008357.849	new Christmas trees - steep	Highland Rd.
296	550362.4907	5007141.841	old clearcut area	Shibley Rd.
297	550328.3878	5007359.685	pasture area	Shibley Rd.
298	552022.4728	5004731.498	auto/farm shop	located on Elwood Rd., between Shibley Rd. & Bittner Mill Rd.
299	551059.7173	5005358.408	large horse barn & Christmas trees farm	Elwood Rd.
300	550379.3744	5005693.062	forest and rural residential area	upper Elwood Rd.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
301	551926.4248	5007422.294	confined pasture	Morgan Rd.
302	553160.7511	5007295.744	overgrazed pasture	Morgan Rd.
303	553052.0321	5007730.194	overgrazed pasture	Morgan Rd.
304	553627.2424	5007692.921	overgrazed pasture	Hillockburn Rd.
305	553716.2781	5007463.343	small scale meat processing business	Hillockburn Rd.
306	553889.5604	5007618.941	truck repair shop	Hillockburn Rd.
307	553680.2444	5006409.257	clearcut area - < 10 yrs	Hillockburn Rd.
308	555454.8464	5007407.105	pasture	located on the west side of Habelt Rd., just north of Hillockburn Rd.
309	555359.1159	5007855.367	small sawmill	located on the west side of Habelt Rd., south of Skinner Rd.
310	555773.3791	5007717.751	fill	located on east side of Habelt Rd.
311	555635.9265	5009080.835	clearcut area - < 10 yrs old	located on the east side of Kinzy Rd., north of Skinner Rd.
312	553872.2558	5009519.201	auto junk yard - old	located on the west side of Kinzy Rd., south of Tucker Rd.
313	553393.2308	5009531.673	land clearing	located on the west side of Kinzy Rd., south of Tucker Rd.
314	554748.5741	5008588.767	unknown operations - industrial/agricultural processing - small scale	Skinner Rd.
315	554153.2471	5009193.677	Christmas trees	Skinner Rd.
316	552809.1177	5010397.881	logging equipment homebase	Century Rd.
317	552835.9066	5010538.63	nursery	Century Rd.
318	551506.7117	5011245.155	logging equipment homebase	Windy Hill Rd.
319	549201.2751	5014365.201	feed store, equipment and fertilizer	Springwater Rd.
320	547211.6288	5016312.068	cemetery	Jubb Rd.
321	547618.1966	5014721.608	nursery	Clear Creek Rd.
322	545774.6885	5016984.196	transmission line easement	Stormer Rd.
323	546830.1002	5017592.341	container nursery with pond	Stormer Rd.
324	546222.249	5019145.533	nursery	Spring Creek Rd.
325	544856.643	5020535.611	channeled ditch - new pond	Mattoon Rd.
326	545156.2126	5019393.073	rural residential	Mattoon Rd.
327	545469.2482	5018826.796	new pond	Mattoon Rd.
328	545536.133	5018673.371	confined livestock	Mattoon Rd.
329	545503.808	5018205.357	abandoned Christmas trees	Mattoon Rd.
330	545772.3264	5015536.705	Unmanaged Forest	Fellows Rd.
331	546310.9187	5014712.71	Christmas Trees	Fellows Rd.
332	546049.3925	5014113.302	clearcut area - < 10 yrs	Fellows Rd.
333	547790.6547	5013668.442	clearcut area - < 5 yrs	Fellows Rd.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM[(1)] X-Coordinate	UTM[(1)] Y-Coordinate	Potential Contaminant Source Name	Approximate Location
334	547233.4114	5012032.633	confined animals	Fellows Rd.
335	546866.9641	5011803.454	culvert	Forest Park Rd.
336	547082.8551	5008821.882	poultry barns - large	Schockley Rd.
337	546063.2273	5009584.538	Christmas trees	Lewellen Rd.
338	545985.2431	5010609.205	partial cut area - < 5 yrs	Upper Highland Rd.
339	543134.3378	5013703.75	recent clearcut area	Ridge Rd.
340	543931.3964	5015303.585	paper mill sludge storage site	Ridge Rd.
341	544764.3767	5016805.135	new clearcut area	Redland Rd.
342	541766.0018	5019400.035	logging/truck maintenance shop	Redland Rd.
343	541028.2778	5020206.649	transmission line easement	Redland Rd.
344	540851.1711	5021113.322	horse barn	Fischer's Mill Rd.
345	541172.4076	5021454.814	residential area	off Fischer's Mill Rd., on north side
346	543716.0015	5020172.707	recent clearcut	Fischer's Mill Rd.
347	543894.377	5020311.075	Feedlot	Fischer's Mill Rd.
348	544730.6986	5019540.404	private fish hatchery	Sherwood Ave.
349	544570.306	5019900.397	clearcut area	Sherwood Ave.
350	543977.7047	5019749.662	stables	Ridge Rd.
351	544088.193	5020482.839	tractor repair and fertilizer storage	Fischer's Mill Rd.
352	544233.0749	5020619.878	muddy animal yard with pond	Fischer's Mill Rd.
353	543674.7166	5020984.157	municipal sludge application	off Strow Bridge - west
354	539558.1378	5025982.918	recent clearcut and residential area	Hattan Rd.
355	539462.3665	5025316.663	pipeline easement	Edgewood St.
356	539773.4516	5023816.92	raw land channel modification	Hattan Rd.
357	539935.604	5022312.616	horse boarding and pasture land	Hattan Rd.
358	544858.594	5021318.815	Indian Springs Trout Farm	Hattan Rd.
359	543777.0363	5023060.52	seasonal operation	Gerber Rd.
360	544107.3996	5023103.549	commercial nursery	Harris Rd.
361	544280.1694	5025049.145	auto junk	Baker's Ferry Rd.
362	540925.1556	5024664.844	cemetery	Springwater Rd.
363	541225.3559	5024607.57	auto/truck junk, building demolition junk	Springwater Rd.
364	537846.5771	5025548.925	recent clearcut area	Bradley Rd.
365	545995.0699	5022116.608	recent clearcut area - small	Eaden Rd.
366	546574.9699	5022134.352	ditched pasture area with little shade	Eaden Rd.
367	546677.0369	5023132.483	Earl D. Ostrander Substation	16885 Eaden Rd.
368	545371.7983	5024054.319	channel modification, no cover, agricultural	Harding Rd.
369	545347.2794	5022693.67	powerline row divide	Harding Rd.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
370	538354.1192	5028500.622	Morning Way Sunrise Village Mobile Home Park	152nd Ave. & Morning Way
371	538309.1196	5028427.001	M. Snyder's Landscape - Contractor	14763 Morning Way
372	538228.1949	5028471.47	office space	Morning Way
373	538540.9427	5028412.447	farm - grazing animals	located on the east side of 152nd Ave., just north of Hwy. 212
374	538417.9082	5028777.229	Ridgewood Mobile Home Park	152nd Ave. & Louise Lane
375	538462.5845	5029678.769	Oregon Trail Elementary School	13895 at 152nd Ave. & Oregon Trail Dr.
376	538651.1072	5030013.45	residential area - high density	between 142nd Dr. & 152nd Dr. to Sunnyside Rd.
377	538052.0602	5029984.461	Sunnyside Village Mall	147th Ave. & Sunnyside Rd. - south side
378	538189.8155	5030444.094	pump station	north of Sunnyside Rd. at 147th Ave.
379	538674.5329	5030433.616	grasslands	north of Sunnyside Rd. - grassy butte facing south, east of 162nd Ave.
380	539180.5038	5032090.307	Trohs Memorial Airport	Airport Rd. off Vradenburg & 162nd Ave.
381	539088.5013	5030254.537	Sunnyside Veterinary Clinic	159th Ave. & Sunnyside Rd.
382	539601.044	5030281.188	G.T.E. Service & Maintenance Shop	Sunnyside Rd. & Rock Creek
383	539529.0765	5031218.785	Pleasant Valley Golf course	162nd Ave. & Monner Rd.
384	539308.5792	5031331.535	rural residential - mixed	162nd Ave. & Monner Rd.
385	539470.6055	5028755.163	agricultural - pepper crop	162nd Ave. - east side - just north of Hwy. 224
386	539305.5262	5028710.485	dairy farm	located on the west side of 162nd Ave., north of Hwy. 212
387	539524.5568	5029353.373	rural residential	162nd Ave.
388	539748.8363	5030293.024	George's Garden - Nursery	165th Ave. & Sunnyside Rd.
389	540309.5522	5028744.852	agricultural - squash field	east of 172nd Ave., at Armstrong Rd.
390	540219.8493	5028727.476	Fisher Excavating	west of 172nd Ave., at Armstrong Rd.
391	540333.134	5029389.079	agricultural - farm and pepper crop	14292 172nd Ave. - east of 172nd Ave., at top of hill
392	539834.4967	5029854.55	Rock Creek Green	west of 172nd Ave., at bottom of hill
393	540200.4953	5030187.344	church	172nd Ave. & Sunnyside Rd.
394	540297.018	5030689.309	nursery - small, unnamed	12525 172nd Ave. - east of 172nd Ave., north of Sunnyside Rd.
395	540270.6033	5031433.207	Pleasant Valley Nursery	Troge Rd. at 172nd Ave.

Notes:
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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
396	540178.8939	5032428.116	llama farm	172nd Ave. & Hemrick Rd.
397	540255.7281	5032517.343	future church site	172nd Ave. & Hemrick Rd. - north
398	540253.5794	5033055.914	car repair business	east of 172nd Ave., before Wooded Heights Dr.
399	540800.3588	5029721.313	rural residential - mixed rural and medium density housing	Sunnyside Rd., east of 172nd Ave.
400	541909.7996	5029498.581	Damascas Veterinary Clinic	located on the south side of Sunnyside Rd., near Hwy. 212
401	542115.5595	5029389.344	U-Pull-It Car Lot	located on the south side of Sunnyside Rd., north of Hwy. 212
402	542381.965	5029310.616	Army Surplus	located on the north side of Sunnyside Rd. at Hwy. 212 intersection
403	542479.7507	5029302.939	Brundidge Construction Parking Lot	located on the west side of Foster Rd., just north of Hwy. 212
404	542319.5719	5029576.352	Damascus Water District	located off the west side of Foster Rd. on Damascus Lane, north of Hwy. 212
405	542356.6437	5029899.087	rural residential - mixed	east side of Foster Rd., just north of High Ridge Ct.
406	543063.8286	5031594.567	channelized creek	east of Wiese Rd., on Bohna Park Rd.
407	543086.9435	5031078.277	clearcut area	located on east side of Wiese Rd., south of Bohna Park Rd.
408	539249.7179	5028412.174	transportation corridors	Hwy. 212 & Hwy. 224
409	540500.4204	5030427.887	farm - heavy grazing	Vogel Rd., just east of 172nd Ave.
410	542445.0739	5031611.909	rural residential - mixed	located at the end of SE Delia St., just north of Rock Creek
411	542105.9184	5032534.014	Commercial Weddings & Events	Tillstrom Rd. - west, south of Borges Rd.
412	540583.9805	5033246.786	future urban area - Pleasant Valley	2 lots into Clackamas County, area located west of Foster Rd.
413	543116.4351	5029875.389	rural residential - mixed	located on the west side of Wiese Rd., just south of Dogwood Ln.
414	542756.9524	5029578.76	channelized creek with culvert in residential area	Alder Springs Ct., located on the west side of Weise Rd., north of Hwy. 212
415	542740.0697	5029303.587	Damascus Village	Damascus - Hwy. 212, east of Foster Rd.
416	543152.1258	5028708.962	rural residential - mixed	Royer Road & SE Barlow Court
417	544367.0392	5028944.889	rural residential area and housing development	located at 222nd Ave. & Regner Terr., just south of Peggy Ann Dr.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
418	544927.0599	5029193.397	rural residential	232nd Ave., north to south
419	544748.8873	5027683.88	residential area - mixed rural and low density	Weatherly Ln., located on the west side of 232nd Dr.
420	543803.8313	5027734.525	residential area - mixed rural and low density	Royer Rd., located south of Hwy. 212
421	541254.9494	5028702.743	residential area - mixed rural and low density	Hwy. 212 to Tong Rd.
422	541053.6131	5027900.049	residential area - mixed rural and low density	Tong Rd., located south of Hwy. 212
423	541958.926	5027842.998	Sunshine Valley Nursery	located on Richardson Creek at the end of Keller Rd. - off east side of Tong Rd.
424	541326.0807	5026925.591	Calcagno Farms	Richardson Creek & Hwy. 224, on south side of Hwy. between Tong and Marina Rd.
425	541851.5011	5027478.176	Stillmeadow Retreat Center	Marina Rd. off Hwy. 224
426	552451.3743	5021148.488	pasture land	Van Curren Rd., north of Wildcat Mountain Dr.
427	552353.2888	5021335.099	Dormon Kennels	east side of Van Currin Rd., south of Valentine Ln.
428	552247.5986	5021461.423	pasture land	both east and west sides of Van Currin Rd.
429	552315.5757	5021810.115	creek crossing	Goose Creek on Van Currin Rd., north of Valentine Ln.
430	552363.4645	5021908.827	pasture land and Christmas trees	east and west side of Van Currin Rd., north of Goose Creek
431	551854.5858	5021463.109	pasture land	Filbert Rd., west of Van Currin Rd.
432	551767.0601	5022061.586	residential - travel trailer	23930 Filbert Rd., north of Walnut Ave.
433	551832.0581	5022049.553	rural residential with shop	Filbert Rd., on south side of Goose Creek
434	551885.1671	5022425.833	rural residential area	east and west side of Filbert Rd., north of Goose Creek
435	551551.2754	5022766.793	oak woodlands	Filbert Rd., north of Suter Ave.
436	551446.4451	5022416.975	creek crossing and bridge	located at the end of Suter Ave.
437	551279.5795	5022878.583	pasture land	Filbert Rd., north of Suter Ave.
438	551092.7904	5023094.792	rural residential	south side of Jackknife Rd.
439	550526.253	5022869.544	gasoline station	Hwy. 211 & Hwy. 224
440	549843.1714	5023135.188	agricultural land	north side of Hwy. 224, east of Amistad Ln.
441	549412.4052	5023464.036	tool and die maker/metal fabrication	northwest corner of Glover Rd. & Hwy. 224
442	549305.7912	5023779.943	german shepherd kennel and nursery	located on the west side of Hwy. 224, south of Dale Ln.
443	549117.5715	5024032.994	nursery on creek - disturbed riparian area	Hwy. 224 at Goose Creek crossing

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
444	544315.048	5029388.663	foodcrops, berries	northeast corner of Hwy. 212 & 222nd Dr., at Wetzels Corner
445	544635.0138	5029273.167	rural residence with shop	south side of Hwy. 212, between 222nd & 232nd Dr.
446	545215.807	5029251.312	foodcrops, berries	south side of Hwy. 212, between 232nd Dr. & 248nd Ave.
447	545603.8225	5029283.001	above ground fuel tanks - old	south side of Hwy. 212, between 232nd Dr. & 242nd Ave.
448	546137.3194	5029312.437	Saint Paul Church	south side of Hwy. 212, between 242nd Ave. & Hollyview Ln.
449	546292.7678	5029402.854	rural residential with shop	north side of Hwy. 212, west of Bartel Rd.
450	546837.1945	5029274.415	nursery	north and south side of Hwy. 212, Bartel Rd. - 257th Ave.
451	546911.3373	5029441.601	Holly View Baptist Church	north side of Hwy. 212, west of 257th Ave.
452	547024.4232	5029412.14	large barn/stables	south side of Hwy. 212 at 257th Ave.
453	546994.7006	5029516.704	Green Acre Dog Kennel	north side of Hwy. 212, west of 257th Ave.
454	547799.4355	5029937.015	commercial construction storage facility	26180 SE Hwy. 212 - south side of Hwy.
455	548001.3164	5030233.4	Meier Dairy Farm	northwest side of Hwy. 212, near 272nd Dr.
456	548356.0808	5030494.836	Christmas trees	northeast side of Hwy. 212 & 272nd Dr.
457	548639.5286	5030496.807	Boring Industrial Park	27600 SE Hwy. 212 on Deep Creek - on south side of Hwy.
458	548852.9429	5031063.63	Boring Rural Area - Business & Community	Hwy. 212, from Richey Rd. to north of 282nd Ave.
459	549137.5933	5031026.315	Boring Fire Station and Post Office	located of the north side of Hwy. 212, east of 282nd Dr.
460	549954.0271	5031064.422	John Holmund Nursery - possible project	29281 SE Hwy. 212 - north side of Hwy., north of Lani Ln.
461	549654.8209	5030929.972	junkyard	south side of Hwy. 212, between Burt & Lani Ln.
462	549846.0858	5030935.829	stock nursery	south side of Hwy. 212, between Burt & Lani Ln.
463	551121.4079	5031060.541	Chambers Equipment, Sales, Storage, Repair/ U-Pull-It	north side of Hwy. 212, west of Hwy. 26
464	551575.8151	5031074.458	foodcrops - berries & pumpkins	northeast corner of Compton Rd. & 312th Dr., on east side of Hwy. 26
465	551533.0535	5030967.674	gasoline station, restaurant, model railroad	South east corner of Comton Rd. & 312th Dr.

Notes:
(1) Universal Transverse Mercator (UTM) Zone 10, NAD27 projection X- and Y-coordinates. These are used to correlate to Figure 4. Spatial coordinates for Reference numbers 929-1127 are not available.

TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
466	551420.4087	5031201.692	poultry slaughter house	on west side of 312th Dr., just north of Compton Rd., northeast of Hwy. 26
467	551521.142	5031356.586	baseball field and parking lot	SE 312th Dr., north of Hwy. 212
468	551410.9224	5031511.421	business	SE 312th Dr., south of Dolan Creek
469	551407.294	5031629.891	stable	11681 SE 312th Dr.
470	551396.5358	5032190.155	businesses - including Chester Drawers	south of, and including, 11131 SE Orient Dr., south of Joette Dr.
471	551354.02	5032294.326	rural residence with shop	located on north side of Joette Rd.
472	551185.1825	5032203.191	rural residence with shop	30465 SE Joette Rd.
473	551129.2567	5032307.256	abandoned cars - pasture land	30330 SE Joette Rd.
474	550997.6863	5032303.227	green house	31050 SE Joette Rd.
475	551516.5082	5032582.8	stock nursery	located on east side of intersection, Haley Rd. & Orient Dr.
476	551391.1378	5032585.361	stock nursery and Christmas trees	30564 SE Haley Rd.
477	551434.9064	5032659.253	rural residence with shop and farm	30205 SE Haley Rd.
478	550597.0655	5032673.221	rural residential - old farm worker housing	at corner of Cindy Ln. & Haley Rd.
479	550578.9234	5032837.581	rural residential with shop - large housing development	10230 Cindy Ln.
480	550600.8991	5032548.051	nursery	south side of Haley Rd., west of Cindy Ln.
481	550794.7253	5032679.275	tree nursery	north side of Haley Rd.
482	550199.9857	5032509.558	green house	west side of McCreary Ln.
483	550317.4525	5032546.077	nursery - possible project	10702 McCreary Ln. - on east side of road
484	550836.5187	5031493.83	Highway 26	runs through protection area
485	550097.1703	5032631.697	pasture land	north side of Haley Rd., east of Berry Good Fruit Stand
486	552747.4337	5030932.317	nursery	south side of Compton Rd., east of Hwy. 26
487	552801.472	5031098.889	nursery and pasture land	south side of Compton Rd., east of Hwy. 26
488	552320.2059	5031314.91	Pond	11965 SE Revenue Rd.
489	552323.6097	5031631.74	nursery and berries	12072 SE Revenue Rd.
490	552328.8813	5032106.532	pasture land - cattle	north side of Revenue Rd., south of Chin St.
491	552366.6157	5031949.477	nursery	south side of Revenue Rd., south of Chin St.
492	552618.5795	5031904.458	nursery	32695 SE Brooks Rd.
493	552754.6997	5031769.927	unknown business operation	22800 SE Brooks Rd.

Notes:
(1) Universal Transverse Mercator (UTM) Zone 10, NAD27 projection X- and Y-coordinates. These are used to correlate to Figure 4. Spatial coordinates for Reference numbers 929-1127 are not available.

TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
494	553199.4735	5031889.33	automotive shop	33333 SE Brooks Rd.
495	553348.5815	5031748.795	Overton's Nursery	33426 SE Brooks Rd.
496	553865.2442	5031889.91	green houses	34020 SE Brooks Rd.
497	553961.3614	5031767.567	Commercial ornamental grasses	34045 SE Brooks Rd.
498	554185.215	5031774.424	nursery	34175 SE Brooks Rd.
499	554758.6077	5031785.285	nursery	11223 SE Brooks Rd.
500	554756.6535	5031640.122	foodcrops - berries	352nd Ave., south of Brooks Rd., north of Riggs Acres
501	554690.3657	5030569.938	Northwest Shade Trees	Dunn Rd. at 352nd Ave.
502	554574.9384	5031113.587	nursery	34591 SE Compton Rd.
503	554150.3516	5030981.998	nursery	SE Compton Rd.
504	552730.8158	5030608.985	nursery	west side of Orient Rd., south of Compton Rd.
505	552805.767	5030749.677	nursery	east side of Orient Rd., south of Compton Rd.
506	552832.4297	5030526.133	mobile home park	13025 SE Orient Rd.
507	552973.9293	5030424.993	High Forest Farm and Schmidt & Sons	13355 SE Orient Rd.
508	553076.8828	5030507.404	Gas Station	across from 13355 SE Orient Rd.
509	553167.0905	5030786.96	rural residential	off east side of Orient Dr. on Bobby Bruce Ln.
510	553217.8156	5030643.716	Living World Fellowship	south of 13047 Bobby Bruce Ln.
511	553155.0223	5030325.066	nursery	located on the southeast side of Orient Dr., across from Bobby Bruce Ln.
512	553789.6953	5029619.295	private railroad	340th Ct., north of Kelso Rd.
513	553684.777	5029392.024	large storage building	33930 SE Kelso Rd.
514	553365.3116	5029481.007	small dump trucking operation	northeast corner of Kelso Rd. at Hwy. 26
515	553467.5229	5029378.663	Geren's Feed & Farm Supply	southeast corner of Kelso Rd. & Hwy. 26
516	553095.4672	5029472.742	Guide Dogs for the Blind	Kelso Rd., west of Hwy. 26
517	552799.848	5029002.161	nursery/golf course	west side of 329th Ave.
518	552960.949	5028908.022	Camelot Farms	15909 SE 329th Ave. - 329th Ave. south of Kelso Rd.
519	552361.7825	5029529.529	nursery	east and west side of 322nd Ave., north of Kelso Rd.
520	552276.9335	5030139.96	Reynolds Excavating	located at the end of 322nd Ave.
521	552352.8808	5029173.204	agricultural area/nurseries	322nd Ave., south of Kelso Rd. on east and west side of street
522	552221.8158	5029142.669	abandoned cars	across from 15800 SE 322nd Ave.
523	550218.8469	5029305.389	Don Schmidt Nursery	Kelso Rd., east of Tickle Creek Rd.

Notes:
(1) Universal Transverse Mercator (UTM) Zone 10, NAD27 projection X- and Y-coordinates. These are used to correlate to Figure 4. Spatial coordinates for Reference numbers 929-1127 are not available.

TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
524	548860.9999	5029297.043	Leipolds Berries	south side of Kelso Rd., from Amsigger Rd. to 287th Ave.
525	548328.604	5029669.717	Mt.View Golf Course - possible partnering	north side of Kelso Rd., west of Richey Rd.
526	547776.4381	5029184.584	Greenleaf Golf Course	south side of Kelso Rd., west of Amsigger and east of 262nd Ave.
527	551393.4327	5029275.512	stable - possible project	312th Ave., south of Kelso Rd.
528	551385.9792	5029090.856	nursery	east and west side of 312th Ave.
529	551529.7896	5029352.239	kennel	14605 SE 312th Ave. at Kelso Rd.
530	550943.5037	5029334.285	Islie Nursery	Kelso Rd., west of 312th Ave., on south side of street
531	550893.9831	5029438.243	dairy farm	Kelso Rd., west of 312th Ave., on north side of Kelso Rd.
532	550508.9875	5029307.872	cattle/pasture land	29640 Kelso Rd., on south side
533	549713.8047	5029441.735	Bithel Farms	northeast corner of Frank Ave. & Kelso Rd.
534	549720.3905	5029863.832	equipment repair shop	14360 SE Frank Ave.
535	549611.3748	5029979.38	dumpsite - miscellaneous	13865 SE Frank Ave.
536	550292.8085	5030125.534	pond, stream crossing - possible project	29592 SE Church Rd., on south side of Church Rd., east of Frank Ave.
537	550994.1446	5030258.885	nursery	30500 SE Church Rd.
538	551403.1701	5030251.597	Stockman Nursery Sales - possible project	northwest corner of Church Rd. & 312th Ave., on west side of 312th Ave.
539	551535.046	5030255.635	cattle - possible project	312th Ave., north of Church Rd., on east side of 312th Ave.
540	551416.1424	5030694.008	farm - possible project	on west side of 312th Ave., south of Hwy. 26
541	551528.1991	5030051.184	Steven's Machine Welding	13697 SE 312th Ave., south of Church Rd.
542	551421.8128	5030080.849	farm buildings	south of Church Rd., across the street from 13697 SE 312th Ave.
543	551590.7347	5029512.317	poultry or rabbit farm/nursery	31265 SE 312th Ave.
544	550350.5178	5029316.128	dairy farm	west of 29640 SE Kelso Rd.
545	549671.7447	5029302.051	berry farm	south side of Kelso Rd. at Frank Ave.
546	549538.3126	5029139.755	nursery	west side of 287th Ave.
547	548755.0104	5029741.909	Leipolds Farms	Richey Rd., south of Sylvan Way
548	548494.6138	5030281.424	Wastewater Treatment Plant	on west side of Richey Rd., south of Hwy. 212 on Deep Creek
549	548815.9472	5029902.29	residential area	Sylvan Way, east of Richey Rd.

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(1) Universal Transverse Mercator (UTM) Zone 10, NAD27 projection X- and Y-coordinates. These are used to correlate to Figure 4. Spatial coordinates for Reference numbers 929-1127 are not available.

TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
550	549158.5233	5030123.726	Eastmont Bible Church	13400 SE Church Rd., east of 282nd Ln., on the south side of Church Rd.
551	549135.8048	5030228.503	rural residence & shop	27995 SE Church Rd., west of 285th Ave. on north side
552	549323.0958	5030135.166	rural residence & shop	28500 SE Church Rd., west of Frank Ave., on south side
553	549485.0386	5030232.49	Hammond's Century 21 Development	on north side of Church Rd., east of 285th Ave.
554	549315.6263	5030379.111	abandoned vehicles	13250 SE 285th Ave., on east side of street
555	549103.8621	5030405.55	Vanport Lumber	285th Ave. and Spring Rd.
556	548833.963	5030608.233	Boring Bark and Topsoil - possible project	Richey Rd., south of Hwy. 212
557	548635.0831	5030811.262	rural residential	Boring, Fireman Way, Wally Road, School Avenue'Dee Street, and 257th Avenue
558	548219.2203	5030613.8	stable	11691 SE 272nd Ave.
559	548340.754	5031164.7	business/commercial buildings	located across from 11461 SE 272nd Ave. - on east side of road
560	548191.9932	5031503.086	Maler Nursery	11330 SE 272nd Ave.
561	548304.4726	5031493.422	abandoned poultry farm	located across from 11330 SE 272nd Ave.
562	548247.741	5032051.971	creek crossing/wetland area	Haley Rd., east of 272nd Ave.
563	548420.1585	5032235.273	pasture land - cattle	located on the north side of Haley Rd.
564	548769.1846	5032245.96	green houses	located on north side of Haley Rd., across from 27293 SE Haley Rd.
565	548667.4342	5032124.264	R.V. repair shop	27797 SE Haley Rd., on south side of Haley Rd.
566	548993.742	5032239.728	bird farm	northwest corner of Haley Rd. & 282nd Ave.
567	549105.8202	5032243.159	stable	north side of Haley Rd., east of 282nd Ave.
568	549243.8855	5032254.093	rural residential	north and south side of Haley Rd., east of 282nd Ave.
569	549478.476	5032129.283	Good Shepherd Church	located on the south side of Haley Rd., east of 282nd Ave.
570	549842.4586	5032298.638	commercial nursery	northwest corner of Haley Rd. & Hwy. 26
571	549968.8455	5032262.88	business	southwest corner of Haley Rd. & Hwy. 26
572	550139.2555	5032083.673	stable/equestrian center	Hwy. 26, approximately 1/4 - 1/2 mile south of Haley Rd. on west side of Hwy.

Notes:
(1) Universal Transverse Mercator (UTM) Zone 10, NAD27 projection X- and Y-coordinates. These are used to correlate to Figure 4. Spatial coordinates for Reference numbers 929-1127 are not available.

TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
573	550574.9393	5031852.841	rural residential	located on the east side of Hwy. 26, south of Haley Rd.
574	552594.9401	5030048.798	nursery	located on east side of Hwy. 26, south of Compton Rd.
575	553154.447	5029657.147	commercial nursery	located on the east side of Hwy. 26, north of Kelso Rd.
576	553169.9197	5029361.012	foodcrops - berries	southwest corner of Kelso Rd. & Hwy. 26
577	553826.7385	5029236.027	mobile home park	located on the east side of Hwy. 26, south of Kelso Rd.
578	554259.3105	5028669.167	Oregon Forest Service Fleet Center	located on the west side of Hwy. 26, north of Jarl Rd.
579	554361.933	5028553.422	Church of the Nazarene	located on the northwest corner of Hwy. 26 & Jarl Rd.
580	554951.207	5028255.048	Sobella Farms Nursery	east and west sides of Hwy. 26, south of Jarl Rd.
581	555129.3397	5028042.849	U.S. Forest Service Building Visitor Center	located on the southwest side of Hwy. 26, northwest of 362nd Dr.
582	555537.7254	5027837.702	wood product manufacturing industrial site	located at the southeast corner of 362nd Dr. & Hwy. 26
583	555310.5922	5027718.867	industrial site	located on the south side of Industrial Way, west of 362nd Dr.
584	555174.4788	5027853.096	industrial site - nursery	located on the south side of Industrial Way, at west end of street
585	555413.7132	5027576.921	Quality Tank	16911 SE 362nd Dr.
586	555738.4349	5027316.474	residential area	located on the east side of 362nd Dr., between Barnum Rd. & Skogan Rd.
587	555457.7698	5027004.558	rural residential	362nd Dr., south of Skogan Rd.
588	555424.0861	5026601.439	sheep ranch	located on the southwest side of 362nd Dr. at Colorado Rd.
589	555536.068	5026598.162	green houses	located on the east side of 362nd Dr., south of Colorado Rd.
590	555547.5717	5026222.643	nursery	15411 SE 362nd Dr.
591	555402.2559	5026020.349	tilled farmland	located on the west side of 362nd Dr.
592	555521.8976	5025767.03	pond	located on the east side of 362nd Dr., south of Gunderson Rd.
593	555302.2841	5025621.599	rural residential	located on the west side of 362nd Dr., south of Gunderson Rd.
594	555437.146	5025309.302	egg farm	located on the west side of 362nd Dr., north of the South Fork of Tickle Creek

Notes:
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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
595	555417.81	5025084.65	pasture land - cattle	located at the northwest corner of 362nd Dr. & Hwy. 211
596	555549.3842	5025088.68	pasture land	located at the northeast corner of 362nd Dr. & Hwy. 211
597	555553.2185	5024963.506	foodcrops - berries	located on the south side of Hwy. 211, east of 362nd Dr.
598	555743.988	5024975.751	nursery	located at the southwest corner of 367th Ave. & Hwy. 211, east of power lines
599	555974.6077	5024771.863	rural residence/foodcrops - berries	located on the east side of 367th Ave., south of Hwy. 211
600	555811.4492	5024714.127	nursery/foodcrops - berries	located on the west side of 367th Ave.
601	556214.5863	5024680.444	rural residence/machine shop/stable	37765 SE Trubel Rd.
602	556343.4035	5024565.501	pasture land	located on the south side of Trubel Rd., east of Oldenburg Lane
603	556444.1775	5024938.06	rural residential	north and south sides of Trubel Rd./Siebert Ln.
604	556957.2076	5024551.38	nursery	located on the south side of Trubel Rd, east of Siebert Ln.
605	557427.3844	5024697.782	rural residential/junk yard & automotive shop	19415 SE Bornstedt Rd., northwest corner of Trubel Rd. & Bornstedt Rd.
606	557578.6595	5024715.525	game processing facility/stables	located on the north side of Trubel Rd., east of Bornstedt Rd.
607	557614.7818	5024611.155	rural residential - farmland	located on the south side of Trubel Rd., east of Bornstedt Rd.
608	557839.2482	5024598.217	rural residential	located at the southwest corner of Trubel Rd. & Bogle Rd.
609	558168.7943	5024608.314	dirt bike repair shop	west of 39522 SE Trubel Rd., east of Bogle Rd.
610	558557.6235	5024613.825	stables	located on north and south sides of Trubel Rd., east of Bogle Rd.
611	558545.5441	5024580.227	fertilizer spreader in creek pasture - possible project	located on the south side of Trubel Rd., west of Langersand Rd.
612	558736.5105	5024586.078	rural residential area	located at the southeast corner of Langersand Rd. & Trubel Rd.
613	559085.5497	5024596.773	foodcrops - berries	located on the south side of Trubel Rd., east of Langersand Rd.
614	559134.6009	5024717.166	rural residence	located on the north side of Trubel Rd., east of Langersand Rd.

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(1) Universal Transverse Mercator (UTM) Zone 10, NAD27 projection X- and Y-coordinates. These are used to correlate to Figure 4. Spatial coordinates for Reference numbers 929-1127 are not available.

TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
615	559402.1958	5024600.073	pasture land	located on the south side of Trubel Rd., east of Langersand Rd.
616	559424.5532	5024726.05	farmland - cultivated crops	located across from 41206 SE Trubel Rd., on north side of road
617	560348.0106	5024714.718	rural residence - Christmas trees	located on the north side of Trubel Rd. at Firwood Rd.
618	559924.6261	5024543.528	clearcut area - possible project	located on the south side of Trubel Rd., west of Firwood Rd.
619	560752.6689	5024641.457	Firwood Elementary School	42900 Firwood School Rd.
620	560696.5429	5024751.921	stable	across from Firwood Elementary School
621	560902.4266	5024698.785	large shop buildings	located at the east end of Trubel Rd., east of Firwood Rd.
622	560630.2907	5024973.953	commercial site	located at the southeast corner of Hwy. 211 & Firwood Rd.
623	560503.0768	5024389.931	rural residential - fruit orchard	located on the west side of Firwood Rd., south of Trubel Rd.
624	560785.5173	5023778.526	pasture land	across from 42801 SE Music Camp Rd.
625	560977.1907	5023771.291	rural residential area	located on the south side of Music Camp Rd.
626	561204.8885	5023652.977	clearcut area - intermittent stream	located on the east side of Music Camp Rd.
627	561201.8189	5023534.296	pasture land	located on the east side of Music Camp Rd.
628	561201.0792	5023349.536	pasture land - Christmas trees	located on the south side of Music Camp Rd., after road curves east
629	561359.3584	5023347.679	rural residential area	located on the south side of Music Camp Rd., west of 442nd Ave.
630	561868.5262	5023515.099	foodcrops - berries	located on the north side of Music Camp Rd., east of 442nd Ave.
631	561851.9863	5022980.496	rural residence	located on the west side of 442nd Ave., south of Music Camp Rd.
632	561851.7451	5022769.533	rural residence	located on the west side of442nd Ave., south of Music Camp Rd.
633	561826.9251	5022505.077	unmanaged deciduous forest lands - creek	located on the west side of 442nd Ave., south of Music Camp Rd.
634	561847.4985	5022261.523	stable - barn	located on the east side of 442nd Ave., north of Pagh Rd.
635	562002.835	5021719.077	stable - arena	located on the east side of 442nd Ave., north of Pagh Rd.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
636	561841.736	5021812.912	Christmas trees	located at the northwest corner of Pagh Rd. & 442nd Ave.
637	562007.474	5021567.709	Christmas trees	located at the northwest and northeast corner of Pagh Rd. & 442nd Ave.
638	561907.3457	5021393.009	Blooming Hills Nursery	44174 SE Pagh Rd., on north side of road
639	561672.1335	5021537.617	nursery	located on the north side of Pagh Rd., west of 44174 SE Pagh Rd.
640	561590.2846	5021403.109	junk yard	located on the south side of Pagh Rd., west of 44174 SE Pagh Rd.
641	561039.5299	5021518.232	rural residential area - possible project	located on the north side of Pagh Rd.
642	561037.0757	5021379.45	pasture land, cattle - possible project	located on the south side of Pagh Rd.
643	560740.7237	5021370.369	rural residential, pond - possible project	located on the south side of Pagh Rd.
644	560380.1267	5021517.842	green houses - nursery	located west of 42280 SE Pagh Rd.
645	559815.642	5021434.394	Fire Department	24545 SE Firwood Rd.
646	559981.7886	5021175.79	pasture land - cattle	located on the east side of Firwood Rd., south of Pagh Rd.
647	559813.2395	5021084.963	nursery	located on the west side of Firwood Rd., south of Pagh Rd.
648	559811.9885	5020906.892	rural residential - pasture land	located on the east and west sides of Forwood Rd., south of Pagh Rd.
649	559851.3401	5020697.141	pasture land - horses	located on the west side of Firwood Rd.
650	559843.4634	5022028.789	nusery - junk yards	23737 SE Firwood Rd., on both sides of road
651	559977.9886	5022593.223	rural residential - unmanaged deciduous forest lands	north on Firwood Rd. - forest is east of Bornstedt Rd. Dead End with Firwood Rd.
652	559977.1517	5023048.336	farmland	located on the east side of Firwood Rd. at Algeier Rd.
653	559479.4786	5023580.289	pasture land	located on the west side of Firwood Rd., north of Corndog Rd.
654	559988.7078	5023536.752	foodcrops - rhubarb	located on the east side of Firwood Rd. at Corndog Rd.
655	560118.7149	5023810.831	rural residential area	located on north side of Firwood Rd., east of Music Camp Rdl
656	560240.4231	5023709.083	foodcrops - berries	located on the south side of Firwood Rd., east of Music Camp Rd.

Notes:
(1) Universal Transverse Mercator (UTM) Zone 10, NAD27 projection X- and Y-coordinates. These are used to correlate to Figure 4. Spatial coordinates for Reference numbers 929-1127 are not available.

TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
657	560517.8147	5023909.028	pond	located south of Tickle Creek on Firwood Rd., around 21385 Firwood Rd.
658	560672.7309	5023807.993	large pond	located on Firwood Rd. at 427th Ave.
659	560800.8717	5023924.104	llama farm	located on the east side of Firwood Rd., north of intersection with 427th Ave.
660	557417.3204	5024598.399	pasture land - cattle	located at southwest corner of Trubel Rd. & Bornstedt Rd.
661	557522.2915	5024615.028	pasture land	located at southeast corner of Trubel Rd. & Bornstedt Rd.
662	557412.2951	5024334.553	pasture land	located on west side of Bornstedt Rd., south of Trubel Rd.
663	557537.025	5024134.128	pasture land - horses	located on the east side of Bornstedt Rd., south of Trubel Rd.
664	557369.4469	5023792.749	junk yard	located on the south side of Boitano Rd., west of Bornstedt Rd.
665	556977.3891	5023892.617	stable - Christmas trees	located on the north side of Boitano Rd., west of Bornstedt Rd.
666	556894.6222	5023798.018	pasture land - Christmas trees	located on the south side of Boitano Rd.
667	556645.5163	5023968.417	pasture land	located on the north side of Boitano Rd., west of Poe Rd.
668	556675.3481	5023850.441	nursery	37780 SE Boitano Rd.
669	556484.9882	5023824.795	pond	located on the south side of Boitano Rd., west of 37780 Boitano Rd.
670	555939.2902	5023775.156	cattle ranch	located at west end of Boitano Rd., on south side
671	556560.8611	5023497.58	rural residential area	Cottontail Drive & Cottontail Lane
672	555140.5549	5025089.266	agricultural land	located on the north side of Hwy. 211, west of 362nd Dr.
673	555170.6815	5024971.604	precast cement business	35003 SE Hwy. 211
674	554264.327	5024633.818	agricultural land	located on the south side of Hwy. 211, west of Brinkley Rd.
675	553938.1093	5024525.058	Sandy Farms	located on the south side of Hwy. 211, west of Brinkley Rd.
676	553761.2573	5024486.414	Sandy Cemetery	located on the south side of Hwy. 211, west of Brinkley Rd.
677	553862.3356	5024839.165	Christmas trees	located on the north side of Hwy. 211, west of Brinkley Rd.
678	553324.3078	5024539.184	clearcut area - possible project	located on the south side of Hwy. 211 at Deep Creek

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
679	552768.3009	5024179.208	Collin's Retreat Center	located on the north side of Hwy. 211 on Deep Creek
680	552520.3759	5023664.051	pasture land - Christmas trees	located on the east side of Judd Rd., south of Hwy. 211
681	552352.941	5023526.927	rural residential area	located on the west side of Judd Rd., south of Hwy. 211
682	552678.807	5023438.135	cattle ranch	located on the north side of Howlett Rd., east of Judd Rd.
683	552675.3426	5023332.248	Christmas trees	located on the south side of Howlett Rd., between Judd Rd. & Smokey Ln.
684	553190.4649	5023315.098	foodcrops - berries	located on the east side of Howlette Rd., south of Shadow Rd.
685	553025.487	5023316.753	crops - hay	located on the west side of Howlette Rd., south of Shadow Rd.
686	553081.5682	5022988.628	egg farm	located on the west side of Howlett Rd., south of Shadow Rd.
687	553503.913	5022546.731	rural residential area	located on the east side of Howlett Rd. off Cat Track Rd.
688	553575.0506	5022383.987	oil tank - equipment	located on the east side of Howlette Rd. - 23300 area
689	552404.0602	5023798.889	Fire Station	located at the northwest corner of Judd Rd. & Hwy. 211
690	552411.3094	5023990.248	pasture land	located on the north side of Judd Rd., west of Hwy. 211
691	552180.9973	5024194.148	rural residential area	located on the north and south sides of Judd Rd.
692	551816.9885	5024453.399	unmanaged deciduous forest lands	located on the north side of Judd Rd. & Idlewine Rd.
693	551305.7441	5024563.037	rural residential area	north and south sides of Judd Rd., west of Norse Ave.
694	550221.4409	5025307.798	unmanaged deciduous forest lands	located on the north side of Judd Rd., west side of power lines
695	549814.3674	5025460.255	gravel pit	located on the south side of Judd Rd., on west side of power lines
696	549119.5564	5025979.773	rural residential area	Gerber Court, located on the north side of Judd Rd. - west side of power lines
697	548592.156	5025970.031	unmanaged forest lands - pond	located on the south side of Judd Rd., west of Gerber Court
698	547864.6072	5026264.49	pasture land	located on the north side of Judd Rd., west of Holst Rd.
699	547744.679	5026089.194	rural residential area	located on the south side of Judd Rd. at Amsigger Rd.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
700	547749.5065	5026359.735	rural residential area	north side of Judd Rd. at Amsigger Rd. - east side of Amsigger, north of Judd
701	548139.9829	5026958.504	drainage	east side of Amsigger Rd., north of Yewwood Dr.
702	548372.1275	5027770.08	foodcrops - berries	east side of Amsigger Rd., north of Yewwood Dr.
703	547200.3654	5027707.692	nursery	located on the west side of Amsigger Rd., north and south of Rebman Rd.
704	548361.4734	5028765.356	agricultural land - rural residential area	15535 SE Amsigger Rd.
705	547979.1807	5029413.016	rural residential area	268th Court, located off north side of Kelso Rd., west of Amsigger Rd.
706	547794.6156	5029407.366	Hood View Academy	26460 SE Kelso Rd., on north side of Kelso Rd.- west of 268th Ct.
707	547874.007	5029403.09	Hoodview Church	26775 Kelso Rd.
708	547510.7662	5029418.492	rural residential	located west of 26775 SE Kelso Rd.
709	547429.329	5028842.295	rural residential - ponds	located on the west side of 262nd Ave., south of Kelso Rd. - west of golf course
710	547541.4083	5028845.726	rural residential with shop	located on the east side of 262nd Ave., south of Kelso Rd. - west of golf course
711	544469.807	5030119.212	rural residential area	located on the north and south sides of Hoffmeister Rd., east of 222nd Dr.
712	544914.1142	5030413.257	Christmas trees	22850 SE Hoffmeister Rd.
713	545055.8608	5029815.85	jurisdictional wetlands	located on the south side of Hoffmeister Rd., east of Hoffmeister Court
714	545277.0929	5030127.456	pasture land	located on the north and south sides of Hoffmeister Rd.
715	545402.7581	5030065.458	wetlands	located on the south side of Hoffmeister Rd.
716	545497.1482	5030208.571	rural residential area	located on the north side of Hoffmeister Rd.
717	545542.6047	5030077.968	natural gas facility and agricultural land	located on the south side of Hoffmeister Rd.
718	544947.8622	5030117.38	Northwest Pipeline	located along Hoffmeister Rd., between 222nd Dr. & 242nd Ave.
719	545798.0789	5030077.557	pond - wetlands	located 300 feet west of 242nd Ave., on the south side of Hoffmeister Rd.

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
720	545879.3038	5030112.965	pump repair business - possible project	located at the southeast corner of 242nd Ave. & Hoffmeister Rd.
721	546016.3818	5030215.927	rural residential area	located on the north side of Hoffmeister Rd., east of 242nd Ave.
722	546086.6975	5030069.929	Christmas trees - pasture land	located on the south side of Hoffmeister Rd., east of 242nd Ave.
723	546255.6614	5030206.79	drainage, pasture land, cattle - possible project	located west of 24935 SE Hoffmeister Rd.
724	546292.8329	5030068.008	Misty Meadow Kennels	located across from 25529 SE Hoffmeister Rd. - on the south side of Hoffmeister
725	546711.8167	5030113.755	Christmas trees	located on the north and south sides of Hoffmeister Rd., west of 257th Ave.
726	548866.9742	5030525.719	bridge/concrete barrier - possible project	located on Richey Rd., south of 212th Ave. Deep Creek crossing
727	548797.6964	5030358.986	Boring Wastewater Treatment Plant	located on the west side of Richey Rd., 1/2 mile south of Hwy. 212
728	548653.8109	5029950.673	rural residential area	located on the west side of Richey Rd., from Church Rd. to Kelso Rd.
729	550006.6467	5028838.282	agricultural land	located on the west side of Tickle Creek Rd.
730	550170.8596	5028851.54	Islie Nursery	located on the east side of Tickle Creek Rd.
731	550365.7952	5028140.223	CRBC Tree Project	located on the east side of Tickle Creek Rd., on the north side of Deep Creek
732	550184.579	5028134.675	unmanaged forest lands	located on the west side of Tickle Creek Rd., north of Knox Rd.
733	550148.5932	5027697.043	nursery	located on the east side of Tickle Creek Rd., south of Deep Creek
734	550012.7408	5027832.805	pump house	29421 SE Knox Rd., on the south side of Knox Rd.
735	549843.2726	5027712.387	rural residential area	located on the south side of Know Rd.
736	549671.7995	5027657.448	unmanaged deciduous forest lands - rural residential area	located on the north and south sides of Knox Rd.
737	549480.44	5027445.518	ponds	located on the south side of Knox Rd.
738	549104.33	5027343.467	stable	located on the north side of Knox Rd.
739	548992.477	5027233.044	foodcrops - berries	located on the north side of Knox Rd. at creek crossing

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
740	548990.0531	5027043.359	pasture land - sheep - pond	located on the south side of Knox Rd., east of creek crossing
741	548646.9942	5027206.006	unmanaged deciduous forest lands	located on the north side of Knox Rd. and at the end of Knox Rd.
742	550003.1015	5027609.977	unmanaged deciduous forest lands	located on Tickle Creek Rd., south of Knox Rd. to Hillyard Dr.
743	550145.5094	5027260.113	foodcrops - berries	29600 SE Hillyard Dr., on the north side of street
744	550268.5117	5027016.349	stable	located on the south side of Hillyard Dr., to end of road
745	550527.5148	5026900.818	possible fish passage barrier - possible project	located north of 17650 SE Tickle Creek Rd.
746	550508.8969	5026702.407	rural residential area	located south of 17650 Tickle Creek Rd., on the east side of street
747	550308.8101	5026506.67	foodcrops - berries	located on the south side of Holst Rd., west of Tickle Creek Rd.
748	550181.3703	5026626.533	stable	located on the north side of Holst Rd., west of Tickle Creek at end of road
749	550684.1039	5026625.464	Moren Stable & Residence	17851 Tickle Creek Rd.
750	550980.5	5026642.77	foodcrops - berries & filbert orchard	located on the east side of Decker Rd., north of Tickle Creek
751	550856.3424	5026655.43	drainage/headwaters - possible project	located on the west side of Decker Rd., north of Tickle Creek
752	551075.2461	5026505.444	Rumsey Cattle Ranch	located on the south side of Tickle Creek Rd., east of Decker Rd.
753	551285.5703	5026635.649	stable - pasture land	located on the north side of Tickle Creek Rd., east of Decker Rd.
754	551425.8273	5026903.631	pasture land	located on the west side of Fosberg Rd.
755	551536.1085	5026527.786	pasture land - grass	located on the east side of Tickle Creek Rd., south of Fosberg Rd.
756	551406.8018	5026449.75	nursery	located on the west side of Tickle Creek Rd., south of Fosberg Rd.
757	551410.8399	5026317.878	farm machinery repair	18191 SE Tickle Creek Rd.
758	551491.6576	5026097.818	hay fields - nursery	located south of 18191 SE Tickle Creek Rd., on north side of power lines
759	551853.433	5025861.669	rural residential area - unmanaged forest lands	located on the south side of Tickle Creek Rd., south of the power lines

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
760	552030.5597	5025990.858	nursery	located on the north side of Tickle Creek Rd., south of power lines
761	552352.9912	5025695.584	farm	located on the east side of Tickle Creek Rd.
762	552327.4098	5025455.805	unmanaged forest lands	located on the west side of Tickle Creek Rd.
763	552587.1801	5025315.301	abandoned farm	located on the south side of Tickle Creek Rd.
764	552733.0735	5025130.461	unmanaged forest lands	located on the south side of Tickle Creek Rd.
765	553027.8579	5024652.958	Big Valley Mobile Home Park - possible project	located at the end of Leewood Lane
766	555280.9802	5025092.957	Pioneer School	36001 SE Hwy. 211
767	554928.5394	5025840.308	rural residential area	located off Gunderson Rd. & Volmer Way
768	555106.9252	5025928.385	pasture land - drainage - possible project	located north of Gunderson Rd. to Volmer Way
769	554551.9227	5025754.696	pasture land	located on the south side of Gunderson Rd.
770	554105.2374	5025806.861	machine shop - chrome wheel storage	located on the south side of Gunderson Rd., east of creek crossing
771	553929.9664	5025875.875	Haul Trucking Business	located on the north side of Gunderson Rd., west of creek crossing
772	553768.7301	5025755.401	foodcrops - berries and unmanaged forest lands	toward west end of Gunderson Rd., on south side of street
773	553611.4791	5025783.508	rural residence with shop	located at west end of Gunderson Rd., on south side of street
774	554383.7696	5026128.77	Vollmer Excavating	located on the east side of Volmer Way, at end of street - off Gunderson Rd.
775	555480.4109	5026384.896	creek crossing	located at 362nd Dr., south of Colorado Rd.
776	555429.4606	5026704.64	sheep ranch - pasture land	located at the northwest corner of 362nd Dr. & Colorado Rd.
777	555094.9691	5026587.394	horse ranch	located on the south side of Colorado Rd.
778	554943.1706	5026706.206	wetlands - possible project	located on the north side of Colorado Rd.
779	554466.1117	5026675.132	stream crossing - possible erosion control project	eastern most stream crossing on Colorado Rd., west of 362nd Dr.
780	553585.7528	5026623.476	rural residential area	located on the north and south sides of Colorado Rd.

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PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
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Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
781	553872.6145	5026673.415	creek crossing	located on the north side of Colorado Rd., west of 362nd Dr.
782	553505.6362	5026810.634	rural residential - nursery - stable	located on the north side of Colorado Rd., west of 362nd Dr.
783	553236.7325	5026711.86	rural residential area - possible culvert project	Moonbeam Drive
784	553095.9728	5026460.323	rural residential - unmanaged forest lands	Twilight Lane
785	552942.965	5027156.163	rural residential	located on the north side of Colorado Rd. around 329th Place
786	552745.553	5027141.886	logging site	located on the south side of Colorado Rd., west of 329th Place
787	552404.3121	5027782.576	passable culvert - unmanaged deciduous forest lands	located on gravel road off northwest end of Colorado Rd.
788	555719.8494	5026639.459	perched culvert - possible culvert project	located on gravel road off northeast end of Colorado Rd.
789	556428.6307	5025564.954	agricultural land - possible creek restoration project	located on the north side of Hwy. 211, between 362nd Dr. & Arletha Court
790	556894.9496	5025678.009	pasture land - transitional timber lands	Arletha Court, off south side of Hwy. 211 - west of Bornstedt Rd.
791	557142.6549	5025941.362	pasture land, foodcrops, gun club - possible project	located north of Hwy. 211, between Arletha Ct. & Bornstedt Rd.
792	557510.2402	5026043.163	Wonderland Mobile Home Park	located on the north side of Hwy. 211, east of Bornstedt Rd.
793	557482.3435	5025341.775	rural residential area, mini ranches - possible culvert project	north and south sides of Bornstedt Rd., Hwy. 211 to Trubel Rd.
794	557832.1773	5023605.116	nurseries - pasture land	east and south sides of Bornstedt Rd., east of Boitano Rd.
795	558511.251	5022694.611	abandoned winery	located at northeast end of Winery Rd., off Bornstedt Rd.
796	558021.0215	5022555.825	stable - clearcut area - pasture land	located at the southeast corner of Winery Rd. & Bornstedt Rd.
797	557299.9687	5022418.504	small airport	located at south end of Moxie Ln., west of Winery Rd. & Bumpy Ln.
798	557847.8175	5021751.207	agricultural land - rural residential area	located on the south side of Rude Rd., south of and off Bornstedt Rd.
799	559481.844	5022229.579	rural residential area	Bornstedt Rd., west of Firwood Rd.
800	559673.3049	5022169.598	machine shop/foodcrops - blueberries	located at southwest corner of Bornstedt Rd. & Firwood Rd.

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PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
801	559946.749	5022120.36	pond - possible project	located on Firwood Rd., south of Bornstedt Rd. creek crossing
802	559986.7076	5021890.813	rural residential area	located off Firwood Rd., south of Bornstedt Rd., on Dover Court
803	560048.1019	5022304.85	foodcrops - raspberries	located on the east side of Firwood Rd., north of Dover Court
804	559892.6611	5022811.014	rural residential	located on the east and west side of Firwood Rd., between Bornstedt & Trubel Rd.
805	558622.0825	5024997.467	pond on creek-no passage-possible project - rural residential area	located on the west side of Langersand Rd., north of Trubel Rd.
806	558498.392	5026815.431	urban and high density residential area	area along the east side of Langersand Rd., south of Hwy 26
807	557993.7817	5026837.769	Meinig Memorial Park - possible parking lot/creek project	located east of Meinig Ave. & Hwy. 211
808	553014.7559	5023627.366	rural residential - pasture land - horses - pond	located at the end of Smokey Lane, on the north side
809	553272.7652	5023544.423	rural residential area - foodcrops - pasture land	located on Shadow Rd., north of Howlett Rd.
810	553387.1218	5022229.163	rural residential area	Land Rd. off Howlett Rd., and Shadow View Ln. off Land Rd.
811	554086.8122	5021451.281	pasture land, cattle - possible project	located on Woodle Rd., off Howlett Rd., project site on north side of road
812	554598.8399	5021425.806	filbert orchard	located on the west side of Crane Rd., north of Woodle Rd.
813	554810.4364	5021514.594	Christmas trees	located on the east side of Crane Rd., north of Woodle Rd.
814	554944.744	5022235.707	rural residential area - possible culvert project	Gold Rd., off Crane Rd.
815	555168.4959	5022465.098	rural residential area	Bronze Rd., off Gold Rd.
816	554144.7334	5021172.595	rural residential area - pasture land	located on the north side of Wildcat Mountain Drive
817	553513.02	5020895.351	unmanaged deciduous forest lands	located on the south side of Wildcat Mountain Drive
818	553170.508	5021049.786	rural residential - possible project	located on the north side of Wildcat Mountain Dr., east of Brevi Lane
819	552890.6057	5021041.216	rural residential area	located on Brevi Ln., north of Wildcat Mountain Drive
820	549119.9709	5024123.91	pasture land - horses	located on Dale Ln., north of Hwy. 224
821	548831.0482	5024380.279	shooting range	located on the north side of Hwy. 224, across Hwy. from Paul Bunyan Ln.

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PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
822	548118.6047	5025037.66	rural residential area - agricultural land - miscellaneous businesses	Hwy. 224, between BPA power lines & Amsigger Rd.
823	548273.601	5024923.821	Eagle Iron Works	located on the north side of Hwy. 224, southeast of Bartlemay Rd.
824	547334.0236	5025890.673	pasture land - cattle in stream - possible project	east and west side of Amsigger Rd., north of Little Creek
825	548362.5731	5026548.601	rural residential area	north side of Holst Rd., off Judd Rd.
826	547294.0637	5026548.819	rural residential area - businesses	Yewwood Drive, on west side of Amsigger Rd.
827	545883.2701	5026756.219	Trestle Glen Camp	located at the end of Yewwood Dr., north of Hwy. 224 & Bakers Ferry Rd.
828	547243.4615	5025841.566	Elte Construction Equipment	located at the northwest corner of Amsigger Rd. & Hwy. 224
829	546999.9049	5025821.003	Barton School	located on the south side of Hwy. 224, east of Bakers Ferry Rd.
830	546364.5425	5026111.581	gasoline station	located on the south side of Hwy. 224, east of Bakers Ferry Rd.
831	546284.0022	5025944.198	ceramics business - construction equipment	located on the west side of Bakers Ferry Rd., south of Hwy. 224
832	546101.1388	5026321.175	pasture land	located on the north side of Hwy. 224, west of Bakers Ferry Rd.
833	545296.5898	5026322.771	gravel pit	located on the south side of Hwy. 224, west of Bakers Ferry Rd.
834	545095.7411	5027068.357	tractor repair - pond	located on north side of Royer Rd. off 232nd Dr., north of Hwy. 224
835	545222.3258	5027454.497	rural residential area	232nd Dr., south of Deep Creek School
836	545101.2773	5027754.106	Deep Creek School	located on the east side of 232nd Dr., south of Ondo Rivera Dr.
837	545123.3214	5028757.085	nursery	located on the east side of 232nd Dr., south of Blue Ridge Dr.
838	545252.8792	5028826.895	rural residential with shop	Blue Ridge Drive, off east side of 232nd Dr., south of Hwy. 212
839	545133.1386	5029073.806	nursery	located on the east side of 232nd Dr., north of Blue Ridge Dr.

Notes:
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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
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Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
840	546879.4971	5029107.44	rural residential area	Bartel Rd., south of Hwy. 224
841	546393.4425	5029699.187	rural residential area	Holly View Lane, off north side of Hwy. 212
842	547863.9898	5030337.717	rural residential area	Meier Lane, off 272nd Ave.
843	549012.9101	5030926.779	trucking storage	located at the northeast corner of Dee St. & Hwy. 212
844	548990.3302	5031236.106	commercial development and light truck parts	located on the west side of 282nd Ave., north of Hwy. 212 and Boring
845	549055.9618	5031462.169	rural residential area - nursery	located on 282nd Ave., north of Boring, south of Haley Rd.
846	549780.3642	5022776.903	tree farm	located on the northwest side of Dowty Rd., west of Hwy. 211
847	549878.9604	5022483.917	nursery	located on the south side of Dowty Rd., west of Hwy. 211
848	548972.8638	5022306.809	Soloran Tree Farm	located on Dowty Rd., northeast of Blay Rd., west of Hwy. 211
849	547339.602	5021644.393	Bonnie Lure State Park	Logan area, off Eaden Rd., east of Springwater Rd.
850	549218.0454	5020969.643	livestock	located on the east side of Dowty Rd., north of Folsom Rd.
851	549228.0958	5019505.775	Weedin Nursery	located on the south side of Folsom Rd., at Dowty & Folsom Rd. intersection
852	549903.0273	5019745.617	tree farm	located on the south side of Folsom Rd., west of Hereford Ln.
853	551438.3861	5019862.117	rural residence - large estate	located on the north side of Currin Rd., east of Hwy. 211
854	552001.0887	5019376.344	livestock	located on the south side of Currin Rd., east of Hwy. 224, west of Wallace Rd.
855	552826.64	5019257.119	managed forest lands - clearcut area	located on the north side of Currin Rd., west of Five Oaks Rd.
856	553008.1671	5019023.675	Christmas trees - livestock	located on the south side of Currin Rd., between Wallace & Five Oaks Rd.
857	553838.4836	5018579.628	Angel Acres Tree Farm	27770 Currin Rd., on the south side of Currin Rd., north of Estacada Airport
858	554813.6251	5015197.893	managed forest lands - clearcut area	located at the northeast corner, at the intersection of Copeland & Currin Rd.
859	554682.5785	5015206.38	tree farm	located at the northwest corner of Coupland & Currin Rd. intersection

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TABLE 4. SPATIAL COORDINATES OF POTENTIAL CONTAMINANT SOURCES

PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
PWS # 4100187 CLACKAMAS RIVER WATER - CLACKAMAS

Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
860	554810.5827	5015098.113	nursery	located on the south side of Coupland Rd., just east of Currin Rd. intersection
861	556163.323	5015245.619	junk yard - livestock	located on the south side of Coupland Rd., south of Tracy Rd. intersection
862	556132.8265	5015425.158	nursery, foodcrops - berries	located at the intersection of Tracy & Coupland Rd.
863	556499.2754	5015454.974	Christmas trees	Coupland & Divers Rd., on north & south side Coupland, on west side of Divers
864	556613.3409	5015383.778	grange	33460 Divers Rd.
865	556534.9753	5013880.887	nursery	located on the west side of Divers Rd., just north of Kemp Rd.
866	556520.088	5013351.508	Christmas trees	located on the west side of Divers Rd., across from Porter Rd. intersection
867	557551.7225	5012187.754	clearcut area	Lacy Ln., located on the north side of Squaw Mountain Rd., east of Divers Rd.
868	562428.7908	5011110.361	managed forest lands - clearcut area	Porter Rd., area to southeast including all hills
869	561843.4555	5011816.473	culverts - double	located on the west side of Porter Rd., north of Squaw Mountain Rd.
870	561983.3312	5011828.379	Roarks Handyman	located on the east side of Porter Rd., near stream crossing
871	561239.5278	5012482.688	Mennonite Church	located on the south side of Porter Rd., in the town of Porter
872	560316.8797	5012625.759	Christmas trees	located on Porter Rd., at the west end of town, west of Randall Rd.
873	560530.1894	5013285.906	Christmas trees	Bouman Rd./Buzz Rd. - east of Doyle Rd., off Porter Rd.
874	558681.6925	5013159.178	Massau Stock Farms	located on the south side of Porter Rd., west of Doyle Rd.
875	557611.9256	5014293.712	tree farms	Peaceful Lane - located off east side of Coupland Rd., north of Porter Rd.
876	557482.2314	5013441.633	tree farms	located on the west side of Coupland Rd., north of Porter Rd.
877	557101.6223	5014690.554	tree farms	located on the west side of Coupland Rd., north of Peaceful Lane

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Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
878	557247.441	5014757.209	managed forest lands	located on the east side of Coupland Rd., north of Peaceful Lane
879	556107.1501	5015656.365	junk yard	located on the west side of Tracy Rd., south of Linde Lane
880	560787.6259	5015799.709	Cascade Motor Repair	located on the south side of George Rd., west of Rainbow Rd.
881	560336.5097	5015856.617	George Community Church	located on the north side of George Rd., west of Belfils Rd.
882	561082.4865	5015588.941	Christmas trees	located on the south side of George Rd., west of Rainbow Rd.
883	561874.9864	5014170.943	Eagle Creek Fish Hatchery	located on the west side of Rainbow Rd., off the south side of George Rd.
884	563169.2749	5015351.065	commercial forest lands	George Rd. to Bissell Rd.
885	563111.1105	5016522.979	agricultural area - farms	Clausen Rd., north of George Rd.
886	559654.4756	5016584.752	Fire Station	located at the northeast corner of Clausen & Gruberrd Rd.
887	555785.5001	5018802.949	Eagle Fern Park	located off west side of Eagle Fern Rd., south of Wildcat Mountain Dr.
888	560428.7262	5019772.537	Dover Community Church	located on the east side of Kitzmiller & Kleinsmith Rd. intersection
889	560279.6417	5019902.104	nursery	located on the north side of Kleinsmith Rd., north of Kitzmiller Rd.
890	555856.6152	5020124.211	clearcut area	Wildcat Mountain Road
891	551224.5732	5020821.632	commercial buildings	located on west side of Eagle Creek Rd., between Creekside Ln. & Riverside Way
892	551235.8175	5020693.331	abandoned plywood mill	located on west side of Eagle Creek Rd., between Creekside Ln. & Riverside Way
893	551317.4646	5020595.535	Eagle Creek Four Square Church	located on the east side of Eagle Creek Rd., south of Wildcat Mountain Dr.
894	551310.8044	5020345.052	Eagle Crest Mobile Estates	25800 Eagle Creek Rd., located on the east side of the road, north of Currin Rd.
895	551271.8035	5020214.908	Eagle Creek Inn Restaurant	located on the east side of Eagle Creek Rd., north of Currin Rd.
896	551260.7704	5020107.264	old gasoline station	located on the east side of Eagle Creek Rd., north of Currin Rd.

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PWS # 4100591 – OREGON CITY SOUTH FORK WATER BOARD
PWS # 4100580 – NORTH CLACKAMAS COUNTY WATER COMMISSION, and
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Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
897	551519.2525	5018913.468	Hartman Equine Adventures	located on the east side of Eagle Creek Rd., north of Heiple Rd.
898	551503.7624	5018712.403	Currin Creek Excavation	located on the east side of Eagle Creek Rd., just north of Currin Ck. & Duus Rd.
899	551445.1806	5018295.711	Horse Hospital	28255 Eagle Creek Rd., located on the west side of the road, south of Ely Rd.
900	551537.6377	5018312.869	junk yard	located on the east side of Eagle Creek Rd., south of Ely Rd., north of Duus Rd.
901	551526.6044	5018205.225	mobile homes	located on the east side of Eagle Creek Rd., south of Ely Rd., north of Duus Rd.
902	551522.3618	5018104.8	Sunrise Market	located on the east side of Eagle Creek Rd., south of Ely Rd., north of Duus Rd.
903	551449.4684	5017916.611	tack shop	located on the west side of Eagle Creek Rd., near Duus Rd. intersection
904	551750.8702	5017890.169	Christmas trees	located on the south side, at the west end, of Duus Rd., off Eagle Creek Rd.
905	551964.8529	5017911.047	farm	located on the south side, at the west end, of Duus Rd., at Currin Ck. Crossing
906	552139.704	5018045.045	Christmas trees	located on the north side of Duus Rd., east of Currin Creek crossing
907	552415.7579	5017910.521	McClain Farm - livestock	located on the south side of Duus Rd., at intersection of Barger Blvd.
908	553117.4168	5017187.862	Valley View (Estacada) Airport	located on the south side of Duus Rd., between Eagle Creek & Currin Rd.
909	553995.9469	5017708.31	rural residential area	located on the north side of Duus Rd., west of Shoregorick Rd.
910	553857.4741	5017561.096	Christmas trees	located on the south side of Duus Rd., west of Shoregorick Rd.
911	554154.1993	5017677.488	Mountain View Mobile Court	located on the north side of Duus Rd., across from Shoregorick Rd.
912	554173.5311	5017543.945	nursery	located on the west side of Shoregorick Rd., at Duus Rd. intersection

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Reference No. (see Table 3)	UTM(1) X-Coordinate	UTM(1) Y-Coordinate	Potential Contaminant Source Name	Approximate Location
913	551541.2007	5017678.587	Estacada Christian Church	located on the west side of Eagle Creek Rd., south of Duun Rd.
914	551571.6984	5017578.616	Clackamas Valley Baptist Church	located on the west side of Eagle Creek Rd., south of Duus Rd.
915	551634.6803	5017612.553	Peace Lutheran Church	located on the east side of Eagle Creek Rd., south of Duus Rd.
916	551818.5866	5017142.007	Christmas trees	located on the east side of Eagle Creek Rd., north of River Mill & Hinman Rd.
917	551631.1367	5017429.535	Estacada Body & Paint	located on the west side of Eagle Creek Rd., north of River Mill Rd.
918	551756.8382	5017057.807	Clackamas Towing	located on the west side of Eagle Creek Rd., north of River Mill Rd.
919	551849.914	5017014.929	Jehovah's Witness Kingdom Hall	30424 Eagle Creek Rd., near River Mill Rd. intersection, on the east side of Rd.
920	551718.3868	5016969.443	Church of Latter Day Saints	30498 Eagle Creek Rd., located near intersection of River Mill & Eagle Creek Rd.
921	556141.8236	5015897.956	farm machinery	located on the east side of Tracy Rd. at Linde Ln.
922	555994.4743	5016498.576	dump trucks	located on the east side of Tracy Rd. at Rhodes Rd.
923	555618.1018	5017440.018	livestock - cattle	located at the northeast corner at the intersection of Snuffin & Davis Rd.
924	556716.4766	5017113.013	Eagle Fern Camp	located at the intersection of Snuffin & Camp Rd.
925	558068.3651	5016909.922	clearcut area	located on the east side of George Rd., south of Jannsen Rd.
926	558855.3643	5016238.351	livestock - horses	located on the east side of George Rd., northwest of Clausen Rd.
927	559229.7558	5015998.923	Christmas trees	town of George - located on the east side of George Rd., south of Clausen Rd.
928	560083.1736	5015677.224	George Fire Station / Substation	town of George - located on the south side of George Rd., south of Clausen Rd.

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